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INTRODUCTION

Foreword

Having the right skills is essential in all walks of life.

And skills don't come much more important than health and safety, which is why this publication is one of the most important resources CITB produces.

The aim of this revision book is simple – to help construction workers pass their CITB *Health*, *safety and environment (HS&E) test for managers and professionals*.

Workers who pass the test are highly valued by their employers, colleagues and the industry at large, because it confirms that they have the certified skills to keep themselves – and those around them – safe.



Making sites safe is the responsibility of everyone in construction. Your engagement and leadership are essential to achieving that goal.

Pressures

Construction, by its nature, is a hazardous industry. There's no getting away from that.

While the sector offers fulfilling, well-paid jobs, the pressures of working in our industry can take a heavy toll. Physical and mental illness, and accidents, are all too common.

Figures from the Health and Safety Executive show that construction accounted for nearly a quarter of the 123 work-related fatalities in 2021–2022. Although the number of site fatalities has fallen since last year, more needs to be done to reduce the figures still further.

The mental health statistics for construction are grim, too. The workplace mental health charity Mates in Mind states that over 700 construction workers take their lives each year.

Construction workers and their families should not have to endure this amount of work-related worry, heartache and tragedy.

Responsibility

My CITB colleagues are often asked why managers and professionals must test their knowledge of all areas of health and safety, not just those specific to their role. The reason is clear: construction engineers, architects and managers have a high level of responsibility – and a moral duty – for health and safety.

Even though they do not set people to work on site, and there is often no contractual responsibility for the conduct or management of the site, managers and professionals must know the risks of construction activities, and be equipped with the skills to make their voices heard.



Support

CITB is striving to improve health and safety in the construction industry.

Our Business Plan, published in May 2022, shows how we will support health and safety in construction in the future. For example, it gives details about how we will help industry address the challenge of a new building safety regime. We will work to ensure that those involved in design or building work can do their job effectively.

In terms of mental health, CITB is undertaking several initiatives. We are working with the Lighthouse Club to train mental health first-aiders and instructors. We're also partnering with Samaritans to make mental health support accessible to small and medium-sized construction employers, and we're establishing a commission to support apprentices' mental health as they commence their journey into construction.

This work will follow our £90,000 investment, announced in September 2022, to fund a pilot scheme providing mental health support for apprentices from the start of their construction careers.

Benefit

I'd like to thank everyone who has shared their health and safety expertise to develop both the CITB Managers and Professionals HS&E test and this revision book.

I hope you pass the test, and that you put your learning to good use.

The skills you acquire will help you advance in your construction career and, just as importantly, benefit your fellow workers, their families and the public.

Let's keep looking out for each other in the workplace.

Tim Balcon

CITB Chief Executive

The Lighthouse Club can be contacted via email at info@lighthouseclub.org or by phone on 0345 609 1956. Samaritans can be contacted at any time from any phone for free on 116 123.

INTRODUCTION

About this book

This book has been created to help you revise for your Health, safety and environment test. It contains questions that could appear in your test, making it an invaluable resource in helping you pass. It also includes information about how to book your test, any special assistance that is available, and other helpful topics.

To help you get the most from the book, it has been designed for you to use as a workbook. You can test yourself by marking your answers in the book, and then checking these against the correct answers at the back of the book.

About the test

The CITB Health, safety and environment test helps to raise standards across the industry. It ensures that workers at all levels meet a minimum level of health, safety and environmental awareness before going on site.

The test structure has been designed to enable you to demonstrate knowledge across the following key areas.

Section D: High risk activities

Section F: Specialist activities

Section E: Environment

Section A: Legal and management

Section B: Occupational health,

wellbeing and welfare

Section C: General safety

Section A: Legal and management

Section A. Legal and management

General responsibilities: what you and your employer need to do to ensure that everyone is working safely on site.

Accident prevention: Understand how human, occupational and environmental factors influence accidents.

Construction (Design and Management) Regulations 2015 (CDM): Understand the principal responsibilities under the regulations.

Section B: Occupational Health, wellbeing and welfare

Occupational health and welfare: Understand common construction-related health issues and diseases, and how to mitigate them through the provision of control measures, communication, training, co-ordination and welfare provision.

First aid and emergency procedures: Understand the legal considerations for first aid and emergencies, and what must be made available.

Personal protective equipment: Understand why personal protective equipment (PPE) is always considered the last resort, and the duties and responsibilities.



Dust and fumes (respiratory hazards): Understand how to work safely, protect workers from exposure to respiratory hazards, and the range of health conditions that may arise from exposure to dust and fumes.

Noise and vibration: Understand the risks of excessive noise and vibration in the workplace, and suitable controls.

Hazardous substances: Understand the importance of protecting the workforce from exposure to hazardous substances.

Manual handling: Understand why it is important to handle all materials (loads) correctly, and in compliance with safe systems of work.

Section C: General safety

Safety signage and symbols: Understand the categories of safety signage, as required by the Health and Safety (Signs and Signals) Regulations 1996.

Fire prevention and control: Understand the legal responsibilities for the management of fire risk and prevention on site.

Electrical safety, tools, equipment, lasers and drones: Understand the requirements for and effective use of electrical safety in a construction environment.

Site transport safety and lifting operations: Understand the principles of achieving the safe movement of vehicles, mobile plant, pedestrians and suspended loads on site.

Section D: High risk activities

Working at height: Understand the risks associated with working at height and appropriate mitigation measures.

Excavations and confined spaces: Understand how to work safely in a confined space or excavation.

Section E: Environment

Environmental awareness and waste control: Understand how waste should be managed, and how to conserve energy and resources.

Section F: Specialist activities

You will also be asked questions on the specialist activities of demolition and highway works.

How is the test structured?

All tests last for 45 minutes and have 50 knowledge questions. To pass, you need to answer at least 45 out of 50 questions correctly.

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What is a knowledge question?

The knowledge questions cover 17 core areas and two specialist areas that are included in all of the tests. All of the questions are factual, and based on current HS&E areas that impact the construction and built environment sectors. For example, they will ask you to identify risk assessment controls.

You do not need to have an in-depth knowledge of every section of the various statutory regulations that underpin HS&E. However, you do need to evidence that you understand the importance of legislative compliance, what is required of you as a manager or professional, and what you must do (or not do) in certain circumstances - for example, what must be followed in relation to an accident or emergency on site.

Many of the questions refer to the duties of employers. In law, the self-employed can have the same legal responsibilities as employers. To keep the questions as brief as possible, the content only refers to the duties of employers, but the questions apply to both.

Legislation in Northern Ireland and Scotland differs from that in the rest of the UK. For practical reasons, all candidates (including those in Northern Ireland and Scotland) will be tested on questions using legislation relevant to the entirety of the UK only.

There are four different styles of knowledge question that may be presented within your test. These are explained below.

Multiple choice and multiple choice with images

A multiple-choice question will ask you to select one or more answers from a list of options. Some answer options may also contain images.

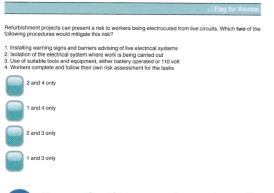


A reasoned judgement question requires you to select one answer from the possible options; these include not only the correct answer, but also the reason for the selection.





An option selection question requires you to review the options within the question and then select one answer containing the correct combination.





To practise these question styles online, visit www.citb.co.uk/hsandetest

Who writes the questions?

The question bank is developed by construction health and safety experts alongside assessment and question-writing specialists.

We also work closely with key industry stakeholders to ensure that the content covered in the test is fit for purpose.

Will the questions change?

HS&E legislation, regulations and best practice will change from time to time, but CITB makes every effort to keep the test and the revision material up to date.

- You will not be tested on questions that are deemed to be no longer current
- You will be tested on knowledge questions presented in the most up-to-date edition
 of the book. To revise effectively for the test you should use the latest edition. You can
 check which edition of the book you have at www.citb.co.uk/hsandetest or phone
 0344 994 4488.

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Preparing for a test

To pass your *Health*, *safety and environment test for managers and professionals*, you need to demonstrate advanced knowledge and a broad understanding of HS&E compliance within a construction working environment. The test itself is broken down into sections, so that knowledge across all key areas can be demonstrated. The revision material is specifically aimed at managers and professionals, and includes topic-related questions that are in the test.

Along with studying this book, there are a number of other ways you can prepare for the test and increase your success.

Revision material		Managers
0	Watch Setting out	This video will help you prepare for the behavioural elements that are embedded in the test questions: www.citb.co.uk/hsandetest
Ō	Use the digital products	HS&E test for managers and professionals – Download (GT200 DL) – App
0	Read supporting knowledge material	Construction site safety – The comprehensive guide (GE700)
Complete an appropriate training course		Site Safety Plus – five-day Site management safety training scheme



Where can I buy additional revision material?

CITB has developed a range of revision material, including this book, such as downloads and a smartphone app that will help you to prepare for the test. For further information, and to buy these products:



visit shop.citb.co.uk



call 0344 994 4488



visit retail outlets or online for books. Visit the Apple App store or the Google Play store for smartphone apps



for further products and services that CITB offers, visit citb.co.uk

What's on the app and download?

The app and download offer an interactive package that includes:

- the Setting out film
- all of the knowledge questions and answers in both book and practice format
- a test simulator all of the functionality of the test with the real question bank
- voice overs in English for all questions.

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Booking a test

The easiest way to book your test is online. You should be able to book a test at your preferred location within two weeks. You will be given the date and time of your test immediately, and offered the opportunity to buy revision material (for example a book, download or app).

To book your test:



visit www.citb.co.uk/hsandetest



call 0344 994 4488 Welsh booking line 0344 994 4490

When booking your test, it is important that you check the details (including the type of test, the location, the date and time and what ID is required at the test centre), and follow any instructions given regarding the test.

If you do not receive a confirmation email within two hours, please call the booking line to check that your booking has been made.

What information do I need to book a test?

To book a test you should have the following information to hand:

- Which test you need to take
- Whether you require any special assistance (see below)
- Your chosen method of payment (debit or credit card details)
- Your personal details
- Your CITB registration number, if you have taken a Health, safety and environment test before or applied for certain card schemes.

What additional support is available when taking the test?

Language support

The test can be booked with an English voiceover or on-screen Welsh translation. Further details of support available can be found on the CITB website.

How do I cancel or reschedule my test?

To cancel or reschedule your test, you should go online or call the booking number at least 72 hours (three working days) before your test. There will be no charge for cancelling or rescheduling the test online at www.citb.co.uk/hsandetest outside of the 72-hour period. Reschedules and cancellations made via the telephone booking line will incur an administration fee.

Your test fee will not be refunded if you cancel your test less than 72 hours before the test date.

Taking a test

On the day of the test you will need to:

- allow plenty of time to get to the test centre, and arrive at least 15 minutes before the start of the test
- take your confirmation email or letter
- take proof of identity that includes your photo and your signature (such as a driving licence card or passport) – a full list of these requirements can be found on your booking confirmation or online at www.citb.co.uk/hsandetest.

On arrival at the test centre, staff will check your documents to ensure that you are booked onto the correct test. If you do not have all the relevant documents, you will not be able to sit your test and you will lose your fee.

During the test

The tests are all delivered on a computer screen. However, you do not need to be familiar with computers, and the test does not involve any typing. All you need to do is select the relevant answer(s), using either a mouse or by touching the screen.

Before the test begins, you will work through a tutorial. It explains how the test works, and lets you try out the buttons and functions that you will use.

There will also be information displayed on the screen which shows you how far you are through the test, and how much time you have remaining.

After the test

At the end of the test there is an optional survey, which gives you the chance to provide feedback on the test process.

You will be provided with a printed score report after you have left the test room. This will tell you whether you have passed or failed your test, and give feedback on areas where further learning and revision are recommended.

What do I do if I fail?

If you fail your test, your score report will provide you with information on the areas where you got questions wrong.

It is strongly recommended that you revise these areas thoroughly before re-booking. You will have to wait at least 48 hours before you can take the test again.

What do I do if I pass?

Once you have passed your test, you should consider applying to join the relevant card scheme, if you have not done so already. However, please be aware that you may need to complete further training, assessment and/or testing to meet specific entry requirements.

Your score report will also include any areas of the test in which you answered questions incorrectly. It is important that you improve your knowledge in these areas.

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To find out more about many of the recognised schemes, visit



www www.citb.co.uk/cards-testing/

Fraudulent testing

If you are aware of any fraudulent activity in the delivery of your test, or relating to cards or training in the construction industry email our fraud investigation team at:



report.it@citb.co.uk

CITB takes reports of fraud linked to our testing processes extremely seriously. Working with the Police and other law enforcement agencies, we are doing everything we can to address the issue. Where possible, we always prosecute those engaged in any fraudulent activity.





Legal and management

01	General responsibilities	14
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01 General responsibilities

1.01	Which one of the following is a notice that has to be legally displayed on a notifiable building project?	1.04	Which of the following two duties must a manager ensure is carried out on their site under the Health and Safety at Work etc. Act 1974?
A	A notice to stakeholders to erect site boundary hoardings		
В	A notice of the principal contractor's health and safety policy	A	All workers work safely and independently from each other in their work
C	A notice carrying the specified project information		There is a specific number of
D	A notice of health and safety policy statement from the client	B	near misses that are recorded every month
1.02	To comply with general site requirements, how long must inspection records be retained for?	0	Any health and safety issues raised on site are reported to the HSE
A	For 3 months after an inspection has been carried out		Co-operation between all workers
В	For 6 months after an inspection has been carried out	D	on site is ensured for all health and safety matters
C	For 3 months after the project has been completed		All workers exercise care for
D	For 6 months after the project has been completed	E	themselves and others while carrying out work
		4.0.7	Tatle 1
1.03	You are a contractor on a notifiable project and have not seen the F10 notification form. Which two of the following actions must be taken?	1.05	Who is responsible for ensuring that there is suitable welfare facilities on site before any work starts?
A	Ensure that the client is aware of their duty to submit an F10	A	The designer
B	Ensure the CDM Coordinator has submitted the form F10	B	The principal designer
C	Work within your brief and ignore the lack of F10 notification		The Health and Safety Executive
D	Ensure a form F10 is submitted to the local health authority		(HSE)
E	Ensure the client completes and submits form F10 to HSE	D	The employer

1.06	Which combination of the following mal Health and Safety Executive?	ke a con	struction project notifiable to the
1	Where work will last more than 500 person days	A	1 and 2 only
2	Where 20 or more people will be working on site at any time	B	3 and 4 only
3	Where 30 or more people will be working on site at any time	0	1 and 3 only
4	Where work will last more than 300 person days	D	1 and 4 only
1.07	Which one of the following can lead to prosecution under sections 33(1), (k), (I) or (m) of the Health and Safety at Work etc. Act 1974?	1.09	Which two of the following can be issued by the Health and Safety Executive or a local authority when a breach of health and safety law
A	Failing to provide a truthful statement to a Health and Safety Executive inspector	A	has occurred? Improvement notice
B	Failing to update the contractors' all risk insurance policy	B	Compliance notice
<u> </u>	Failing to engage with workers concerning their health and safety	©	Letter of authority
	Failing to set up a health and safety	D	Prohibition notice
	committee when requested by two or more persons	E	Indictment notice
1.08	Legislation requires all risk assessments to be?	1.10	Identify one of the key duties of the principal designer.
A	Suitable and detailed	A	To collate construction phase plans, risk assessments and method statements
B	Suitable and comprehensive	B	To record the health and safety performance during the construction phase of the project
<u> </u>	Suitable and sufficient	C	To prepare the health and safety file and revise it when required throughout the project
D	Suitable and technical	D	To collate contract documentation and statistics, risk and method statements

1.11	In accordance with Managing for Health and Safety (HSG65), which three elements would be consistent throughout the project life cycle? Select one correct option from below.		
A	Element 1: Purpose of bringing a legal proceeding concerning health. Element 2: Safety and welfare. Element 3: Information that may affect national security		
В	Element 1: Information relating to work welfare in terms of good health surveill		cupational health. Element 2: Safety and lement 3: Routine check ups
C	Element 1: Leadership and management (including appropriate business processes). Element 2: A trained/skilled workforce. Element 3: Environment where people are trusted and involved		
D	Element 1: Information which would be security. Element 2: Matters concernin Management on site, including sub-co	g healtl	n, safety and welfare. Element 3:
		Indiana	
1.12	Which one of the following lists identify the specific roles that must ensure compliance under the Health and Safety at Work etc. Act 1974?	1.14	General Health and Safety Law emphasises the importance of what is commonly known as the 3 Cs to ensure everyone understands the
A	Planning co-coordinator, client and the self employed		risks and measures to control risk. Is this correct?
B	Employers, the self employed and employees	A	Yes, the employer must co-operate, communicate and co-ordinate to ensure effective health and safety
0	CDM coordinator, employees and employer	***************************************	is achieved
D	Principal designer, employer and the client	В	No, the law talks about 5 Cs which include co-operation, co-ordination, communication, concentration and collaboration to meet the health and
1.13	If found guilty of an offence, which		safety requirements
1,10	sections of the Health and Safety at Work etc. Act 1974 could an employer be in breach of?	Section-decomposited	Yes, the employer must co-operate,
A	Sections 2 to 6	0	collaborate and communicate to ensure effective health and safety is achieved.
B	Sections 2 to 12		
0	Sections 2 to 8	D	No, the principal contractor must co-operate and co-ordinate effective authorisation of work activities to
D	Sections 7 to 8		achieve effective site health and safety

01

1.15	If there is only one contractor on site, to for breaching the general principles of		he following could be held accountable on?
1	The designer	A	1 and 2 only
2	The contractor	B	3 and 4 only
3	The client	0	2 and 3 only
4	The principal contractor	D	1 and 3 only
1.16	Which two of the following regulations require a principal contractor to consult with the workforce about health and safety?	1.17	If an improvement notice is issued by a Health and Safety Executive inspector, when can work continue? Select two answers
A	Safety Representatives and Safety Committees Regulations 1977	A	Once the safe system of work has been reviewed, updated and communicated
B	Safety Representatives (and Trade Unionists) Regulations 1975	B	When the identified breach has been rectified and re-inspected
©	Health and Safety (Consultation with Employees) Regulations 1996	<u> </u>	Once additional health and safety controls have been implemented
D	Safety Representatives and Safety Consultation Regulations 1978	D	Immediately, as long as it relates to ongoing activities; no new work can begin
E	Health and Safety Consultation Management Regulations 1993	los	Immediately, as long as the work activities are not referred to in the notice

1.18	When must a construction phase plan be drawn up under the Construction (Design and Management) Regulations 2015?	1.20	A health and safety inspector has arrived at your site. They have witnessed a groundworker using a disc cutter without water-fed dust suppression and have issued them with a prohibition notice.
(A)	When the project is notifiable		Was this justified?
B	When the construction phase starts		No – the inspector should have issued an improvement notice, since
C	If it is a contractual requirement	A	such work is not an immediate risk to life
	Before the construction phase begins		V - the investment of also sive
			Yes – the inspector would also give the groundworker a verbal warning
1.19	Your company is to carry out refurbishment works on a school that was built in 2011. How would you use	(B)	and advise them of the risk to their health
	the health and safety file as part of the project planning?		No – the inspector should have issued an immediate fine along with
A	To confirm the nature, location and markings of significant services, including underground cables	<u> </u>	the prohibition notice, as a regulation has been breached
B	To identify hazardous procedures that should be eliminated from the project where possible	Đ	Yes – the inspector would also give the groundworker an affidavit to attend court to defend the breach of the regulation
0	To identify hazards that have not been eliminated by the original design and construction processes	noncodelentario	
D	To obtain records and necessary information as to how the original project was designed and built		

1.21	Following a fatality on site, a Health and scene. What would be the first priorities		
1	Take samples, measurements and photographs	A	1 and 2 only
2	Ensure everything in the area is left undisturbed	В	2 and 3 only
3	Prosecute the company for health and safety breaches	0	1 and 4 only
4	Review the risk assessments for the work activity	D	2 and 4 only
1.22	On what basis does the Health and Safety Executive charge companies as part of the fees for intervention (FFI) scheme?	1.24	Under the Construction (Design and Management) Regulations 2015, the general principles of prevention must be applied by contractors.
A	A variable rate for any advice relating to the identified breach		Identify two ways of how this can be achieved
B	A daily rate which is linked to the severity of the identified breach	A	Providing dynamic risk assessments for all site tasks
0	A fixed hourly rate for the time taken to investigate and identify the breach		Tot all site tasks
D	A 'one off' rate for the time taken to investigate and identify the breach	B	Providing suitable and sufficient site inductions
1.23	Site inductions must be reviewed and updated on a regular basis. Why is this important?	©	Evaluating the risks that cannot be avoided
A	To ensure compliance with policies and procedures	-	
В	To align with changing hazards as construction evolves	D	Communicating the construction phase plan to staff
	To meet the continual needs of quality and compliance		
D	To ensure engagement and positive outcomes	E	Adapting to technical advances at every opportunity

1.25	There has been a fatality on site as a result of serious management failings, and the health and safety executive (HSE) prosecution has found direct evidence linking this to an individual site manager. What offence could the individual site manager be found guilty of?
A	Corporate manslaughter and homicide
B	Gross negligence manslaughter
C	Criminal negligence manslaughter
D	Individual negligence manslaughter
1.26	The Health and Safety Executive has made it clear that its enforcement policy is to
A	actively inspect the businesses that are known to be high risk and have previously paid costs for failing to comply with health and safety law
B	recover the costs for time spent carrying out its regulatory functions from those found to be in material breach of health and safety law
C	target those who cut corners to gain a financial advantage over competitors by failing to comply with health and safety law
D	focus on the financial costs and risks of a custodial sentence for those individuals found guilty of serious breaches of health and safety law
1.27	Current sentencing guidelines help judges and magistrates to decide on appropriate sentences for both health and safety and corporate manslaughter offences. Which one of the following is the focus of the guidelines?
A	Examining culpability, and increasing or decreasing the level of fine according to a range of factors
B	Stronger use of custodial sentences for the individuals found to be guilty of serious breaches
0	Unlimited fines where gross failures in the management of health and safety have caused death
D	Assessment of turnover, in order to set a starting point for a fine to reflect seriousness of offences

1.28	A Health and Safety Executive inspector visiting your site has identified work activities on a scaffold platform with no guardrails or edge protection, and operatives using disc cutters without respiratory protective equipment. Which one of the following enforcement actions is the inspector most likely to take?						
A	A formal letter with details of the activity, breaches and action needed to comply with the legislation						
В	A prohibition notice to stop the activity either immediately or at the end of the period specified						
0	An improvement notice outlining the activity, the work required and the date for completion						
D	A prosecution notice informing the emp magistrates' court	loyer th	at it is necessary to prosecute in a				
	1						
1.29	Under the Construction (Design and Management) Regulations 2015, which document must the principal contractor and contractor keep	1.31	In terms of the Plan, Do, Check, Act model, which of the following describes the Do stage?				
	under review?	A	Determine policy and plan for its implementation				
(A)	The health and safety file	B	Measure and profile performance,				
B	The designer's risk assessments		and investigate after events Profile risks, organise for health and				
0	The project programme	(C)	safety, implement your plan				
D	The construction phase plan	D	Measure and review performance, and act on lessons learned				
1,30	In terms of the Plan, Do, Check,						
1.30	Act model, which of the following describes the Plan stage?						
A	Profile risks, organise for health and safety, implement your plan						
В	Determine your policy and plan for its implementation						
	Plan performance, and monitor and investigate events						
D	Review performance, plan, and act on previous lessons learned						

1.32	In terms of the Plan, Do, Check, Act model, which one of the following describes the Check stage?	1.33	Which one of the following is not required to ensure an effective health and safety management system?				
A	To define, communicate acceptable performance and decide what resources are needed	A	Relevant organisational processes				
B	To identify controls, assess risks, and record and maintain process safety knowledge	В	A competent workforce				
	To monitor, measure and review performance before events, and investigate after incidents	C	An environment of trust and engagement				
D	To define, communicate acceptable performance and decide what investment is needed	D	An established culture of team work				
1.34	The continual development of a compa significantly reduce the common caus	-					
A	Yes, as it will identify any shortcomings so appropriate procedures can be implemented						
B	No, as it does not provide adequate information for health and safety improvements						
	Yes, as it will detail the day-to-day management for health and safety matters						
Đ	No, as it will only outline the basic eler	ments of	health and safety				
1.35	An effective health and safety management system includes various elements and practices. Which two would not form part of this system?						
A	Tender documentation						
B	Training and instruction						
0	Health and safety file						
D	Worker involvement						
E	Health surveillance						

1.36	Which two of the following health and safety management principles should be given priority?					
1	Experience and training	A	1 and 2 only			
2	Regular committee meetings	B	3 and 4 only			
3	Leadership and management		1 and 3 only			
4	Supervision and performance	D	1 and 4 only			
1.37	Your company employs 30 operatives etc. Act 1974 (HASAWA), which two crevised as often as may be appropriate	of the follo	art 1 of the Health and Safety at Work wing must be prepared, publicised and			
A	The company statement outlining its health and safety commitment to employees					
В	The implementation plan for the structure of the health and safety management system					
©	The organisation and arrangements for implementing the health and safety policy					
D	The arrangements for measuring performance and managing health and safety risks					
E	The statement of intent of the employer's general health and safety policy					
			16 LP and date			
1.38	Workers, visitors and members of the due to the risk of arc eye. Is this corre		ust be protected from welding activities			
A	No, modern welding techniques have eliminated arc eye risk, therefore no risk to others anymore					
В	Yes, welders must always use welding screens due to the risk of arc eye to protect themselves and others					
0	No, personal protective equipment (I will protect the welder	PPE) will r	emove the risk of arc eye, wearing PPE			
D	Yes, pedestrian walkways will prever PPE will protect the welder	nt individu	als coming into contact with arc eye and			

1.39	Which combination of the following statements are true with regard to permits to work?						
1	It must involve two people, the authorised person and the person doing the work	A	1 and 2 only				
2	It requires one person and only they can complete the works identified on it	B	3 and 4 only				
3	It must be returned to the authorised person for cancellation on completion of the work	0	1 and 3 only				
4	It does not need an authorised person to issue it as the work must be completed	D	2 and 3 only				
1.40	What is a suitable and sufficient risk assessment? Select two options.	1.41	Identify which one of the following contributes to a safe system of work.				
A	A simple analysis of any given task	A	A method statement				
В	A process that eliminates all hazards and risks	B	A Toolbox talk				
0	A method that identifies all foreseeable hazards and risks						
D	A way of eliminating dynamic hazards and risks	<u> </u>	A permit to work				
E	A process that eliminates all unforeseen hazards and risks	D	A site induction				
1.42	Every employer must make a suitable and sufficient assessment of which one of the following?						
A	The number of client and designer representatives based on site, and their exposure to risk						
B	The risk of the financial burden placed directors' dividends	on share	cholders, and the board of				
<u>C</u>	The level of workers' safety knowledge toolbox talks	and ead	h individual's ability to deliver				
	The health and safety risks that their employees are exposed to while they are at work						

1.43	When deciding on the number and location of access and egress points to a site, which one of the following must be considered first?	1.46	Your company is carrying out emergency out-of-hours response work. Staff will be working by themselves, without close or direct supervision. Which two of the
A	Off road parking for cars, vans and visitors		following are key considerations when developing safe systems of
B	Providing access for the emergency services		work for such operations?
<u></u>	Access for heavy vehicles, large goods vehicles	A	Issuing risk assessments and safety briefings to the workers in a site safety pack
D	Site security for weekends and bank holidays	B	Giving training on the completion of the dynamic or point of work risk
1.44	What is the main purpose of a health and safety risk assessment?		assessment
A	To increase mental wellbeing at work	C	Putting appropriate emergency contact arrangements in place in case of an incident
B	To reduce the frequency of inspection by the Health and Safety Executive		Giving training on updating generic
0	To reduce workplace accidents and ill health	(D)	method statements if any changes are identified
D	To increase awareness of accidents and ill health amongst workers	gan final final	Amending and updating risk assessments for a specific location or task
1.45	Which one of the following situations requires a permit to work?		
A	Entry into a workshop		
В	Entry into a quarry		
(C)	Entry into a confined space		
D	Entry into a storage compound		

1.47	Risk assessments do not necessarily need to be carried out by a health and safety professional. Is this correct?						
A	No. Work tasks can presents complex, unusual or technical issues and unforeseen risks, therefore it is necessary to seek the advice of a competent person						
В	Yes. The amount of effort that needs to be put into carrying out a risk assessment should be appropriate and proportional to the nature of the hazard and level of risk						
0	No. It is essential that all high risks are assessed by a competent health and safety professional as they would be familiar with all aspects of the task being assessed						
D	Yes. When the task being assessed is often repeated or is otherwise familiar, simple or routine, managers and supervisors will often be sufficiently skilled						
1.48	According to the Health and Safety Executive (HSE), which one of the following factors relating to health and safety can affect performance and support a management and workforce partnership?						
A	Management and worker partnership based on trust, commitment and positive results						
B	Management engagement with the workforce based on trust, respect and co-operation						
0	Management engagement based on collaboration, cooperation, innovation and respect						
D	Management and worker dialogue and communication to achieve measurable results						
1.49	When an organisation wants to achiev which two of the following must be em		5 5				
1	Trust, respect and co-operation between all stakeholders	A	1 and 2 only				
2	Mutual involvement between management and health and safety representatives	В	3 and 4 only				
3	Commitment from senior management that is linked to overall performance	C	1 and 3 only				
4	Motivational reward and loyalty programmes for all workers	D	2 and 4 only				

1.50	The strategy for managing health and safety in the UK includes genuine management and workforce partnership. Is this true?							
A	No, because the strategy needs to incorporate the supply chain							
В	Yes, because without this the strategy will fail							
0	No, because the strategy also needs to consider unions							
D	Yes, because strategy is linked to high-performing teams							
1.51	A study carried out by the Health and Safety Executive (HSE) found significant errors when reviewing employers post incident risk assessments and highlighted several factors? Which one of the following was identified by this process.							
A	Too much emphasis placed on reducing personal accidents like slips and trips and not enough on preventing major accidents							
В	Not enough emphasis placed on minor incidents as these can often have the most significant outcomes in the workplace							
<u></u>	Too much priority to those measures that protect the whole workforce and not focusing on a medium risk level							
D	Too much priority to low risk and high frequency events as these require significant time and resources to reduce accidents							
1.52	Which two of the following are responsible for promoting a behavioural safety culture?		1.53	When organisations have effective and integrated management and leadership development programmes, which one of the				
A	The Health and Safety Executive			following will be the outcome?				
B	The organisation's shareholders		A	Improved performance management systems				
<u></u>	The entire organisation		В	Access to high-level training courses				
D	The organisation's management systems			Increased levels of employee engagement				
E	The organisation's supply chain		D	Enhanced opportunities for career progression				



1.61 Give two examples of how a principal The rules of health and safety apply 1.58 contractor can ensure construction not only to employees of a company activities are carried out without risks but also to the... to health and safety? general public and local residents Investigate accidents so lessons are learnt general public and self-employed Hold regular site progress meetings people hired by the company Demonstrate good leadership self-employed people and contractors hired by the company Compile all risk assessments local contractors hired by the E Audit the supply chain companies safety groups 1.62 A behavioural safety scheme must Which one of the following is 1.59 more likely to happen if a principal promote supervision as part of good contractor uses contractors and selfleadership in health and safety. employed individuals on a site? Is this correct? A lack of adherence and understanding of the health and safety standards and procedures No, because micro-managing a workforce is often counterproductive A lack of understanding of the and negative worker's health and safety consultation processes A lack of clarity and awareness of the emergency and fire contingency procedures Yes, because the workforce needs A lack of compliance with the supervision and is positive as site's safe systems of work and workers need to be watched risk controls 1.60 Identify one of the duties the self employed must follow according to health and safety law? Yes, because good supervision demonstrates leadership in health They must use their own welfare unit and safety in a positive way and keep it tidy every day on site They must use only their own specific personal protective clothing on site They must not cause harm or injury No, because there is sufficient staff to others when on site to supervise employees and the workforce is competent They must use only battery operated

hand tools and equipment on site

1.63	Which two of the following must princip and safety is continually monitored on a	pal contractors put in place to ensure health a project?				
1	Routine inspections due to the changing work environment	A 1 and 3 only				
2	Review of approved suppliers	B 1 and 2 only				
3	Prompt investigation of near-miss incidents	② 2 and 3 only				
4	Revision of site policies on an annual basis	1 and 4 only				
1.64	Why is it important to include workers i they will be undertaking?	n the risk-assessment process for a task that				
A	It will make them more likely to follow any risk-control measures					
В	It will help them to complete the task within the specified time frames					
0	It will lead to a significant reduction in task-specific accidents					
D	It will help them appreciate the importance of following rules					
1.65	When selecting suitable contractors fo	r work on a construction project, which of the r the contractor is complying with their duties				
	under health and safety law?	, , , ,				
1	Existing risk assessments from previous similar projects	A 1 and 2 only				
2	An independent third-party assessment of their competence	1 and 3 only				
3	Evidence of any prior accidents and cases of ill health	© 2 and 4 only				
4	Membership of a trade association or professional body	3 and 4 only				
-						

02 Accident prevention

2.01	Which form number must be submitted to the enforcing authority for a reportable occupational disease?	2.03	Under the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR), which two of the following must be	
A	2508		actioned if an employee has broken their toe whilst on site?	
В	2518	A	The employee must record their injury and details in the site accident book	
0	2508A			
D	2508B	B	The employer must report the injury under RIDDOR within 10 days of the accident occurring	
2.02	Which one of the following occupational diseases does not need to be reported under the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR) 2013?	C	The employee must inform their supervisor immediately and go to hospital for medical treatment	
A	Carpal tunnel syndrome	D	The employer must report under RIDDOR if the employee is away from work for over seven days	
B	Hand-arm vibration syndrome			
<u> </u>	Noise-induced hearing loss	E	The employer must ensure injury- specific toolbox talks are conducted	
D	Tendonitis of the hand/forearm		with all sub-contractors	
		2.04	Which reporting form must be completed by the responsible person after a dangerous occurrence was discovered to be caused by a gasway not being sealed off correctly?	
		A	F2508	
		В	F2508G2	
		0	F2508A	
		D	F2508G1	

2.05	Which of the following are the main reasons why construction-related accidents and incidents are recorded in line with the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR) 2013?					
1	To aid the development of risk-control solutions	A	1 and 2 only			
2	To analyse the data for budgetary control	В	1 and 3 only			
3	To control all associated costs to the business	0	2 and 3 only			
4	To enhance the opportunities for repeat business	D	3 and 4 only			
ESCAN NACES						
2.06	Which two types of injuries must be reported to the Health and Safety Executive (HSE) under the Reporting	2.08	Health surveillance records must be kept for a minimum of			
	of Injuries, Diseases and Dangerous Occurrences Regulations (RIDDOR) 2013?	A	10 years			
A	Broken fingers	B	20 years			
B	Specified injuries					
<u></u>	Over seven-day injuries	C	30 years			
D	Over three-day injuries					
E	Broken toes	D	40 years			

2.07

Is it true that all sub-contractors must notify the main/principal contractor and the relevant enforcing authority of any reportable accidents?

Yes, as these are the legal duties of

No, they only need to inform their

Yes, because accurate records need

No, as this only needs to be done if the accident resulted in a fatality

responsible persons

immediate supervisor

to be kept by both parties

	Fires or explosions that cause work to be stopped for 12 hours Accidents requiring hospital treatment for non-workers Plant or equipment coming into contact with underground cables Collapse or failure of load-bearing parts of lifting equipment Which of the following are examples of it appropriate enforcing authority (either that is required by the Reporting of Injuries, Regulations 2013 (RIDDOR)?	the near	est HSE office or the Local Authority),
2.10	Plant or equipment coming into contact with underground cables Collapse or failure of load-bearing parts of lifting equipment Which of the following are examples of it appropriate enforcing authority (either that as required by the Reporting of Injuries,	items tha	2 and 3 only 2 and 4 only at must be reported directly to the est HSE office or the Local Authority),
2.10	contact with underground cables Collapse or failure of load-bearing parts of lifting equipment Which of the following are examples of it appropriate enforcing authority (either that is required by the Reporting of Injuries,	items tha	2 and 4 only at must be reported directly to the est HSE office or the Local Authority),
	Which of the following are examples of it appropriate enforcing authority (either that as required by the Reporting of Injuries,	items tha	at must be reported directly to the est HSE office or the Local Authority),
	appropriate enforcing authority (either that as required by the Reporting of Injuries,	the near	est HSE office or the Local Authority),
	An employee hits an underground electric cable while operating a road-breaker, causing damage to the	A	1 and 2 only
2	An employee of a sub-contractor is informed by their doctor that they are suffering from work-related vibration white finger (VWF)	B	2 and 4 only
3	A directly-employed person crushes their hand between two pallets that are being lifted, and breaks three fingers and a thumb	C	1 and 3 only
4	An employee bangs their head and is temporarily knocked unconscious,	D	2 and 3 only

2.11	If an incident was to occur on your site, in line with the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013 (RIDDOR), which of the following woul you be legally required to report to the Health and Safety Executive?					
1	An operative has injuries that will keep them away from work for more than three consecutive days			1 and 3 only		
2	An operative has injured themselves ir and will spend the next 24 hours in ho		h,	2 and 3 only		
3	An operative has injured themselves b crushing both of their hands, and has fractured fingers	0	2 and 4 only			
4	An operative has injuries that will keep them away from work for more than se consecutive days	D	3 and 4 only			
2.12	Latent health and safety failures are ca directly involved in operational activitie	used by es. Is this	the actions correct?	s of individuals who are not		
A	Yes. A latent failure does not impact on the day-to-day health and safety processes					
B	No. Latent failures involve frontline workers who have breached health and safety some time ago					
	Yes. Latent failures occur when management fails to act on a health and safety issue					
D	No. Latent failures cause significant sh the business	nort and	long-term	financial costs to		
		0.44	TI	lib. and Cafatu Evenutive		
2.13	Older workers (those over 50) who have been doing the same job for a long time are often more likely to become injured. Is this correct?	2.14	identifie	Ith and Safety Executive s three main categories of errors. These are		
A	Yes, as they can become overfamiliar and complacent	A	routine,	situational and exceptional		
B	No, as ongoing training would make sure they know the risks	B	slips, lap	oses and mistakes		
(C)	Yes, as their knowledge becomes outdated and new risks emerge		slips, tri	ps and falls		
D	No, as they would always act in a safer manner due to experience	D	lapses,	mistakes and violations		

02

2.15	Identify what two things an employer m has commenced working onsite.	ust prov	ide to a new starter once the person
1	Refresher training to make sure new skills are being used on the job	A	1 and 2 only
2	Continuance training to enable them to progress their competence	B	2 and 3 only
3	Team working training to show them how they fit into the team dynamic		3 and 4 only
4	NVQ diploma to prove that the employer is an investor in training	D	1 and 3 only
2.16	Why is a construction worker in the older age group demographic who also has considerable site	2.18	Young persons (those under 18) are more likely to become injured on a construction site. Is this correct?
	experience at a higher risk of injuring themselves? Select two reasons.	A	Yes, they have more of a risk-taking attitude than experienced workers
A	Slower reaction times	В	No, they are supervised by a competent person while completing
B	Reduced reliance on constant supervision		all work
0	A risk-averse attitude	C	Yes, they are not trained to the minimum level to be able to work safely
D	Overfamiliarity with the work		No, they receive the same induction
E	Weaker immune system	(D)	and training as new starters to work safely
2.17	How can site managers help to reduce the number of 'situational violations' occurring on a project?	2.19	Historically, which type of accident kills the most construction workers?
	Increase routine monitoring	A	Falling from height
B	Improve the design of jobs	В	Contact with electricity
0	Provide more training for emergencies	0	Being run over by site transport
D	Make procedures relevant and practical	D	Being hit by a falling object

2.20	To ensure that health and safety is not 'job factors' on a site have been considerall activities?	being Iered a	con t all	npromised, how would you show that worker levels and throughout
1	By implementing safe systems of work	A)	1 and 2 only
2	By introducing effective communication methods	В)	2 and 3 only
3	By identifying any disabilities or medical conditions	C)	1 and 4 only
4	By ensuring adequate time and resources are available	D)	3 and 4 only
2.21	Before employing a young person to work on site, which two of the following factors should an employer	2.2	22	Which one is not a benefit of accident investigations?
	consider when assessing the risks to the young person's health and safety?	A	0	Understanding how and why things went wrong
A	Overfamiliarity with the job or work process involved	В)	Gaining a realistic snapshot of how work is really done
		(0	9	Identifying errors in the management of risk control
B	Type of work equipment involved and how it is used		D	Improving internal and external communications
	and now it is ased			
		2.	23	Who is responsible for recording an accident in the accident book?
	Slowness of reactions and manual effort required	(A	D	Safety advisor
(D)	Potential for exposure to extreme	Œ	3)	Contractor supervisor
	cold or heat	_ (D	Injured person
E	General levels of strength, hearing and eyesight		D	Project manager
		-	THE OWNER OF THE OWNER, WHEN	

2.24	Identify which one of the following is a true statement. The level of accident investigation must be	2.27	Which one of the following is the least important when investigating a major accident?
A	proportionate to the seriousness of the accident	A	Establishing the full sequence of events
В	resourced according to the complexity of the accident	В	Inspecting plant for defects
C	substantial compared to the size of the accident	0	Identifying types of evidence
D	significant compared to the cost of the accident	D	Updating company reporting procedures
2.25	Which one of the following must be identified in an accident investigation to ensure it does not happen again?	2.28	Which of the following is the least important reason for recording all accidents?
A	The immediate causes	A	To prevent similar accidents from reoccurring
В	The underlying causes	В	To report specified injuries to the Health and Safety Executive (HSE)
©	The root causes	C	To add them to the accident book
D	The organisational causes	D	To prosecute the person responsible
2.26	Reviewing previous near miss and accident reports can improve safety performance. Is this true?		
A	Yes, because they identify areas where improvement can and must be made		
В	No, because acting on everything takes a large amount of time and resource		
<u> </u>	Yes, because near misses are often inexpensive to resolve and can impact on safety		
D	No, because looking at past incidents would lower staff and team morale		
Section Section 5			

as possible

2.29	An incident with the potential to cause harm must be reported to the Health and Safety Executive as a dangerous occurrence, according to the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013 (RIDDOR). Which one of the following is an example of such an incident?
A	Collapse or overturn of load-bearing parts of a forward-tipping dumper
В	Mobile scaffold tower coming into contact with overhead power lines
<u></u>	Explosion or fire that causes work to be stopped for more than 12 hours
D	Plant or equipment coming into contact with underground electricity cables
2.30	A completed accident investigation report should be as near as possible to which of the following?
A	Comprehensive - including full details of all the data and information obtained
B	Concise - based on all witness interviews and the types of evidence identified
0	Comprehensive - based on facts and the essential information obtained from witness statements
	Concing based on facts rather than speculation unhiased and as accurate

03	Construction (Design and Ma	nagem	nent) Regulations 2015 (CDM)
3.01	Which one of the following is a client duty under the Construction (Design and Management) Regulations 2015?	3.03	Under the Construction (Design and Management) Regulations 2015, which one of the following is a duty of the principal designer?
A	Allow sufficient time and resources for all project stages	A	To allow satisfactory time and resources for all project stages
В	Provide information on remaining project risks	B	To make sure welfare arrangements are provided
	Estimate the time required to	0	To ensure everyone involved in the project is competent
	complete work stages	D	To estimate the timescales needed to complete work stages
\bigcirc	Review and update the health and		
	safety file	3.04	A principal contractor has successfully won a bid to design
3.02	Under the Construction (Design and Management) Regulations 2015, which one of the following must all duty holders fulfil?		and build a shopping centre, and wi need more than one sub-contractor working on the project. In line with the Construction (Design and Management) Regulations 2015, which one of the following must the contractors comply with?
(A)	Co-operation with each other	A	The estimated timescales given to complete the work stages
B	Collaboration with their suppliers	B	The compilation of the construction phase health and safety plan
C	Assessment of project risks	0	The relevant work-related parts of the construction phase plan
D	Planning of their work	D	The design, technical and organisational aspects to plan the work
3.05	A contractor has been appointed and to from external organisations. Which of organisations to gather this information	the follo	d to obtain pre-construction information wing duty holders can approach these
1	Client	A	1 and 2 only
2	Designer	В	2 and 3 only
3	Principal designer	C	1 and 3 only
4	Principal contractor	D	3 and 4 only

3.06	When a principal contractor is appointed under the Construction (Design and Management) Regulations 2015, which of the following would they be responsible for to ensure effective health and safety?		
1	Demonstration of good leadership	A	1 and 2 only
2	Investigation of accidents and sharing lessons learnt	В	2 and 3 only
3	Providing welfare facilities for contractors	0	3 and 4 only
4	Ensuring designers comply with their duties	D	1 and 3 only
3.07	To ensure compliance with the Construction (Design and Management) Regulations 2015, which one of the following dutyholders does not have to comply with the general principles of prevention?		
A	Clients		
B	Designers		
©	Contractors		
D	Principal designers		
3.08	On a construction project involving mo information need to be included in the	ore than o health an	ne contractor, what types of nd safety file?
1	Removal or dismantling of installed plant	A	1 and 2 only
2	Contractual documents	В	1 and 3 only
3	Appropriate surveys and reports	©	2 and 3 only
4	Written systems of work	D	1 and 4 only
-			

3.09	Which one of the following 'general principles of prevention' do not need to be applied by principal designers, designers, principal contractors and contractors when conducting their duties in line with the Construction (Design and Management) Regulations 2015?		
A	Providing relevant instructions to employees		
B	Tackling foreseeable risks at source		
C	Giving collective protective measures priority		
D	Co-operating with other duty holders		
3.10	Which one of the following actions can a gang of groundworkers take to ensure they are involved in health and safety improvements?		
A	Tell another worker about an unsafe act and decide what to do about it themselves		
В	Identify and report any workplace risks that they come across on site		
C	Make a note of any risks, so they can be mentioned to a supervisor at the next site meeting		
D	Identify workplace risks they come across and speak to the individuals affected		
3.11	Under the Construction (Design and Management) Regulations 2015, which one of the following is an additional specific duty placed on principal contractors?		
A	To ensure the adequate supervision of workers		
В	To communicate with all other duty holders		
C	To have worker involvement processes in place		
(D)	To consult and engage with workers		

3.12	A project is due to commence but a principal designer has not yet been appointed. What is the likely negative impact on the project?				
A	The residual maintenance requirements may not sufficiently consider safety				
В	The allocation of sub-contracted resources may not align to the programme				
©	The returned pre-qualification questionnaires may not be adequately examined				
D	The vital elements of the health and safety processes may be overlooked				
3.13	Under the Construction (Design and Mana following will determine the level of superv	ngement	c) Regulations 2015, which two of the		
	on a project?	/151011, 111	Struction and information required		
A	The behaviours of the workforce				
B	The identified project risks				
0	The duration of the project				
D	The competence of the workforce				
E	The number of young people				
3.14	A project is at the planning stages, and it I yet appointed a principal designer. Why is moving forward?	has beer this sigi	n reported that the client has not nificant in regard to the project		
1	It could have an impact on the successful collaboration between all stakeholders	A	1 and 2 only		
2	It could have a negative impact on the gathering of pre-construction information	B	2 and 3 only		
3	It could have an impact on the safety of the residual maintenance requirements	C	3 and 4 only		
4	It could have an effect on how structured health and safety information is produced	D	1 and 4 only		

3.15	On a notifiable project, the co-operation and communication between duty holders is important to ensure health and safety is monitored and controlled. Is this statement true?				
A	Yes, otherwise health and safety procedures amongst sub-contractors will become inconsistent and project outcomes will take priority.				
В	No, senior management would carry out this role and expect all duty holders to co- operate and deliver positive health and safety results.				
0	Yes, because it will create a positive safety culture where everyone understands the risks and the measures in place to control them.				
D	No, because all stakeholders involved i own health and safety arrangements w	in the pro then on s	cess need to be responsible for their ite.		
3.16	According to the Construction (Design and Management) Regulations 2015, which one of the following is prepared by the	3.18	Which one of the following sources of information would not be included in the Health and Safety File?		
	principal designer during the pre-construction phase?	A	Electrical components drawing		
A	The construction phase plan	B	Steel frame erection method statement		
B	The fire safety plan				
C	The health and safety file	(C)	Air conditioning inspection schedules		
D	The design drawings	D	Access procedures to roof voids		
3.17	Why is the health and safety plan a significant document during the construction phase of a project?	3.19	Under the Construction (Design and Management) Regulations 2015, which two of the following does an employer, contractor and principal		
A	It provides a framework for the		contractor not have to provide workers with?		
_	recording of project information	A	Clean and accessible welfare facilities		
B	It collates all risk-related information	B	Site induction and familiarisation		
C	It specifies control measures where workers could be put at risk	C	A culture of health and safety		
-		D	Written outcomes of site meetings		
D	It controls the effective tendering process	E	Access to pre-construction documents		

3.20	Under the Construction (Design and Management) Regulations 2015, which duty holder has the responsibility for ensuring the construction phase plan is in place	3.21	Under the Construction (Design and Management) Regulations 2015, which one of the following does not need to be notified to the relevant enforcing authority?
	before the work commences?	A	The duration of the construction phase
(A)	Principal contractor	B	The planned number of contractors
B	Contractor		
<u> </u>	Client		The maximum number of welfare facilities
D	Principal designer	D	The peak number of people working on site
3.22	The construction phase plan must detain activities. Which three of the following	il specif would f	iic measures for high-risk work all under this requirement?
A	Work in the vicinity of high-voltage power lines		
B	Work that uses heavy plant and machinery		
0	Work that poses a risk of drowning to workers		
D	Work that requires legal health monitor	ing	
E	Work that involves energy distribution installations		
F	Work that involves the removal of demo	olition w	vaste
3.23	When planning a project it is essential documentation. Which two duty holder Management) Regulations 2015 have n	rs unde	r the Construction (Design and
A	Client		
B	Principal contractor		
0	Contractor		
D	Principal designer		
E	Designer		
Marie Control of the last			

When a project is notifiable under the Construction (Design and Management)
 Regulations 2015, the principal contractor must submit a written F10 notice that
 specifies project timescales calculated on a five day working week.
 Is this correct?

 Yes, as this is the required process to follow to inform the relevant enforcing authority
 of a notifiable project

 No, as the written F10 notice is submitted by the client and the timescales include
 weekends and bank holidays

 Yes, as the principal contractor can update the F10 if the project programme runs into
 weekends and bank holidays

 No, as the submission of the F10 notice is the responsibility of the client and they
 determine the working week duration



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OCCUPATIONAL HEALTH, WELLBEING AND WELFARE O4 Occupational health and welfare

Agreement from all supply chain companies

04	Occupational health and	welfare		
4.01	You are working in a safety-critical role and have purchased over-the-counter medication due to feeling unwell. What action must you take to protect the safety of yourself	4.03	Why should the control of psychoactive substances be included in a workplace drugs and alcohol policy?	
	and others?	A	To ensure the policy is robust and effective	
A	Inform your supervisor immediately of the medications' possible side affects	B	They fall under the same category of illegal drugs	
B	Do not come into work until you have completed the course of medication	C	They can have the same health effects as illegal drugs	
©	Continue your normal duties, but inform your colleagues of your potential symptoms	D	They are controlled by the Misuse of Drugs Act	
D	Come in later and leave earlier to reduce the daily hours you are working	4.04	Which one of the following is a reason why recreational drug and alcohol misuse must be considered in a substance misuse policy?	
4.02	Which one of the following must support a drugs and alcohol policy that is being introduced?	A	It is a risk to the individual and others if they are at work and still under the influence	
A	Education of the harmful effects of misuse	B	It is an employer's duty of care to highlight the risks of misuse outside of the workplace	
B	Arrangements of the 'service level agreement'	0	It will ensure that a prescribed limit is defined to control 'out of hours' misuse	
© 	Increased number of mental health first aiders	D	It will act as a deterrent and reduce the number of recreational users in	

the company

4.05	Why is it essential to manage the misuse of psychoactive substances in the construction environment?			
A	To gather data in line with a drugs and alcohol policy to help control health and safety risks			
B	To mitigate the risks of an individual's altered mental function and emotional state			
C	To provide evidence of an embedded 'behavioural safety' culture when tendering for future work			
D	To remain competitive in the sector in order to attract and retain a high level of talent			
4.06	If an individual has been under the influence of the drug LSD, which two of the following side effects could present a health and safety risk to themselves and others on a construction site?			
A	Having a flashback weeks, months or years later			
B	Increasing levels of paranoia and anxiety			
C	Choking due to a reduced cough reflex			
D	Becoming temporarily paralysed			
E	Triggering a mental health condition			
4.07	A construction company is introducing their health and safety arrangements. V need to be included in this policy?	a drugs and alcohol (D&A) policy to improve Vhich of the following essential components		
1	Education and information throughout all levels of the organisation	A 1 and 2 only		
2	A summary of the D&A service provider and their collection officers	2 and 3 only		
3	A thorough training programme for D&A appointed persons	1 and 4 only		
4	The prevention and rehabilitation support offered to employees	4 and 3 only		

4.08	When considering the risks of the effects of drug and alcohol use, employers need to consider the implications of misuse outside of the working environment. Is this statement true?			
A	Yes, employers must make it clear that the misuse outside of the working environment will not be tolerated			
В	No, employee's conduct outside of the working environment is out of the employer's contractual control as it has no impact			
0	Yes, recreational misuse by an employee can have an impact on the health and safety of everyone in the working environment			
D	No, it goes against an employees huma recreational misuse	n rights	if an employer interferes and controls	
4.09	The legionella bacteria that cause Legionnaires' disease are most likely to be found in which of the following?	4.11	Achieving a good level of occupational health on a construction project will be adequately achieved if the	
A	A boiler operating at a temperature of 80°C	-	II (116	
В	An infrequently used shower hose outlet	A	health risks are identified at the project design and planning stages	
0	A cold water storage cistern containing water at 10°C			
D	A cold water supply directly from a wholesome mains	B	health risks are discussed at the project planning and	
4.10	Which one of the following is the overall purpose of occupational health management?		execution stages	
A	Prevention of hazards	©	external occupational health provider is given an overview of the health risks	
B	Compliance with regulations			
C	Well being of workers	D	health risk control measures are followed during the execution phase	
D	Prevention of physical harm		tollowed during the exceedable phase	

- 4.12 To comply with the Control of Lead at Work Regulations 2002, which one of the following will form part of the health surveillance programme?
- A lung function test
- A blood test
- An audiometry test
- A visual skin examination
- 4.13 When clearing up debris on a refurbishment project, you fail to notice a discarded hypodermic needle, and it punctures your skin. What must you immediately do to try and mitigate the health risk?
- Apply suction to the puncture wound for 10 minutes
- Apply pressure to stop the puncture wound bleeding
- Encourage the puncture wound to bleed out
- Tightly dress the puncture wound with a bandage
- 4.14 When visiting a construction site you observe a positive health culture among the workforce. Which two of these practices form part of the organisation's 'health risk management programme'?
- Occupational health policy
- Wellbeing awareness campaigns
- Daily step activity trackers
- Health surveillance programme
- Absence management procedure

- 4.15 Health surveillance and monitoring programmes are the most important elements in regard to managing an organisation's occupational health risks. Is this statement correct?
- Yes health surveillance and monitoring are legal requirements, and are the foundation for managing these risks
- No although they identify health risks, they are only a part of a much bigger occupational health strategy
- Yes health surveillance and monitoring systems are the only accurate way to establish the health risks
- No they are not the most important elements, but they need to align to the outcomes of risk assessments

4.16	A construction company is reviewing it to ensure that health is managed effect throughout all levels of the organisation principles must be embedded?	tively and	that wellbeing is being promoted
1	That the health risks are equal to the safety risks	A	1 and 2 only
2	That any symptoms are managed and controlled	B	2 and 3 only
3	That everyone has ownership and a role to play	0	3 and 4 only
4	That the lifestyle issues are identified and tackled	D	1 and 3 only
4.17	An external consultant has been broug introduction of stress management sta in place before commencing this appro	ındards. V	
1	Commitment and approval from senior management	A	1 and 2 only
2	Establishment of a steering group with membership	В	1 and 3 only
3	Formulation and integration of a behavioural safety policy	C	2 and 3 only
4	Procedures to support effective and open communications	D	4 and 1 only
4.18	Which one of the following could cause occupational dermatitis?	4.19	What happens when dry cement is mixed with water?
A	Working for long periods of time wearing gloves	A	It becomes highly corrosive
В	Contact with another person who has dermatitis	В	It becomes extremely toxic
C	Contact with oily clothing and rags	<u>C</u>	It gives off dangerous fumes
D	Working in the sun without sun protection	D	It becomes a carcinogenic substance
NAME OF TAXABLE PARTY.			

4.20	Which one of the following timbers causes severe dermatitis?	4.23	A wellbeing poster campaign entitled 'Working with substances and the importance of clean clothing' is being rolled out on all sites, and aims to raise awareness of the varying health risks linked with
A	Boxwood		
B	Iroko		poor personal hygiene. Why would working with oil be one of the risks targeted in these posters?
©	Dahoma	A	Oil needs to be washed from the overalls using a harmful detergent
D	Chestnut		
4.21	Why must solvents not be used to clean hands?	B	Oil transferred onto overalls can cause skin problems around the thighs
A	They remove the protective oils from the skin		Oil can form a barrier on overalls that
B	They will severely burn the skin	(C)	restricts the effectiveness of cleanin
0	They will block the pores and ducts of the skin		Oil transferred onto overalls can
D	They can cause skin cancer		trigger ongoing dermatitis problems
4.22	Identify one cause of irritant contact dermatitis.		
A	A substance that dries out on the skin resulting in skin damage		
B	An allergic reaction to something that has come into contact with the skin		
C	Medications weakening the skin and blood vessels within		
D	Excessive exposure to ultraviolet light on unprotected skin		

4.24	To manage occupational dermatitis on a construction project, which two of the following should be given priority to reduce and control the risks?			
1	Provision of protective gloves	A	1 and 2 only	
2	Use of equipment for handling substances	В	2 and 3 only	
3	Automation of the processes	C	3 and 4 only	
4	Regular skin checks for signs of dermatitis	D	4 and 1 only	
4.25	Washing your hands thoroughly with soap and water to remove dirt and grime is a preventative measure when working with irritant substances. Is this correct?			
A	Yes, as regular hand cleaning prevents occupational skin diseases such as dermatitis			
B	No, washing your hands alone is not enough, you also need to apply a barrier cream			
C	Yes, as the skins pores, ducts and hair follicles can let irritants enter the sensitive inner skin layer			
D	No, as the dirt that builds up on the skins pores, ducts and hair follicles gives an added layer of protection			
		4.07	Military of the fellowing area	
4.26	Which one of the following is a bacterial disease associated with the presence of rats?	4.27	Which two of the following are symptoms of psittacosis?	
_	presence or ruts.	A	Flu-like symptoms that develop into pneumonia	
(A)	Psittacosis	B	Common cold symptoms resulting in paralysis	
B	Leptospirosis	<u> </u>	Chronic fatigue that develops into muscle spasms	
<u> </u>	Mesothelioma	D	Severe headache that causes visual impairment	
D	Legionella	E	Acne-like skin condition and ulcers	

- 4.28 You are working near a water course, and you start to feel unwell with flu-like symptoms. Which one of the following actions must you take?
- Go and see your doctor, and explain your working environment
- Continue working, and see if you start to feel better
- Inform the site health and safety advisor
- Take some medication, and have a few days off work
- 4.29 Identify which one of the following is a risk from roosting pigeons on a construction site.
- If droppings are disturbed, bacteria in their dust and droplets can present significant health risks
- If you disturb roosting pigeons they can become aggressive and are likely to attack
- If the droppings are not removed they can become toxic and present a latent health risk
- They obstruct construction site activities, such as surveying, and cause programme overrun

- 4.30 When micro-organisms are a potential risk on a construction project, which one of the following models should be used to ensure risks are managed effectively?
- A Hierarchy of risk control
- Assess, control and review
- Qualitative risk analysis
- Five-step risk management
- 4.31 You are working on a brownfield redevelopment site where a number of health hazards have been identified. Which two of the following areas on site could pose a risk of workers contracting legionella?
- Areas with a heavy covering of dried pigeon droppings
- Areas where rats are nesting, or have been nesting recently
- Areas with quantities of rust, sludge, scale and organic matter
- Areas with plaster walling that contains infected animal hair
- Areas with redundant water storage tanks, where the water is stagnant

4102	statement true?			
A	Yes, as smoking severely compromises the immune system making individuals susceptible regardless of their age			
B	No, there is no medical evidence that individuals who smoke are at a higher risk from contracting this disease			
©	Yes, as smoking damages the lungs, which makes individuals more susceptible to all types of lung infections			
D	No, as smoking affects the lungs and immune system, and this disease does not attack the respiratory system			
4.33	When testing the water quality of cooling results that identified a risk of legionell conditions in the cooling systems would	a growth	n. Which of the following two	
1	The water temperature in some parts of the system was between 20-45 °C	A	1 and 2 only	
2	The system was free from deposits of scale and organic matter	B	2 and 3 only	
3	The system had evidence of water droplets that could be circulated	0	3 and 4 only	
4	The water temperature in all parts of the system was between 30-55 °C	D	1 and 3 only	
MOST COLUMN				
4.34	Which one of the following organisational factors can be consequences of workplace stress?			
A	Inadequate health and safety			
В	Improved communication			
©	Business efficiency			
D	Robust decision making			

carried out immediately

4.35	You have observed that a member of your team has stopped engaging in meetings and lacks concentration. You are concerned these could be early indicators of work-related stress. As a manager, what should you do next?		
A	Discuss your concerns with the employee, make reasonable adjustments and guide them towards an employee assistance programme		
B	Discuss your concerns with the employee and ask them to think about how they can improve their engagement and concentration levels		
0	Give the employee a copy of the health and wellbeing policy and ask them to choose an intervention that may help them		
D	Monitor the situation with the employee for a few more weeks and if the symptoms escalate, have a discussion about support and intervention		
4.36	Which one of the following data categories would not be included in a questionnaire aiming to gather data from the workforce on potential stress and anxiety risks?	4.37	You notice that a recently-promoted worker has stopped having breaks with the others, and is always last to leave at the end of the day. What could this be an indication of?
A	The working environment conditions	A	They could be trying to impress the management on site, because they
B	Design of job roles		are looking for a pay rise
0	Reporting of information	B	They could be suffering from stress, and an informal catch-up should be arranged as soon as possible
D	Mental health first-aid provision	0	They could be trying to cover up other people's mistakes, and an investigation needs to take place
		D	They could be taking materials from the site, and checks need to be

-			
4.38	When developing a questionnaire to gather information from employees about work-related stress, which one of the following question categories is the least likely to gather reliable	4.40	A supervisor has spoken to you about feeling stressed, and has asked you for help with their diagnosis and treatment options. Can you do this?
	and valid data? The level of communication and sharing of information	A	Yes - you are responsible for proactively assessing stress levels, as a business priority
B	The physical working environment	В	No - the responsibility sits with the individual feeling stressed, who must
0	The type of work and how it is designed		seek appropriate help
D	The access to training and awareness courses	C	Yes - you have received extensive training to help with diagnosis and symptom management
4.39	Organisational standards that focus on positive ways to reduce work-related stress are being revised and communicated to all employees via a toolbox talk. Which two behaviours pood to be discouraged during these	D	No - you need to escalate this to the external occupational health provider for guidance
	need to be discouraged during these	NOT COLOR CONTROL	
	talks, to ensure that everyone plays their part in tackling workplace stress?	4.41	Which one of the following must be in place when providing shower facilities on a site?
A	Deliberately withholding important information	A	Shower cubicles that can be locked and are sufficient in number for both men and women to use in a communal welfare area
B	Turning a blind eye to a potential issue	В	Shower cubicles that can be used by men and women but separated by a partition within a communal welfare area
0	Being involved in light-hearted banter		Shower cubicles that can be used by
D	Overpromising on work targets	C	men and women but separated by a partition within a communal welfare area
E	Refusing to attend relevant training courses	D	Shower cubicles that can be used by men and women at pre-booked time slots which can be used by only one person at a time

4.42	Which one of the following does not need to be provided in a site welfare changing area?	4.44	When would the use of private facilities, such as toilets in a local restaurant, be permitted for contractors to use?
A	Seating		AA/h a a Ah a a a a a a a a a a a a a a a a
В	Heaters	A	When there is no alternative and the duration of work does not exceed one week
C	Air conditioning	B	When the project is at groundwork stages with limited personnel on site
D	Ventilation	C	When there is no alternative and the duration of work does not exceed one month
4.43	What has to be done if a site is going to temporarily shut down over a holiday period, and the toilets do not flush a week before this scheduled closure?	D	When the workers refuse to use the temporary portable toilets provided on site
A	Put a sign on the door explaining that the toilets are out of order	4.45	A project is due to commence, and
B	Arrange to get the toilets fixed as soon as possible	4140	a site canteen needs to be provided as part of the welfare arrangements. For this provision to meet legal
()	Arrange for a number of portable toilets to be provided		compliance, which one of the following does not fall under these rules?
D	Ask one of the contracted plumbers to fix the toilet flushes		tilese fules:
		A	That toilets near the canteen are separated by a lobby
		В	That certificates of staff training in food hygiene are displayed
		<u>C</u>	That the food provider is registered with the local authority
		D	That food safety is enforceable by the principal contractor

4.46	o ensure legal compliance of the welfare arrangements when completing a project site set-up, which two of the following must be taken into account?				
A	That all the facilities are detailed in the construction phase plan				
B	That the opening hours of the canteen can cater for peak project numbers				
C	The cleaning and maintenance regimes of the facilities				
D	The consequences of vandalism highlighted in the health and safety policy				
E	That a fully stocked first aid room is pro	ovided an	d staffed by a qualified nurse		
4.47	The Food Safety and Hygiene (England or supply must adhere to specific temp the following are the two regulated tem	erature c	ontrols to ensure safe levels. Which of		
1	Must be hot, at or above a minimum temperature of 63°C	A	1 and 2 only		
2	Must be cold, at or below a maximum temperature of 3°C	B	2 and 3 only		
3	Must be warm, at or above a minimum temperature of 37°C	0	1 and 4 only		
4	Must be chilled, at or below a maximum temperature of 8°C	D	3 and 4 only		
4.48	As part of the site set-up of basic welfa place to accommodate men and wome		es, which of the following must be in		
1	Washbasins must be equal in number to the number of toilet cubicles	A	1 and 2 only		
2	Showers must be available in case dirty work occurs during the build	В	2 and 3 only		
3	Facilities must be pre-booked via an electronically-auditable rota system	C	3 and 4 only		
4	Washbasins must allow for the washing of face, hands and forearms	D	1 and 4 only		

for raising awareness

4.49	Who has a role to play in promoting fairness, inclusion and respect in the construction sector?	4.51	Workplace harassment of one of you colleagues is occurring. Although you are not the target of this harassment, you are legally entitled
A	Clients	***************************************	to pursue a claim. Is this statement correct?
B	Contractors	A	Yes, as long as you have the evidence that an offensive environment is being created
© —	Site managers	B	No, it is not involving you so is not detrimental to your working
D	Everyone	<u> </u>	Yes, as you feel it is not acceptable
4.50	Which one of the following is an example of indirect discrimination in the workplace?	<u> </u>	No, it is just a case of banter between colleagues that has gone to far
A	An employer who does not recruit a visually impaired person as they do not like guide dogs	4.52	When promoting an equality and diversity culture on site, what must employers provide to enhance health
B	An employer who does not interview an applicant due to their race and		and safety productivity and improved working conditions?
	cultural background	A	Clearly-understandable safety information and messages
C	An employer who only gives full-time employees the chance of promotion and further development	B	A process for workers to follow to suggest improvements
D	An employer who unfairly treats an employee over others because they	C	A series of toolbox talks for staff that focus on the subject
	are a family member	D	Giving certain workers responsibility

4.53 Under the Equality Act 2010, which one of the following is the main legal duty for an employee? A To treat co-workers and contractors consistently and without bias To treat managers and co-workers fairly and without prejudice To raise any concerns with managers about bullying and harassment To treat co-workers, clients and the public with dignity and respect 4.54 How can the 'protective 4.55 When an employer makes changes characteristics' under the Equality to working practices, these improve Act 2010 benefit an organisation? customer service as well as Select two. recruitment and retention, but also... comply with legal requirements, to A They reduce the risk of claims accommodate a diverse workforce They define clear expectations allow for flexible working opportunities, to retain a They increase staff retention competitive edge ensure continual improvement in They attract highly skilled workers technological advancement align and build collaborative They raise awareness about inclusion relationships with trade unions 4.56 When an employer is raising awareness of fairness, inclusion and respect (FIR) in the workplace, which two legal responsibilities must they comply with in order to protect their employees? They are accountable for 1 harassment of their employees by 1 and 2 only third parties They must attend annual certified 2 2 and 3 only courses on the Equality Act 2010 They must act promptly to challenge 3 1 and 3 only unacceptable behaviours They should monitor procedures and 3 and 4 only clearly communicate changes

05 First aid and emergency procedures

Make sure they attend the

Ask another site worker to tell them

site induction

5.01 When displaying notices and signs to inform everyone of the site first-aid arrangements, what needs to be considered? A They are luminous and can be seen in a variety of weather and light conditions B They are understandable for workers who have language or reading difficulties C They are only placed at the site entrance and in the welfare areas D They contain the number of the local health and safety executive (HSE) officer 5.02 When planning an emergency response to an incident involving a casualty, what do all workers on site need to know? A How to place the casualty in the recovery position В The location of first-aid kits and first aiders How to submit an online incident report The location of the nearest ambulance station 5.03 What would be the most appropriate way to inform staff and visitors about the location of first-aid facilities on site? Make sure they read the site notices Ask them to speak to the site manager

5.04	You have been asked to deliver a site induction to an architect (who will visit regularly) and a group of students (who will visit once). What would be your main consideration?			
1	The students will only need to know about the main hazards as they are visiting once, and they will be escorted at all times	A	1 and 2 only	
2	Both sets of visitors will need to be escorted at all times; only permanent members of the workforce can have unescorted status	В	3 and 4 only	
3	Both sets of visitors will be subject to the same hazards, risks and control measures, which means they can attend the same induction	C	2 and 3 only	
4	The architect will need a thorough and detailed induction, as they will be visiting regularly and will likely need unescorted visitor status	D	1 and 4 only	
5.05	You are delivering a site induction to ne importance of the site's sign-in and sign you give to support this?			
A	That failure to comply with this requirement may result in disciplinary action being taken against offenders			
B	That the main purpose of this is to make sure that all persons are accounted for in the event of an emergency			
0	That it is a legal security requirement un 2015, and that non-compliance could st			
D	That this is used as a timekeeping tool, and inaccurate entries could result in a reduction in pay or non-payment of overtime			
E	That the sign-in and sign-out sheets mu (HSE) at the end of each month, as part			
	That anyone unaccounted for in an emergency will be treated as missing,			

5.06 Regular fire evacuation drills help to 5.08 Your site has activities that include inform workers of crucial emergency excavations and working at height. procedures. Should the drills happen How would you comply with at the same time each week? legislation and ensure that new workers involved with these activities were aware of the hazards and emergency procedures? Yes - this will accurately measure the efficiency of the procedures in By referring to Schedule 5 of place, and the effectiveness of the The Construction (Design and A evacuation training Management) Regulations 2015, and asking them to read the emergency procedures document By referring to Schedule 2 of No - drills are not required every The Construction (Design and week: it is just as effective to discuss B Management) Regulations 2015, and the evacuation process with B distributing a leaflet that contains the workers information on the hazards, locations, and emergency procedures By referring to Schedule 1 of No - workers can prepare for the drill, The Construction (Design and which reduces its realism and fails C Management) Regulations 2015, and C to test workers' knowledge of the erecting signs detailing hazards and evacuation process emergency procedures By referring to Schedule 3 of The Construction (Design and Yes - this allows workers to pre-empt Management) Regulations 2015, and the evacuation, and shut down or D D developing a site induction that is isolate any machinery that they may specific, highlights risks, and includes be using emergency procedures 5.07 5.09 You have asked a lone worker to carry Site induction training should cover key health and safety aspects such as out a survey in an isolated project first-aid arrangements. Why should location. Which one of the following should you provide them with? training for young employees be a priority? A An office first-aid kit They will not have any experience of first-aid They are particularly vulnerable The location of the nearest hospital to accidents They have a poor perception of health C A first-aid manual and safety They are more likely to take D A travelling first-aid kit

illegal substances

OCCUPATIONAL HEALTH, WELLBEING AND WELFARE

5.10	When should an automated external defibrillator (AED) be used on a person?	5.13	Which three factors would determine the need for having an automated external defibrillator (AED) in the workplace?		
A	When they are suffering from severe shock	A	How many of the workforce are or have been regular smokers		
B	When they are having a stroke				
0	When they are suffering from heavy bleeding	B	How many people may be working in or visiting your workplace		
D	When they are having a sudden cardiac arrest				
5.11	Where must average stations and	C	The location of the site in relation to the nearest medical centre		
5.11	Where must eyewash stations and burns kits be located?				
A	Only in the areas that might need them	D	Whether any workers suffer from an asthmatic condition		
В	In the site office with the site manager	Œ)	Whether any work activities could cause amputation of a major limb		
C	At the site entrance with the security guard				
D	Where they can be easily accessed by all workers	F	The age, health conditions and medical history of the workforce		
5.12	The potential hazard of flying fragments produced by grinding operations has been identified. Mains tap water is not readily available for eye irrigation. What should be included in the site first-aid box?				
A	A set of sterile, clinical tweezers with rounded magnetic tips and finger stabilising supports				
B	At least 1 litre of sterile water or sterile normal saline (0.9%) in a sealed, disposable container				
C	A 500 ml can of compressed, clinically sterile air, in a sealed, water-cooled, reusable container				
D	At least 1 litre of clinical strength disinfectant or sterile normal saline (2%) in a sealed container				

05

5.14	Is it good practice to include foil blanke	ets in a site's first-aid kit?		
A	Yes, foil blankets should only be included during the winter months when it is wet and cold, to prevent a casualty developing hypothermia			
B	No, foil blankets are bulky and take up too much room in a first-aid kit, which means that essential items will need to be left out			
0	Yes, foil blankets help to retain body heat and they can be used in winter to keep a casualty warm, or in summer if a casualty has gone into shock			
D	No, if you have developed an effective emergency procedure plan and you have appropriate first-aid facilities, then foil blankets are not needed			
5.15	What should be the main consideration	n when placing first-aid equipment around site?		
A	It is located in the main site office at all times			
B	It is located in the first-aid room equipment cabinet			
C	It is located in a place where it is likely to be needed			
D	It is located with the first-aider at all times			
5.16	Which of the following are key features of an automated external defibrillator (AED)?			
1	They are capable of interpreting a casualty's heart rhythm and delivering an electric shock, with minimal input from the operator	A 1 and 2 only		
2	They are capable of providing effective cardiopulmonary resuscitation (CPR), which will keep a casualty stable until medical assistance arrives	B 3 and 4 only		
3	They are the only device that can prevent death from a heart attack, and have a high success rate for casualty recovery in the UK	1 and 4 only		
4	They are programmed not to deliver a shock to a casualty unless detecting the presence of a heart rhythm that requires defibrillation	2 and 3 only		

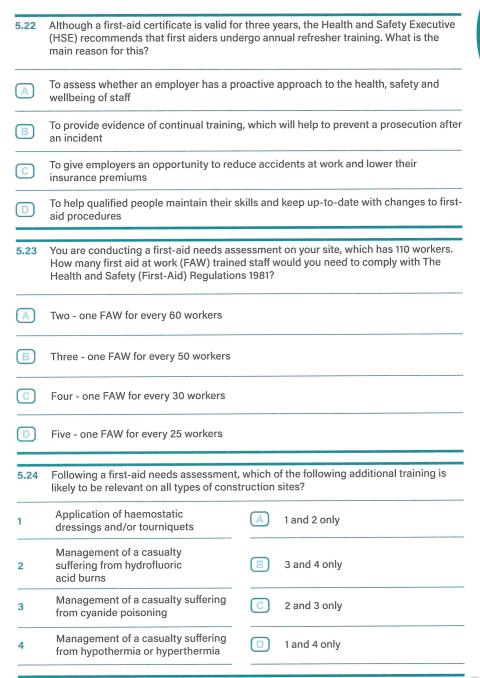
5.17

OCCUPATIONAL HEALTH, WELLBEING AND WELFARE

Which one of the following must a

	first aider not do?	0120	the most suitable to help you identify your first-aid requirements?		
A	Cardiopulmonary resuscitation (CPR)	A	British Red Cross First Aid at Work Manual		
B	Stop any bleeding	В	First Aid Approved Code of Practice (ACOP)		
©	Administer prescribed medicines	<u>C</u>	Health and Safety (First Aid) Regulations 1981		
D	Treat burns	D	The Workplace (Health, Safety and Welfare) Regulations 1992		
			Maria I and Calleria Control		
5.18	Which one of the following is a main responsibility of an appointed person?	5.21	Which two of the following factors must be considered when providing first-aid facilities on site?		
A	Carry out first-aid duties if a qualified first aider is not present	A	The cost of training staff to become qualified first aiders		
В	Assist the qualified first aider with triage, and monitor all unconscious casualties	B	The hazards, risks and nature of the work being carried out		
	Contact the emergency services and	(C)	The health, fitness, and medical history of all staff and visitors		
0	direct them to the scene of the accident	D	The space in the site office to store the necessary equipment		
D	Apply plasters, dressings and slings to minor wounds and burns	E	The maximum number of people expected to be on site at any time		
5.19	A first aider can assist an individual to take their prescribed injectable medicine, but they must never administer it themselves. Are there any exceptions to this rule?				
A	Yes, a first aider can inject any medicine as it is a skill covered on the first-aid course, but they must gain consent from the casualty first				
B	No, a first aider would be charged with grievous bodily harm (GBH) if they were to inject any medicine into a casualty				
©	Yes, a first aider can administer injected adrenaline, such as an EpiPen, for the purpose of saving the life of a casualty				
D	No, a first aider must never inject any medicine. They should call 999, make the casualty comfortable and wait for professional help				
THE RESERVE OF THE PARTY OF THE		CANCEL STATEMENT			

5.20 Which one of the following would be



5.25 Although the assessment of first-aid does not need to be formally recorded, why is it considered good practice to do so? If an accident occurs, employers can use their written documents as evidence during A legal proceedings, which will prevent them from receiving a fine or custodial sentence The information will help the first aiders on site to choose the contents for the first-aid B boxes, and to identify and purchase any specialised medical equipment Employers can demonstrate to a safety representative, the Health and Safety Executive (HSE), or local authority inspector, how they decided on their level of firstaid provision Employers can print the findings of the first-aid needs assessment and distribute them D to visitors or new workers during the site health and safety induction 5.26 What should an employer do to identify the emergency medical provision that is required on site? Consult with the nearest hospital Conduct a first-aid needs assessment Ask a health and safety inspector Read a first aid at work manual 5.27 Which three of the following factors should be considered in a first-aid needs assessment? The skills, knowledge and experience of the workers В The type of work or operations being carried out Whether there are special or unusual hazards The minimum number of people that will be on site The fitness and agility levels of the workers The remoteness of emergency medical services

5.28	You are responsible for providing first aid on site, including a first-aid room. A manager asks you if they can store some electrical equipment in there, as it is rarely used and is a waste of valuable space. Would you agree to this request?					
A	No - the signals from the electrical equipment could interfere with specialist first-aid kit					
В	Yes - so long as the equipment was stored neatly in a corner and was always kept clean					
0	No - the first-aid room should be available at all times, and used only for administering first aid					
D	Yes - as long as access to the room is not restricted, and equipment is stored neatly under the treatment bed					
5.29	Which of the following, other than required first-aid materials, can sites also provide to ensure a satisfactory first-aid room set-up?					
1	A sink with hot and cold running water	A	1 and 3 only			
2	A resuscitation training mannequin	B	2 and 4 only			
3	A reclining chair that offers back support	C	3 and 2 only			
4	Drinking water with disposable cups	D	1 and 4 only			
5.30	Which one of the following should not be a consideration when selecting first aiders?					
A	Friendly and reassuring disposition					
B	Ability to remain calm in an emergency					
0	Ability to work in an enclosed space					
	Acceptable to male and female staff					

- 5.31 First-aid provision must be 'adequate and appropriate in the circumstances'. What should you do to meet this requirement?
- Provide a qualified first aider for every 25 members of staff, and regularly review the contents of the first-aid needs assessment
- Instruct a qualified first aider and an appointed person to identify the provision that is needed for the site and specific work areas
- Conduct a first-aid needs
 assessment and communicate the
 contents of the assessment to all site
 workers and the nearest hospital
- Ensure that sufficient first-aid equipment, facilities and personnel are available at all times, taking account of alternative working patterns
- 5.32 When conducting a first-aid needs assessment on site, which one of the following would not need to be given as much consideration regarding the first-aid arrangements?
- If the build sections are spread out across buildings and floors
- If members of the public are regularly visiting the site
- If self-employed workers under the control of an employer are on site
- If inexperienced workers or employees with disabilities are working on site

- 5.33 You are observing a first aider conducting an emergency response simulation (mock-up exercise), which involves an unconscious worker lying on the floor next to an electrical cable. What is the first thing that the first aider should do?
- Locate a wooden pole or stick and move the cable away from the casualty
- Assess the situation and identify any danger to themselves or others
- Move the worker away from the cable and out of immediate danger
 - Tell the appointed person to get the automated external defibrillator (AED)

5.34	You are planning the emergency escape and exit routes for a site. Which of the following is one of the areas that needs to be considered?
A	They must lead to a safe, open space, which is free from traffic and has basic medical equipment available such as a fully stocked first-aid kit
B	They must be the quickest and most direct way to the assembly area. Torches must be provided at the start, and various other stages of the route
0	They must be kept clear and free from obstruction and, where necessary, provided with emergency lighting so that they can be used at any time
D	They must only be put in place if there are ten or more workers present at any time, and workers will be encouraged to plan their own routes
5.35	Emergency procedures need to be developed for the effective rescue of a casualty if they fall into a net system. Which one of the following do you consider to be a reasonably practicable approach?
A	Any equipment that is required needs to be available within five minutes of an incident. The rescue must only be carried out by qualified first aiders who have rope access training.
В	Any suitable equipment needed has to be on site, but it does not need to be located near the working area. A first-aid kit will be available in the working area and qualified first aiders will know the risks.
0	Any equipment that is required needs to be instantly available in the work area, and suitable. The rescue must be pre-planned and take into account the work activities and the changing site environment.
D	Any equipment in the work area must be able to deal with any type of rescue. All workers will need to be qualified first aiders, and have rope access training.
5.36	A worker has fallen into a safety net and has sustained injuries. Which one of the following procedures should now be used to prevent further injury?
A	Use a mobile access tower (MAT) to gain height access and send a first aider onto the net to assess the casualty
В	Send a first aider and appointed person onto the net to then assess the casualty and apply necessary first aid
0	Pull the netting so it is taut, then send a first aider onto the net to assess the casualty, and wait for the paramedics
D	Use a mobile elevated working platform (MEWP) to gain height access and then bring the casualty down safely

5.37	to first aid?			
A	There is a first-aid kit located on the edge of the netting			
B	The casualty can receive first-aid treatn	nent wh	ile in the net	
C	All operatives working near to the net a	re first-a	aid trained	
D	First aid will not be required as the net prevents injury			
5.38	Under the Health and Safety (First Aid) identified as duties of an appointed per		tions 1981, which of the following are	
1	Providing emergency cover, within their competence, where a first aider is absent due to unforeseen circumstances	A	1 and 2 only	
2	Investigating all first-aid related incidents and producing a report that provides detailed statistics	В	1 and 4 only	
3	Supporting the first aider to prepare, distribute and administer medication on sites with more than 100 workers	0	2 and 3 only	
4	Looking after the first-aid equipment and facilities and calling the emergency services when required	D	3 and 4 only	
Marine Spinisher		-		

Your risk assessment has identified there will be volatile COSHH hazards on site. 5.39 Will this impact your first-aid provision? Yes - additional first-aid kits will need to be available, and all first aiders will need to undertake advanced trauma management training No - the provision should be the same across all sites. Suitable site inductions and toolbox talks will help to raise awareness of the hazards Yes - the provision will need to be suitable, and the first aiders should undertake C specialised training courses related to the specific hazards No - the first aiders will receive burns training on their courses, which will mean that D they can effectively manage any incidents 5.40 For a new construction project, which three of the following need to be shared with the local emergency services so they are fully informed? Precise location of the site Predicted ground conditions Specialist equipment required D Location of site entrances Copies of rescue procedures Specific hazards on site

OCCUPATIONAL HEALTH, WELLBEING AND WELFARE O6 Personal protective equipment

6.01 Which one of the following is not 6.04 Which one of the following has been a requirement for impact-resistant identified as the main cause of eye safety goggles? injuries to construction workers? A Not wearing the eye protection A Tinting to reduce glare from the task Not being given suitable eye protection Regular cleaning and maintenance Not storing the eye protection correctly Suitability for the task and individual D Defacing the eye protection Markings to identify their type D 6.05 When issuing personal protective and suitability equipment (PPE) to a worker, which one of the following must be taken into account? 6.02 To avoid the risk of flying fragments, what type of eye protection must a That it fits correctly allowing for groundworker wear when breaking safe working concrete with a pneumatic drill? That it can be modified for maximum comfort Impact-resistant goggles That it meets personal choice and preferences Welding helmet That it is easily trackable for cost allocation purposes Full visor 6.06 When purchasing eye protectors and shields from a new supplier, it Safety glasses is important they are all individually marked to identify their 'type and suitability'. Is this correct? 6.03 A visitor has arrived on site to assess No, it is the responsibility of the a worker carrying out a grinding supplier to ensure records are activity. They have no eye protection retained of the batch type with them. What action must and suitability vou take? Yes, it is one of many requirements to Provide them with ensure compliance with British and impact-resistant goggles European specifications No, as the process of marking Escort them off the site immediately the polycarbonate material could seriously reduce the level Issue them with standard of protection safety glasses Yes, it is a requirement of the British Advise them to return when they Safety Industry Federation (BSIF)

which represents manufacturers

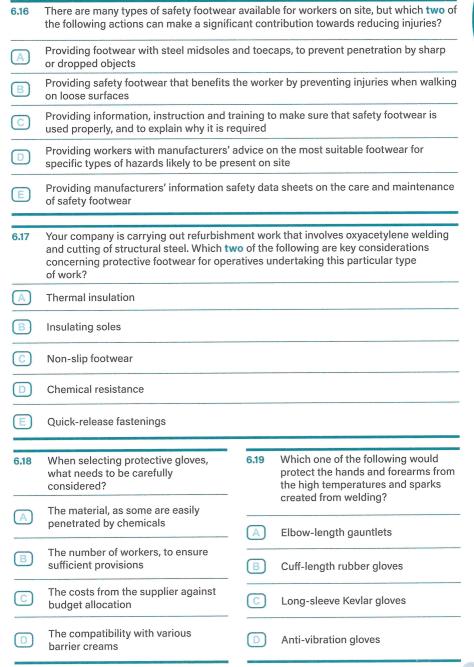
have suitable eyewear

NACOUNTAINM		(900) 900000000	
6.07	It is important for an operative to wear suitable eye protection while working with irritant materials	6.08	What are the two main benefits to the user when wearing suitable eye protection?
	to ensure	A	It will fit them better and provide a better level of comfort
(A)	an effective seal around the eye area	B	It will encourage them to look after it and store it correctly
8	clear visibility at all times	0	It will not obstruct movement when working
0	the eyes do not become dry	D	It will provide them with clearer and improved vision
D	compliance with mandatory requirements	E	It will eliminate the risk of an eye injury in any situation
6.09	When operating an angle grinder, what rated face shield, as opposed to safety		-
1	It gives protection against medium-energy impacts	A	1 and 2 only
2	It is suitable for withstanding high-speed particles	B	2 and 3 only
3	It allows the air to flow and prevent fogging	0	1 and 4 only
4	It is face-fit tested to give a secure seal	D	1 and 3 only
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6.10	What type of safety footwear must be worn when spreading and levelling wet concrete to form a slab floor?	6.11	When employers are selecting the most suitable protective footwear for specific types of on-site activity, which one of the following must be carried out?
	Steel-toe and mid-sole boots	A	An assessment of its suitability in line with the nature of risk
B	Long safety wellington boots	В	A hazard identification assessment of the work environment
© —	Waterproof safety trainers	C	A cost-projection analysis of its return on investment
D	Safety rigger boots	D	A plan to identify a systematic and timely training programme

06

OCCUPATIONAL HEALTH, WELLBEING AND WELFARE

6.12 What is the minimum requirement 6.13 Which one of the following is of safety footwear on a a benefit of safety boots with construction site? integrated ankle support? Reduction of foot injuries Steel toecaps and steel midsole Laces and steel toecaps Increased level of comfort Ability to withstand all Higher level of durability weather conditions Provision of adequate ankle support D Prevention of foot movement 6.14 Which one of the following is the main reason for steel toecapped safety footwear? To protect the feet from dropped objects To protect the feet from oil contamination To provide protection on uneven surfaces To provide extra cushioning around the toes 6.15 On your construction site, you have to select and issue protective footwear to workers for general operations. Which of the following are key factors for the wearer to consider? Footwear should be slip-resistant 1 and 2 only with anti-slip soles Footwear should be flexible and 2 2 and 3 only water-resistant Footwear should be able to 1 and 4 only absorb perspiration Footwear should be heat-resistant 2 and 4 only and insulated



6.20	You are planning a road reinstatement project, which involves hot works and the use of a bitumen boiler. Which of the following would be the recommended type of glove to use for these specific workplace hazards?	6.21	You are planning work where operatives have to break up reinforced concrete slabs using handheld pneumatic concrete-breaking drills. For this type of activity, wearing anti-vibration gloves is recommended to achieve the necessary level of protection. Is this correct?		
A	Asbestos substitute or Nomex gloves		Yes - only correctly-fitted gloves, approved by the machine's		
_	Long alaquad Kaulay alaysa	***************************************	manufacturer, should be used		
B	Long-sleeved Kevlar gloves or gauntlets	B	No - they reduce the flexibility of the hands, resulting in higher grip and push forces		
©	Neoprene or chrome-leather gloves with reinforced palms	C	Yes - they keep hands insulated when operating machines that cause vibrations, such as drills		
D	Heavyweight rubber, nitrile or PVC gloves	D	No - to achieve that level of protection will require specially-designed protective equipment		
6.22	A risk assessment has identified that ha involving pressed steel lintels with sharp should also be taken?	ind and o edges	arm protection are required for a task . Which one of the following actions		
A	Consider if any additional personal protective equipment is required that has not been identified in the assessment				
B	Comply with the assessment, because it will cover all hazards and conditions on site associated with the task				
C	Carry out spot checks on workers as they complete the task, to make sure they are following the assessment to the detail				
D	Implement control measures as identified in the assessment, and consider the accident and emergency procedures				

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6.23	When selecting protective gloves for a range of specific processes and operations on site, which two of the following are examples of mechanical hazards that must be considered?		
A	Masonry blocks		
B	Angle grinders		
C	Serrated blades		
D	Thin metal sheets		
E	Petrol disc cutters		
6.24	You are carrying out a risk assessment for a task using stain removers to clean paint and graffiti from concrete and brickwork. The work will be conducted in a city centre at night and during the winter. Which two types of gloves would be the most suitable for this task?		
A	Nitrile		
B	Chrome leather		
C	Nomex		
D	Heavyweight rubber		
E	Reinforced leather		
6.25	Which one of the following is the recommended type of personal protective equipment (PPE) to be worn that can assist in preventing head injuries?		
A	A safety helmet that is kite marked and has a date of production		
В	A safety helmet that has a date of production and has a chinstrap		
C	A safety helmet that is compatible with ear defenders and eye protection		
D	A safety helmet that is comfortable with an interchangeable headband		

6.26	When selecting head protection, the Personal Protective Equipment at Work Regulations (PPE) 2022, state that it must be 'suitable'. Which two of the following define the term 'suitable'?				
A	Must be adjustable to fit the wearer and be compatible with other equipment worn at the same time				
В	Must be of a type that can be stored co	orrectly a	fter its use a	ınd main	tained in good
C	Must be appropriate for the risks involved conditions of exposure	ved witho	out increasin	g the ov	erall risk and
D	Must be stamped with its expiry date v worn back to front if required	vith a rev	ersible crad	le so it c	an be
E	Must be supported with the user manual and recommendations for its safe maintenance and storage				
6.27	The weather forecast has indicated that high winds are likely to hit your area. This could affect workers who are wearing personal protective equipment (PPE), specifically those wearing hard hats. You should now check the original risk assessment (RA) and review the suitability of the PPE, because				
1	The PPE is now a hazard, and the BA needs to be		1 and 2 only		
2	The conditions could affect the performance of the		3 and 4 only		
3	The RA would definitely have included high winds as a hazard, and identified the appropriate control measures			1 and 4 only	
4	The PPE must be appropriate for the risks involved well as the conditions it is being exposed to		lved, as	D	2 and 4 only
6.28	It is a requirement to wear suitable head protection on all building and construction sites, unless	6.29	which one	of the fo	a construction site, ollowing is a benefit e head protection?
A	You are working inside a finished building which has been made ready for handover	A		compen	probability of a sation after a
В	You are working on a task that involves leaning over exposed edges	В	It can prevent any injuries the work involves leaning		•
<u>C</u>	You are working on a task where wearing a safety helmet reduces your visibility	exposed edges It can allow othe personal protect		w other o	
D	You are working in an area where there is no risk of injury from falling objects	D			vorker from direct e heatstroke

6.30 You are delivering a site induction 6.31 You are working at height, which to new workers, and explaining how involves leaning over exposed edges. to check a safety helmet for signs What action must you take to ensure of damage. One of the workers asks that your head protection remains whether they can personalise their in place? helmet. How would you respond to this? Adjust the plastic cradle inside the safety helmet to ensure a tight fit, so No - this would be classed as that it remains secure interfering with personal protective equipment, and would result in instant dismissal Reverse the safety helmet, to prevent B the wind from getting under the peak Yes - you can write your name on the and lifting it off peak, and your blood group and date of birth on the inside of the helmet Make sure that the safety helmet is C fitted with a chinstrap, and is being No - the solvents in some paints, properly worn at all times adhesives and indelible markers can reduce the strength of the plastic Ensure the safety helmet is fitted with Yes - you can write your name, the an additional lanyard, so that if it falls date of your site induction and any it will not hit another person additional duties, such as first aider On site, you see an operative's safety helmet fall off and drop onto a concrete slab from 6.32 a height of approximately two metres. Which of the following statements will apply? Safety helmets are manufactured and designed to offer a pre-determined level of impact resistance if they fall off, or have been dropped onto a hard surface A safety helmet that has fallen from height onto a hard surface may have suffered damage that will affect its strength - even though no cracks are visible, it should be replaced A safety helmet that has fallen from height should be inspected by a competent person, and should be replaced if it has been damaged or is showing visible signs of wear and tear

Many safety helmets have built-in features that enable them to fall or be dropped onto

a hard surface without suffering damage that will affect their strength

6.33 Which one of the following must 6.36 Which one of the following must be an employer do if noise levels in a considered when selecting suitable working area are at or above the hearing protection? lower exposure action value? Suitability for use with mobile Α Ensure all employees in the area wear phone earphones hearing protectors Handling and fitting of the Ensure hearing protectors are hearing protection available to affected employees Information, instruction and Ensure employees not involved in the C training for employers task stay out of the area Ensure no employee enters the area Compatibility with other D until the noise levels are reduced safety equipment 6.34 When employees are likely to be 6.37 All workers should be provided with exposed to noise levels at or above information, instruction and training the upper exposure action value on how to fit and use disposable ear (EAV), which one of the following plugs, but should they be shown how must an employer do? to check the quality of the ear plug fitting? Provide awareness on hearing loss symptoms Provide ear plugs and encourage Yes - they should know how to their use conduct a sound check, which requires the use of specialist Provide a selection of types of audiometry equipment hearing protection Provide hearing protection and ensure it is used No - a sound check is not required, as В once the worker is exposed to a noisy area, they will know if the fit is good 6.35 The selection of hearing protection should initially consider which of the following factors? Type and performance of the Yes - they should know how to hearing protection conduct a visual depth check, as C correctly-fitted plugs will not be visible from the front Type and level of comfort of the hearing protection Type and attenuation levels of the No - they do not need to carry out a hearing protection visual depth check, as the supervisor will do this for them and advise if the Type and amplitude levels of the

fit is good

hearing protection

06

6.38	Workers on site are issued with foam earplugs as personal protective equipment (PPE). Which two of the following are considerations for management, in order to ensure that the earplugs perform as expected?				
A	Training in how to fit and wear them				
B	Provision of a range of different sizes				
0	Provision of individually-moulded earplugs				
D	Supervision to ensure that they are worn properly				
E	Checking that there is no damage to the seal				
6.39	Your risk assessment has identified the need for he If you choose ear defenders for the workers, which				
1	Ear defenders might not be suitable, and may cause ear irritation or infections as they can become excessively dirty	A	1 and 2 only		
2	Thick frames on safety eyeglasses can affect the fit and seal of ear defenders, and reduce attenuation levels	В	2 and 3 only		
3	Fitting is critical for ear defenders, as they offer an improved level of hearing protection and comfort compared to other earplugs	0	1 and 3 only		
4	The practice of wearing earphones under ear defenders may mask auditory warnings and reduce awareness	D	2 and 4 only		
6.40	You are assessing the risks of emergency overnight road repairs, where groundworkers need to work near to a large excavator breaking out a concrete slab. The provision of hearing protection in this circumstance would be considered as a last resort. Is this correct?				
A	Yes - providing personal hearing protection or other types of hearing protective equipment should be considered as a last resort in any circumstances				
В	No - providing personal hearing protection due to noise should be one of the first considerations on discovering a risk to the health of your employees				
<u></u>	Yes - providing personal hearing protection should only be considered as an alternative to controlling noise by technical and organisational means				
D	No - providing personal hearing protection should only be a consideration when there is a need for longer-term noise reduction measures				

6.41 Class 2 high-visibility clothing is typically worn in which one of the following groups of working environments? A Airports, highways maintenance and railways Sites with vehicle or plant movements Roads with a speed of 40 mph or above Dual carriageways and motorways 6.42 Work is about to start on a housing development project located on private land. There will be lots of vehicle and plant movements, and access will be needed for delivery drivers. How would you achieve the minimum visibility level required for these hazards? Provide high-visibility waistcoats with one 5 cm band of reflective tape around the body Provide high-visibility vests with three-quarter length sleeves and two 5 cm bands of reflective tape around the body Provide high-visibility vests with two 5 cm bands of reflective tape around the body Provide high-visibility long-sleeved jackets with two 5 cm reflective bands around the D body and braces over the shoulders 6.43 Which one of the following is the minimum acceptable visibility level for Class 1 high visibility clothing? 0.10 m² of reflective material 0.15 m² of reflective material 0.17 m² of reflective material 0.20 m² of reflective material

6.44	Which one of the following high-visibility clothing sets must be worn by workers in proximity to a live dual carriageway road with a speed limit of 50 mph or above?		
A	Vest with two 5 cm bands of reflective tape around the body, or one 5 cm band around the body and braces over both shoulders		
B	Jacket with three-quarter length sleeves and trousers, one 5 cm band around the body and braces over both shoulders		
C	Overalls with 5 cm bands of reflective tape around the body, braces over both shoulders and reflective bands around each leg		
D	Long-sleeved jacket and trouser suit with two 5 cm bands of reflective tape around the body and arms, and braces over both shoulders		
6.45	Class 2 medium-visibility clothing is required to be worn by workers in which two of the following circumstances?		
A	When working in areas such as highways maintenance and railways		
B	When working on or near A and B class roads		
C	When working on sites with vehicle or plant movements		
D	When working on or near dual carriageways		
E	When working near roads with a national speed limit of 60 mph or above		
6.46	Which one of the following is an example of the lowest level for high-visibility clothing?		
A	High-visibility jacket with two 5 cm reflective bands around each arm		
B	High-visibility overalls with two 5 cm reflective bands around the body		
C	High-visibility trousers with two 5 cm reflective bands around each leg		
D	High-visibility vest with two 5 cm reflective bands around the shoulders		

6.47

OCCUPATIONAL HEALTH, WELLBEING AND WELFARE

High-visibility clothing is designed to protect the wearer from all harm by making them easily visible to vehicle and plant operators, as well as the travelling public. Is this correct? Yes - it is designed to protect the wearer from all physical injuries while working on a A site, by visually alerting vehicle drivers and public traffic to the presence of workers No - it is designed for workers in some specific roles, such as highways operations, and allows their supervisor to check on them easily from a distance in any lighting conditions Yes - it is designed for workers in industries where a particular background colour is specified for clothing, such as fluorescent orange for railway workers No - it is designed to make the wearer easy to see under any light conditions in the D day, and under illumination such as vehicle headlights in the hours of darkness Your employees are going to be carrying out repair works to an airport runway and 6.48 side-access roads. What significant features must the personal protective equipment issued to your workers provide, when equipping them for this type of work? The clothing provided must be weather appropriate, and include a hood that can 1 1 and 2 only accommodate a safety helmet The clothing must be a different high-visibility 2 colour to that issued to airport air-side B 2 and 4 only employees, to avoid confusion The clothing issued must be of the highest 3 1 and 3 only visibility level, and meet the Class 3 standard The clothing issued must have a clearly-defined contractor identification band 3 and 4 only on the back 6.49 Your project involves frequent vehicle and plant movements, and requires working on or near a busy single carriageway A-class road, with a speed limit of 40mph. Which one of the following would be the minimum level of visibility required for this work? Long-sleeved jacket and trouser suit, with one 5 cm band of reflective tape around the A body and arms, and braces over both shoulders High-visibility trousers, with two 5 cm reflective bands around each leg, and a vest with one 5 cm band around the body Waistcoat and trouser suit, with two 5 cm bands of reflective tape around the body and arms, and braces over both shoulders High-visibility vest, with two 5 cm bands of reflective tape around the body, or one 5 cm band around the body and braces over both shoulders

6.50	You have to carry out emergency repairs to a footpath running adjacent to a mainline railway. Your team are wearing Class 2 high-visibility fluorescent yellow jackets, with two 5 cm bands of reflective tape around the body and braces over both shoulders. Is this suitable personal protective equipment (PPE)?			
A	Yes - the clothing must conform to the relevant British Standards and the requirements laid down by the rail network, in that it must be clean and worn correctly at all times by workers			
В	No - there are colour restrictions for items of clothing worn by operatives working on or near a railway, and yellow clothing must not be worn in case a train driver mistakes them for a signal			
0	Yes - the minimum PPE for this type of work is high-visibility yellow upper-body clothing with reflective tape, which complies with the principal contractor's requirements			
D	No - the minimum PPE for this work is orange, high-visibility long-sleeved jackets and trouser suits, with two 5 cm bands of reflective tape around the body and arms, and braces over both shoulders			
6.51	Due to a site's working environment, employees are frequently requiring replacement items of personal protective equipment (PPE). In these circumstances, an employer			
	may be able to deduct the cost of repla Is this correct?	cement	PPE from staff wages.	
A	Yes - this includes PPE supplied to agency workers if they are legally regarded as employees			
B	No - an employer cannot ask for money from an employee for PPE, whether if it is returnable or not			
(E)	Yes - as long as it has been made clear in the contract of employment that PPE is a deductible cost			
D	No - an employer may only be able to deduct costs for supplying PPE to sub- contractor employees			
6.52	The main requirements of the Personal Regulations 2022 are that	Protect	ive Equipment at Work (Amendment)	
1	it is supplied and used in workplaces where there are significant risks to health and safety	A	1 and 2 only	
2	it is properly assessed before each use to ensure it is suitable	B	2 and 3 only	
3	it is supplied and used wherever there are risks that cannot be controlled in other ways	C	3 and 4 only	
4	it is inspected regularly and only maintained by a competent person	Đ	1 and 4 only	

6.53	In which of the following two circumstances would the Personal Protective Equipment at Work (Amendment) Regulations 2022 not be the first regulations to consider?
A	For gloves used to prevent dangerous chemicals penetrating the skin
B	For safety harnesses used to prevent or arrest falls from height
<u> </u>	For hearing protection to prevent exposure to harmful levels of noise
D	For head protection from falling objects or hitting the head
E	For high-visibility clothing worn in the proximity of moving traffic
6.54	As required by the Personal Protective Equipment at Work (Amendment) Regulations 2022, your site management team needs to carry out an assessment to determine whether the personal protective equipment (PPE) you intend to provide will be suitable. Which one of the following common items of PPE should also be risk assessed for suitability under the requirements of other health and safety regulations?
A	A high-visibility jacket worn to minimise the risks of contact with vehicles or when moving plant
В	A construction safety helmet used to protect against risks from falling objects or banging the head
C	A pair of safety gloves used to prevent the risks of dangerous chemicals penetrating the skin
D	A pair of safety boots worn to prevent injuries from dropped objects and penetration of the sole
6.55	In which one of the following circumstances is it appropriate to provide personal protective equipment to employees?
A	Where there are significant risks identified to an individual's health and safety
B	When adequately controlling the risks involved without increasing the overall level of exposure
C	Where the conditions involved increase the likelihood of exposure to uncontrolled hazards
D	As the last resort after all other risk methods and controls have been considered

6.56	Providing personal protective equipment (PPE) should be one of the first considerations after discovering a significant risk to the health of your employees. Is this correct?				
A	Yes - PPE should be one of the first considerations for tackling the immediate risk, while other control measures are being developed				
B	No - PPE should only be considered where a risk has been identified, and it cannot be adequately controlled by other means				
C	Yes - PPE should be a primary consideration for controlling significant risks, in conjunction with technical and organisational means				
D	No - PPE should be only considered as a short-term control measure, as opposed to eliminating the significant risk at source				
6.57	Under the requirements of the Personal Regulations 2022, in order for personal suitable, it must meet which of the follow				
1	It takes account of ergonomic requirements	A 1 and 2 only			
2	It fits after making the necessary adjustments	B 1 and 3 only			
3	It takes account of individual characteristics	© 2 and 3 only			
4	It is freely available in a range of different sizes	D 2 and 4 only			
Total Services					
6.58	Which two of the following criteria must be met in order for personal protective equipment (PPE) to be deemed suitable for use?				
A	It is chosen based on the environment and surrounding conditions				
B	It achieves the maximum assigned levels of protection in practice				
C	It is provided on an individual basis and	cannot be shared with others			
D	It gives maximum protection while ensuring minimum discomfort				
E	It effectively eliminates the specific risk	s for which it has been provided			

6.59	When conducting face-fit testing for respira number of operatives on site, which of the for to RPE performance?	itory pro ollowing	tective equipment (RPE) for a are significant factors in relation
1	That the operatives are clean-shaven, to ensure respirator seals are not compromised	A	1 and 4 only
2	That the operatives' face shapes are considered in the selection of a respirator	B	1 and 3 only
3	That the operatives are given clear instructions on respirator storage and maintenance	C	2 and 3 only
4	That the operatives' medical histories are considered, due to the nature of the test	D	1 and 2 only
6.60	All workers are required to wear mandatory (PPE) on site. How can an employer demons persuade workers to wear PPE at all times?		
A	By supplying a safety data sheet on the benefits of PPE equipment		
B	By telling workers in the site safety induction that this is a site rule		
C	By involving the workers in the process of selecting the PPE purchased		
D	By asking the workers to complete a survey on their preferred choice of PPE		
0.04	Manager had a selection of the selection of		
6.61	Work is being planned on the inside of an open-topped inspection chamber. Due to the nature of the work and the environment, it has the potential to become an oxygen-deficient atmosphere. Certain types of respirators are suitable to be used for this type of work. Is this correct?		
A	Yes - ventilated visors and helmet respirators can be used in oxygen-deficient atmospheres		
B	No - breathing apparatus must be used whe oxygen levels	re there	is the possibility of reduced
C	Yes - powered respirators are suitable to be reduced oxygen levels	used wh	ere there is the possibility of
D	No - breathing apparatus must only be used where there is the possibility of oxygenenriched atmospheres		

6.62	You are due to start work on a project and your employer has asked you to purchase your own personal protective equipment (PPE). Which two of the following are significant regarding this request?				
A	You must not pay for PPE as this is an employer's duty				
B	You must pay for the replacement of damaged PPE				
0	You must pay for the replacement of the	e same it	em of PPE		
D	You must be provided with suitable PPI	E as state	ed in the risk assessment		
E	You must always pay a contribution tow	vards PP	E		
6.63	When selecting personal protective equipment (PPE) which one of the following principles must be considered first?	6.65	Which one of the following must provide personal protective equipment to their workers?		
A	It must be supplied with information of how to use it safely	A	The employer		
B	It must be appropriate for the risks and exposure conditions	B	The designer		
C	It must not affect the performance of the worker	0	The client		
D	It must be adjustable so that it provides a correct fit	D	The project manager		
6.64	Which one of these statements about personal protective equipment (PPE) is false?	6.66	In line with the Personal Protective Equipment (PPE) at Work Regulations which one of the following must workers comply with?		
A	Workers must pay for any damage or loss	A	Maintain PPE in good condition and replace it when it becomes defective		
B	Workers must store it correctly when it is not in use	B	Inform your supervisor of any damage to PPE and replace it at the end of the week		
©	Workers must report any damage or loss immediately	C	Wear PPE every day as access to the site will be denied in line with site rules		
D	Workers must use it as instructed and look after it	D	Supply new PPE every day to offer maximum protection		

OCCUPATIONAL HEALTH, WELLBEING AND WELFARE O7 Dust and fumes (Respiratory hazards)

-				
7.01	Which of the following is the most effective way of preventing or eliminating the presence of respiratory hazards on a construction project?			
A	Providing suitable protective equipment to all workers on site to control residual risk			
B	Ensuring there is a dedicated cutting area provided to avoid dust getting into the air			
C	Using water suppression on all cutting equipment that generates or creates dust			
D	Planning for the manufacturing or cutti	ng of ma	nterials at a location away from site	
7.02	Which one of the following control measures would eliminate air-borne dust from a circular saw?	7.04	Identify two management principles that will control dust hazards in the workplace.	
A	Attaching a suitable extraction unit	A	Any expected exposure must be controlled to an acceptable level	
B	Opening the windows in the area	B	All employees are informed of all control measures in place	
		<u>C</u>	Risk assessments are completed at least two days in advance	
	Fitting a wider cover to the blade	D	All work is done outside in the open to ensure adequate ventilation	
D	Fixing a water suppression system	E	All new starters are informed about the health effects of dust exposure	
7.03	Which one the following can be			
	implemented to prevent respiratory hazards facing a gang of bricklayers?			
A	The introduction of block splitters			
В	The use of respiratory protective equipment			
C	The implementation of task rotation			

The increase in health surveillance

7.05	Identify two potential risks that atomised aerosols can cause in the workplace if not properly controlled.
A	They may carry bacteria which can cause harm to the person exposed
B	They can cause serious harm like legionnaires disease
0	They are toxic by inhalation causing unconsciousness and death
D	They have chronic effects such as causing liver damage or sensitisation
E	They give off vapours at room or low temperatures which are highly volatile
7.06	It is important to control wood dust when cutting or sanding wood because it can cause
A	occupational asthma and nasal cancer
B	emphysema and lung elasticity loss
C	silicosis and scarring of the lung
D	pleural thickening and pulmonary disease
7.07	Construction dusts can cause irreversible health conditions through regular and uncontrolled exposure. Is this correct?
A	Yes. These illnesses normally take many years to become visible and can be paralysing or fatal
В	No. Sites manage and control operations that create dust to minimise exposure to workers
C	Yes. Exposure can cause a range of conditions, including effects such as chronic coughing
D	No. Personal protective equipment is issued to all workers to prevent uncontrolled exposure

7.08	You are chasing out walls inside a small room. Identify two control measures to prevent workers from exposure to airborne dust.			
1	Use the correct on-tool dust extraction/ water suppression and wear a high efficiency face mask like FFP3	A	1 and 2 only	
2	Open the windows and door to allow the dust to escape into the atmosphere this removes the need for a mask	В	1 and 3 only	
3	Use the on-tool dust extraction/water suppression and keep everyone else from entering the room to prevent exposure	0	1 and 4 only	
4	Open the door and windows and wear a face mask when dust starts to build up to prevent or reduce exposure to dust	D	2 and 4 only	
		1-37		
7.09	Identify two control measures that will help area where free movement of air is restricte)
A	Workers must wear personal monitors to wa	arn of ca	rbon monoxide build up	
В	A banksman must be present to warn other	s of the l	puild-up of carbon monoxide	
C	A supervisor must be present, wearing pers	onal mo	nitors to control carbon monoxid	е
D	Air monitoring in the building must be in place to warn of carbon monoxide build up			
E	A risk assessment must clearly specify the acceptable levels of carbon monoxide			
7.10	A worker is using a petrol disc cutter to cut concrete paving slabs. The disc cutter has a suitable dust suppression water bottle, and the operator is not clean-shaven, but is wearing a face mask. Is this adequate protection?			
A	Yes - concrete dust contains very heavy particles, which fall to the ground and cannot enter the airway through a small gap in the mask			t
B	No - a worker could still be exposed, as faci- particles that can be seen by the human eye		nly protects against larger dust	
C	Yes - using the dust suppression water bott from harmful levels of exposure to dust	le will el	minate the risks to the operator	
D	No - facial hair can create an inadequate fit, which will significantly reduce the protection provided to the wearer			

7.11	When conducting a welding fabrication task that involves heating up metal, an occupational health risk is created as the operative could	7.13	One reason why an existing gas installation must be inspected by a gas safe engineer following any refurbishment work is to prevent what type of poisoning?
A	lose their vision permanently from the bright arc created	A	Carbon disulphide
B	inhale fine metal particles causing severe burns to their respiratory tract	B	Carbon dioxide
	burn their skin with hot metal fragments from the flashback created	<u> </u>	Carbon hydroxide
D	inhale microscopic metal particles created by the fumes cooling down	D	Carbon monoxide
7.12	If a young construction worker was exposed to low levels of silica dust over a period of time and has since left the construction industry, the effects of exposure will continue to develop long effort the exposure has	7.14	Which one of the following are the two main types of silicosis workers can suffer from after high levels of exposure to silica dusts in the construction industry.
	develop long after the exposure has stopped, and it is irreversible. Is this correct?	A	Accelerated and acute silicosis
	No. Sufferers are likely to have	B	Atrophied and chronic silicosis
A	severe shortness of breath and the symptoms will improve over time	0	Acute and chronic silicosis
Part Annah di Salah d	Yes. Sufferers are not likely to be	D	Acute and pleural silicosis
B	diagnosed until years after the		
	exposure to silica has occurred	7.15	What must your employer provide concerning silica dusts?
	No. Sufferers usually have breathlessness and a persistent	A	Information on when to use water suppression as a control measure
	cough with phlegm which improves over time	B	Product safety sheets on how to manage and prevent exposure
	Yes. Sufferers usually become	C	Toolbox talks on how to use the tool extraction as a safety measure
	house- or bed-bound and often die prematurely due to heart failure	D	Employee training on the hazards

resulting from any exposure

7.16	Which one of the following is conducted as part of a health surveillance programme in the stone masonry trade?	7.19	Why is it important to ensure that the appropriate respiratory equipment and dust suppression tools are used when cutting cement blocks on site?	
A	Urine test	A	To reduce the chances of the worker contracting silica disease	
В	Chest X-ray	B	To ensure the employer meets the current health and safety legislation	
0	Blood test	C	To reduce the noise exposure to the worker and surrounding people	
D	Eye examination	D	To ensure the employee does not contract lead poisoning from the dust	
7.17	Approximately 600 construction indust every year. Is this correct?	ry worke	ers die from silica-related lung diseases	
A	Yes. Many workers are exposed daily, but may only work for short periods of time on various sites and frequently change employer so it is difficult to establish exposure			
		No. There are an estimated 10,000 new cases of breathing or lung problems caused or made worse by work in the construction industry each year		
B				
B C		n indust	ry each year	
	made worse by work in the construction Yes. They take a long time to develop for	n indust	exposure so current figures reflect the	
	Yes. They take a long time to develop for effects of past working conditions No. Exposure to silica dust has been manual conditions.	n indust ollowing anaged a	exposure so current figures reflect the and controlled in recent years so	
© D	Yes. They take a long time to develop for effects of past working conditions No. Exposure to silica dust has been may workers are no longer exposed to harm	n indust ollowing anaged a	exposure so current figures reflect the and controlled in recent years so	
© D 7.18	Yes. They take a long time to develop for effects of past working conditions No. Exposure to silica dust has been may workers are no longer exposed to harm Which of the following statements described as the statements described by the statement of the stat	n indust ollowing anaged a	exposure so current figures reflect the and controlled in recent years so s	
7.18	Yes. They take a long time to develop for effects of past working conditions No. Exposure to silica dust has been may workers are no longer exposed to harm Which of the following statements described as a long cancer or mesothelioma, so people can live with the disease Asbestosis is a form of lung cancer that is always fatal, with death often	n indust	exposure so current figures reflect the and controlled in recent years so s ne effects of asbestosis are correct? 1 and 4 only	

7.20 A	What health condition might you develop if you work in a dusty environment over long periods of time? Occupational asthma	7.22	After knowingly or unknowingly breathing in silica particles over a long period of time, which of the following conditions are construction workers most likely to suffer from due to exposure to low levels of respirable crystalline silica (RCS)?
B	Occupational dermatitis	A	Chronic effects such as liver damage
		B	Hardening or scarring of the lung tissue
	Skin cancer	C	Severe or chronic occupational asthma
D	Weil's disease (leptospirosis)	D	Diffuse pleural thickening of the lung
7.21	Which of the following statements is the most accurate description of the harm that may be caused by exposure to solvent vapours?	7.23	Which two of the following work processes on site can potentially expose workers to respiratory sensitisers that can cause occupational asthma?
A	They deposit bacteria into the body at locations where the most harm can be caused	A	Spray painting using two-pack paints
	They can often be toxic, causing	B	Cutting slabs, kerbs or concrete
B)	chronic effects or dizziness, unconsciousness and death	(C)	Second fix joinery and carpentry work
	They are hazardous in enclosed		carpentry work
<u>C</u>	spaces, as they quickly build up to dangerous concentrations	D	Oxy-acetylene or oxy-propane welding
	They can cause a range of conditions,		
D	from coughing and sneezing to chronic disease	E	Plant powered by internal combustion engines

7.24	You are about to start work in a confined space, and you will be using an engine-powered generator (110 volts) to power your tools. Which two of the following may be acutely fatal as well as causing long-term consequences such as lung cancer?
A	Carbon dioxide produced by the exhaust polluting breathable air
B	Unburnt hydrocarbons produced by incomplete combustion of the exhaust
C	Hydrogen monoxide produced by engine batteries when the generator is running
D	Carbon monoxide produced by restriction on the movement of air
E	Dihydrogen monoxide producing vapours as the exhaust is heating up

08 Noise and vibration

8.01	What might be the health outcome
	for an individual exposed to noise in
	the workplace?

- Permanent and disabling hearing damage
- Temporary inner-ear imbalance and vertigo
- Long-term chronic earache and infections
- Continually prone to temporary threshold shift
- **8.02** Which one of the following could be an early indication of hearing damage?
- Difficulty having conversations where there is background noise
- Inability to hear vehicle and plant audible warnings
- Needing to increase the setting level of hearing protection
- Having to take longer breaks due to the onset of headaches
- **8.03** Which **two** of the following are true in relation to hearing damage?
- It is irreversible and will not improve
- It can be reversed if caught early enough
- It is only caused by noisy working environments
- It is compounded by the ageing process
- It can be treated with ongoing medication

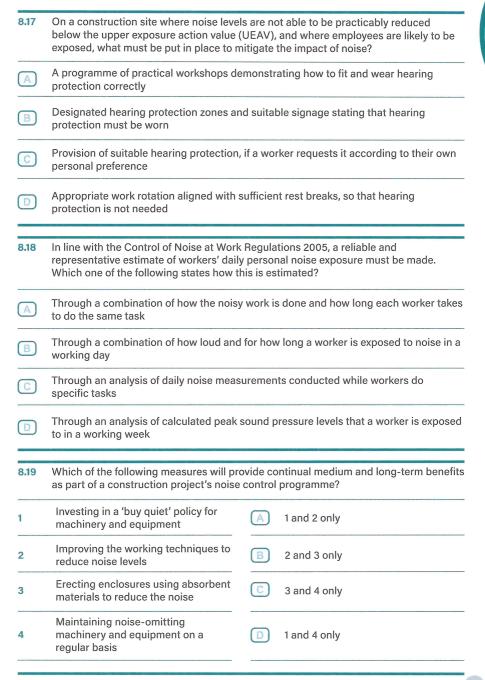
- 8.04 Which one of the following is a consequence for an individual's hearing when exposed to low-level noise over many years?
- Social conversations with a group of people can become difficult
- Psychological problems can develop, sometimes suddenly
- Damage will happen slowly, go unnoticed and result in significant harm
- Some sounds appear identical and this can lead to unclear speech patterns
- 8.05 A large construction project has identified that hearing protection must be worn in certain build sections, and will become a mandatory policy requirement. What are the drawbacks of this policy?
- It will compromise the productivity of workers in these areas
- It will take too much management time to ensure compliance
- It will increase project costs outside of the allocated budget
- It will decrease workers' awareness of all other hazards

8.06 A joinery workshop has a number of old mortise and tenon drilling machines. What could be the main health impact for workers operating these machines if control measures are not in place? Long-term use could have a cumulative effect on the workers' hearing due to the noise of the working parts Long-term use could potentially affect the workers' eyesight due to the small intricate parts of the machine Long-term use could significantly affect overall productivity of the workers, compromising their stress levels Long-term use could negatively affect the workers' postural positioning, leading to lower back and leg strain 8.07 When visiting a site your team needs to complete an inspection that is adjacent to an activity generating a high level of noise, which cannot be stopped. Which one of the following actions would you expect the site manager to apply? A Arrange for a noise assessment to be conducted before the inspection can start B Make hearing protection available to those who ask for it C Issue everyone affected with hearing protection and ensure it is worn D Give a toolbox talk on how to work safely in a noisy working environment 8.08 If you are suffering from whistling and buzzing in your ears, it is nothing to be worried about as it is a consequence of working in a noisy construction environment, and these symptoms will subside. Is this true? A Yes - this is only a temporary and short-term painful condition No - this is only treatable when exposure to noise stops permanently Yes - this is a common industry problem, and no permanent damage will be caused No - this is an early warning of hearing damage, and must not be ignored

8.09	Nuisance noise can cause individuals to suffer physiological effects, but it must not be compared to the effects of excessive or long-term exposure to noise. Is this true?			
A	Yes - nuisance noise is below the level that could damage a worker's hearing			
B	No - nuisance noise is a common cause of noise-induced hearing loss amongst workers			
	Yes - nuisance noise causes severe hea	aring con	nplications amongst workers	
D	No - nuisance noise can easily be contr	rolled to	remove the impact on workers	
8.10	A recent health survey has identified th tinnitus, and there are concerns about h them. Which one of the following stater	now the	working environment might affect	
A	The hearing protection they were issued with will have to be changed to units that have been specifically manufactured to soothe the buzzing symptoms			
B	The job activities they usually undertake will have to be rotated, to ensure that they are only exposed to low levels of noise: otherwise, the buzzing symptoms will worsen			
	They will need to take longer to complete their daily activities, as the buzzing symptoms will be heightened, which will affect their concentration levels			
D	The background noises of the site envir symptoms, so day-to-day activities will		,	
8.11	To manage noise levels during construction activities, which one of the following hierarchical approaches should be adopted?	8.12	When it is not reasonably practicable to remove noise hazards, and a level of noise remains, which one of the following must be provided?	
A	Source, path, receiver	A	Suitable training and awareness	
B	Risk, source, control	B	Suitable risk monitoring	
C	Source, selection, maintain	C	Suitable hearing protection	
D	Identify, manage, monitor	D	Suitable acoustic barriers	

OCCUPATIONAL HEALTH, WELLBEING AND WELFARE

8.13	When choosing suitable personal protective hearing equipment, which one of the following protection factors is important?	8.16	A health surveillance programme has identified that a number of site-based employees have suffered hearing loss. Which two of the following
A	It must ensure that all noise is continually eliminated		actions must the employer now take?
B	It must eliminate risks from noise to an acceptable level	A	Repeat the audiometry test again in six months
C	It must magnify certain sound frequencies over others	***************************************	
D	It must ensure comfort and durability when working	B	Advise the employees to speak to their doctors
8.14	Which one of the following must an employer do if workplace noise levels are at or above the exposure limit value of 87 dB(A)?	0	Refer them to a doctor or specialist for examination
A	Conduct daily noise assessments to gather more data		Review all the noise-related
B	Issue hearing protection with higher attenuation levels		risk assessments
©	Deliver training sessions on how to manage and control	E	Maintain the surveillance records and
D	Identify and adjust organisational and technical measures		disclose if required
8.15	You are standing in a busy section of the approximately one metre away from each hold a conversation. Why is this happen	ch other,	
A	The quantity surveyor has hearing aids in both ears, and this is being accounted for as the noise level is only 70 dB(A)		
B	You are standing too far apart, and need to be much closer to engage in clear conversation, as the noise level is around 85 dB(A)		
C	Hearing protection is being worn, but the noise level is above 87 dB(A)	ne ear pr	otectors have been damaged, and the
D	Hearing protection is not being worn in the noise level is at 90 dB(A)	line with	n the risk assessment for this area, and



8.20

OCCUPATIONAL HEALTH, WELLBEING AND WELFARE

provided. Is this correct?

	provided. Is this correct?		
A	Yes, because the manufacturers data provides only guidance on personal noise exposure, and there are many other factors that affect noise levels		
B	No, the data provided by the manufacturer is extremely accurate as they conduct a range of noise tests to ascertain personal noise exposure levels		
©	Yes, as the data must be representative of how the equipment will be used so appropriate training and awareness programmes can be developed		
D	No, as manufacturers must comply with the Provision and Use of Work Equipment Regulations 1998 and always provide accurate noise exposure data		
8.21	Which one of the following is a symptom of hand-arm vibration syndrome (HAVS)?	8.23	Which one of the following will trigge the vascular symptoms of hand-arm vibration syndrome?
A	Uncontrolled movement in the wrists and fingers	A	Frequency of tool use
B	Contagious blistering on the hands and arms	В	Posture of the tool user
C	Increased level of dry skin between the fingers	C	Working in cold temperatures
D	Reduced strength in the hands and fingers	D	Limited manual dexterity
8.22	Why is overexposure to vibratory tools and equipment a serious issue?	8.24	When using a disc cutter, which one of the following might increase the vibration levels?
A	Its impact and severity on long-term health is still unknown	A	The user maintaining a tight grip on the tool
B	There are no early warning symptoms so damage cannot be mitigated	B	The tool being operated on its highest setting
C	The associated health conditions are difficult to assess and diagnose	C	The tool's disc always being sharp and clean
D	It can cause permanent and disabling health conditions	D	The user being relaxed whilst operating the tool
DECEMBER OF THE PARTY.			

When referring to manufacturer's noise data about equipment, it is the employers

responsibility to ensure further information on how it will be used in the workplace is

8.25	Following a health surveillance programme conducted on site, the analysis of results has indicated that a number of workers are suffering from musculoskeletal symptoms linked to hand-arm vibration syndrome (HAVS). Which one of the following conditions would have led to this conclusion?
A	Loss of sensation in the fingers and hand
B	Degeneration of the upper-arm rotator cuff
0	Blanching of one or all of the fingers
D	Limited, or loss of, manual dexterity in the hands
8.26	Operatives who have been diagnosed with stage 2 hand-arm vibration syndrome (HAVS) have been given advice on how to minimise their vascular symptoms. Which two of the following will help the operatives to control these symptoms?
A	To stop cigarette smoking, or cut down on intake
B	To take more rest breaks during the working day
C	To keep warm and dry in cold and damp weather
D	To wear anti-vibratory gloves when appropriate
E	To hold the correct posture when operating a tool
8.27	You observe an operative needing to apply considerable pressure while operating a road-breaking drill to break up part of a road. Which one of the following effects of this activity, and ensuing health risk, would occur?
A	The noise levels of the tool, affecting their hearing sensitivity
B	The sparks created by the tool, resulting in third-degree burns to their skin
<u> </u>	The vibrations through the tool, creating hand-arm vibration syndrome
D	The heat created by the tool, creating a short circuit and giving them a minor shock

8.28

OCCUPATIONAL HEALTH, WELLBEING AND WELFARE

action value (EAV) and the exposure limit value (ELV) need to be adhered to. Which one of the following explains how they are measured? By using the tool manufacturer's vibration exposure data to establish an accurate A trigger time limit for workers By observing workers using vibratory tools and equipment, and using the data В gathered to manage the exposure limits By analysing a combination of the vibration at the grip point on the tool and the time a worker spends gripping the tool By calculating the tool's vibratory output at varying speeds, compared with the hours a worker has spent operating it 8.29 Which of the following are neurological hand-arm vibration syndrome (HAVS) symptoms? Numbness and tingling in the fingers 1 and 2 only Reduced sense of touch 2 2 and 3 only and temperature Muscle fatigue and loss of grip 3 3 and 4 only Finger blanching and red throbbing 1 and 3 only 8,30 It is recognised that symptoms of hand-arm vibration syndrome (HAVS) may be intermittent, but with continual exposure to vibration, they could become prolonged or even permanent. Is this true? Yes - and if the symptoms become permanent, it is very unlikely that they will cause any physical pain or psychological impact No - the onset of symptoms is immediate, and there is no prior warning for the individual to try and minimise the impact Yes - continual exposure can become a permanent condition, and will cause pain, distress and sleep disturbance No - although the symptoms come and go, it would only be temporary as it is treatable with medical intervention

To help control the effects of hand-arm vibration syndrome (HAVS), the exposure

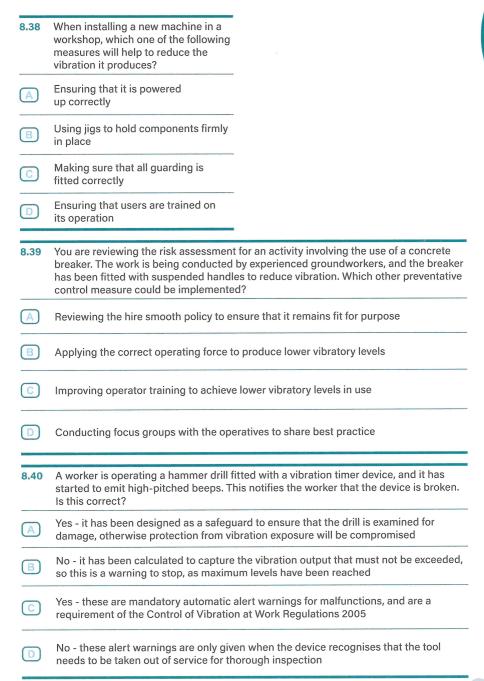
8.31	Which one of the following should be implemented when it is not possible to remove vibration from a work process?	8.33	Which one of the following is the most effective way of controlling vibration exposure on a construction site?
A	Adoption of a purchase or hire smooth policy	A	Using equipment with low vibration output
В	Limitation on individuals daily trigger time	B	Limiting the operatives trigger time
0	Encouraging individuals to disclose symptoms	0	Maintaining equipment so it remains efficient
D	Issuing of anti-vibration gloves	D	Changing the process and avoidance
8.32	A health surveillance programme in place for workers who are exposed to vibration will need to include individuals who have been diagnosed with hand-arm vibration syndrome, even when exposed to levels below the exposure action value.	8.34 (A)	When a risk assessment has identified that workers are at risk from vibration exposure, which one of the following must their employers implement?
	Is this correct? Yes - it is an employer's duty under		A series of toolbox talks to explain vibration-control measures and symptom awareness
A	the Control of Vibration at Work Regulations 2005		A control programme to reduce exposure to below the exposure
B	No - as the upper exposure action value is not being exceeded, the risk is controlled	B)	limit value
<u> </u>	Yes - as it is more cost-effective to include this group of workers in vibration health surveillance	©	A safe system of work based on tool rotation and trigger-time durations
D	No - it is medically assessed and monitored outside of the Control of	D	A data analysis programme to contro all exposures above the action value

monitored outside of the Control of Vibration at Work Regulations 2005 8.35

OCCUPATIONAL HEALTH, WELLBEING AND WELFARE

0.33	one of the following must they do?
A	Speak to their supervisor, so that they can be allocated work that does not involve vibrating hand tools
В	Inspect their vibrating hand tool for damage, and then ensure that it is correctly stored before next use
0	Change their hand tool for a less-vibratory tool that doesn't require exposure points to be allocated
D	Log their vibration exposure points on the central recording system, and leave site for the day
8.36	Following health surveillance on site, it has been established that a number of operatives are being negatively affected by vibration. Which two of the following must the employer now do?
A	Look at the practicalities of reassigning the operatives to other work that does not involve vibration
B	Review current control measures in line with any advice given by the occupational health professional
C	Speak to the operatives and explain their results, and that they will be re-tested in three months
D	Remove the operatives from vibratory work tasks for one month, and then gradually re-introduce them
E	Speak to all other operatives so they can be made aware of the consequences of vibration exposure
8.37	A group of operatives are using hand-held breakers to break up a pavement ready for landscaping. How can this activity be controlled to ensure that the health of the workers is not compromised?
A	Check that the equipment has been regularly serviced before use, and that any vibration-resilient components have been replaced
B	Check that the operatives keep a diary recording their daily tool output, in order to protect the company from future claims
0	Check that, as part of the risk assessment process, individual vibration exposure levels are matching the manufacturer's data
D	Check that the operatives are issued with anti-vibration gloves, and that these are worn when operating the equipment

When an operative has reached their agreed vibration exposure points level, which



OCCUPATIONAL HEALTH, WELLBEING AND WELFARE 09 Hazardous substances

9.01	Plumbers are removing lagging around pipes to repair a leak in a Victorian building. What is the significant risk to workers' health in carrying out this work?	9.03	Exposure to asbestos can cause which of the following three related health diseases?
		A	Asbestosis
A	They are disturbing asbestos fibres that can be inhaled	B	Bronchitis
В	They are releasing flying fragments that can injure a person	C	Silicosis
C	They are disturbing bacterial-filled water that can cause infection	D	Mesothelioma
D	They are disturbing the dust gathered that can irritate eyes	E	Pleural thickening
9.02	When asbestos fibres are breathed in at a young age and no further exposure occurs, this allows the lungs to recover and reduces the development of an asbestos related disease. Is this true?	9.04	What illness could a worker develop if they breathe in asbestos dust?
		A	Weil's disease
	Yes, this will allow enough time for the lung and chest lining tissues to fully recover	B	Pneumoconiosis
٣		0	Mesothelioma
B	No, timescales of exposure to fibres have no relevance in the development of future health disease	D	Occupational asthma
-		9.05	You have been asked to carry out alterations on a building built before the year 2000. What would be your first consideration?
C	Yes, it depends on the type of asbestos fibres inhaled as to whether a future health issue will develop	A	The building could contain fibreglass insulation
		В	The building could contain asbestos-based materials
D	No, inhaling fibres at an early age greatly increases the chances of developing an incurable disease	©	The building's finishings could be painted with lead paint
ت		D	The internal walls could be made from lath and plaster

09

9.06	Why is it important to ensure all workers attend asbestos awareness training?		
A	To ensure workers meet the company's asbestos-related health and safety standards		
В	To enable workers to identify potential asbestos-containing materials and to know what to do		
0	To give workers enough knowledge to be able to remove the asbestos-containing materials		
D	To keep workers training records up-to-date and in line with legislative information		
9.07	An electrician needs to run cables to create a new lighting circuit over asbestos sheeting in poor condition. What must be followed to ensure compliance for this type of work?		
A	This is notifiable non-licensed work and specific processes must be followed		
B	This type of asbestos material must be subject to sampling by a specialist		
0	This is licensed work and must be carried out by a qualified registered company		
D	This type of work must comply with current electrical standards and be certified		
9.08	When an asbestos refurbishment survey needs to be conducted it should be based on the		
A	project's schedule		
B	access limitations		
<u></u>	project's requirements		
D	surveyor's fees		

9.09	Which of the following is true regarding the risks from asbestos?		
1	The earlier the date of first exposure, the greater the chance of recovery	A	1 and 2 only
2	The most friable materials need higher levels of control	B	2 and 3 only
3	Mesothelioma can be curable if treated with chemotherapy	C	3 and 4 only
4	If not disturbed or damaged it may not need removing	D	2 and 4 only
9.10	Why are cement-, mortar- and concrete-based materials hazardous to health?	9.12	Which one of the following is the least likely to cause skin problems?
A	They can cause dizziness and headaches	A	Asbestos
B	They can cause skin burns and irritant dermatitis	B	Bitumen
C	They can cause muscle aches and spasms	<u>C</u>	Cement
D	They can cause skin sores and abrasions	D	Concrete
9.11	You have observed that the site mechanic carrying out repairs to the hydraulics of the 360° excavator is not wearing the correct protective gloves. What significant dangers are they being exposed to?		
A	They are increasing their chances of having an anaphylactic shock		
B	They are increasing their chances of getting Raynaud's disease		
0	They are increasing their chances of getting skin cancer		
D	They are increasing their chances of nerve damage to the fingers		

9.13	Site operatives have finished laying slabs, and need to wash out the buckets that have stored the wet concrete. Which one of the following actions could they take which would not reduce their exposure to burns from this process?				
A	Using the correct cleaning agent along with hot water				
B	Reducing the total amount of time taken to carry out the task				
C	Using suitable washing and changing facilities afterwards				
D	Wearing appropriate personal protective	e equipr	nent		
	No.	0.40	Which of the following two main		
9.14	Why do cement and concrete burns pose such a serious risk to workers' health?	9.16	Which of the following two main health risks can be caused by working with wet cement and concrete?		
A	They can damage skin nerve endings very quickly	A	Headaches		
B	They can increase body temperature rapidly	B	Dizziness		
<u> </u>	They can cause a loss of consciousness	<u>C</u>	Skin burns		
		D	Dermatitis		
D	They can spread to other parts of the body	E	Abrasions		
9.15	Workers are washing out cement buckets on site. What is the main risk to their health?				
A	Respiratory difficulties				
B	Skin cancer				
0	Flu-like symptoms				

Burns to skin

9.17	Workers are screeding a wet concrete floor by hand. Which two of the following will help to reduce the potential health affects from this activity?		
1	Portable air extraction units	A 1 and 2 only	
2	Appropriate wellington boots	B 2 and 3 only	
3	Suitable washing facilities	© 3 and 4 only	
4	Rubber handled tools	1 and 3 only	
9.18	You are delivering a health and safety l concrete pour. Does this work carry a r	oriefing to operatives involved in a scheduled isk to the operatives' health?	
A	Yes - wet concrete can cause severe b long-term damage	urns that can kill nerve endings, resulting in	
В	No - wet concrete can cause skin irritation and redness, but this is only temporary and it will clear up		
©	Yes - wet concrete can cause burns to the skin's surface, but these are easily healed with medication		
(D)	No - wet concrete is an alkali-containing substance, so it is safe if contact is made wit the skin		
9.19	Painters are using the correct process and suitable personal protective equipment to remove old lead paint work within a domestic property. What is the next main priority?		
A	Ensure workers have a suitable location for rest breaks outside of the working area		
B	Ensure property owners do not enter the working area until complete and the area cleaned		
0	Ensure there are suitable and sufficient	welfare facilities for the workers present	
D	Ensure barriers and signage are erected to stop any unauthorised access to the working area		

9.20	Which three construction activities are most likely to result in a worker being exposed to lead?	9.22	Which one of the following tasks would not expose a worker to lead fumes?
A	Stripping old paint from windows and doors	A	Burning off old paint with a hot-air gun
B	Disturbing sprayed coatings	B	Soldering heating pipes
C	Repairing old gutterings	<u> </u>	Removing old loft insulation
D	Hot-cutting during demolition		nemoving out for insulation
E	Cutting slabs, kerbs and concrete	D	Working inside tanks that contained petrol
9.21	It is regarded as good practice to remove old paint work by using a gas torch. Is this true?	9.23	Which one of the following could be a consequence to roofers who regularly repair lead flashings on properties?
	No, this type of material is highly resistant to flame and only sanding can remove it	A	Long-term bronchitis through prolonged periods of working outdoors
(A)		B	Long-term musculoskeletal disorders due to manual handling
		C	Long-term health issues relating to the exposure to asbestos
B	Yes, this is the safest and quickest way to remove this toxic material from timber surfaces	D	Long-term health issues relating to the exposure to a toxic material
	No, this process should never be	9.24	Painters are preparing paintwork in an old property by dry sanding. What is the significant risk to health from this process?
C	used on this material because it releases toxic fumes	A	Exposure to flying fragments
		B	Exposure to excessive noise
D	Yes, this allows all the material to be fully removed and reduces the need for sanding	0	Exposure to prolonged vibration
٣		D	Exposure to toxic dust

9.25 A painter is using a hot-air gun set at 9.28 Breathing in dust produced from over 360°C to remove old paint from using a masonry saw to cut concrete a timber frame window. What major blocks slabs could result in which health risk could they potentially be one of the following diseases? exposed to? Silicosis They could be at risk of inhaling asbestos fibres Legionnaires' They could be at risk of receiving third-degree burns C Ashestosis They could be at risk of inhaling lead fumes They could be at risk of being Leptospirosis D exposed to heat radiation 9.26 What are the two reasons why painters and decorators are advised to wet sand paintwork? To produce a superior quality finish 1 and 2 only To reduce the risk from cuts 2 2 and 3 only and abrasions To stop possible toxic dust 3 3 and 4 only becoming air borne To reduce the noise levels from D 1 and 3 only the process 9.27 A risk assessment for demolition 9.29 What is the next biggest health risk to work has identified a low exposure construction workers after asbestos? and concentration level of leadbased materials. What additional Leptospirosis steps must be put in place by the employer to reduce health risks? Monitoring and recording the B Silicosis exposure levels of all workers Displaying suitable warning signs highlighting the health risks C Legionnaires' Cleaning all personal protective equipment after use **Bronchitis** Stopping eating, drinking or smoking in contaminated areas

09

9.30	Labourers are not following the safe system of work issued and have decided to dry sweep an area where stonemasons have been cutting sandstone blocks. Why is the process of dry sweeping creating a significant risk to their health?
A	The sandstone dust can cause sensitising dermatitis
В	The escape of silica dust can cause lung cancer
C	The mixture of all ground dusts can cause respiratory asthma
D	The bending action can cause musculoskeletal disorders
9.31	The three main effects that inhaling respirable crystalline silica (RCS) can have on a person's health is that they can develop
A	lung cancer
B	heart valve disease
C	chronic obstructive pulmonary disease
D	deep vein thrombosis
E	silicosis
9.32	Workers exposed to low levels of respirable crystalline silica (RCS) over a prolonged period will have no long-term health issues. Is this correct?
A	Yes, this will have no effect on the person because the levels are minimal
В	No, inhaling even a small amount of toxic material can affect a person's digestive system
0	Yes, this long timeframe allows the body to recover and re-grow damaged tissue
D	No, there is a risk that this will cause hardening and scarring of the lung tissue

9.33	Exposure to respirable crystalline silica (RCS) is harmful to a worker's health as it can.			
A	increase the risk of kidney disease			
B	cause deep burns and damage nerve endings			
<u>C</u>	develop into acute asthma that is not r	eversible		
D	cause reoccurring eye infections that r	equire su	ırgery	
9.34	You are writing a risk assessment for t the main tasks to be controlled is the r following, if not controlled sufficiently,	emoval o	ishment of an old bathroom, and one of f tiles from the walls. Which one of the the main health hazard of this work?	
A	If the tiles are broken into sharp fragments, they could puncture the skin, causing hepatitis			
B	If large dust clouds are created and then inhaled, there is a chance of contracting asbestosis			
<u>C</u>	If bare skin makes contact with dirty tiles, then bacteria can be ingested, causing psittacosis			
D	If fine dust particles are created and inhaled, there is a chance of contracting silicosis			
0.25	A normalism of constitution in the state of			
9.35	A number of workers have been diagnor disease. Which of the following activition years that have caused them to develo	es have th	ney been undertaking over a number of	
1	Intricate stonemasonry work	A	1 and 2 only	
2	Abrasive blasting of concrete	В	3 and 4 only	
3	Removal of pipe lagging	© 	2 and 3 only	
4	Digging of excavations	D	1 and 4 only	

9.36	You are writing the risk assessment for stonemasons who are working on a historical restoration project, which involves carving and removing rock, sand and clay. Which one of the following would you list as the main health hazard?			
A	The inhalation of fine dust when shaping materials can cause breathing difficulties and acute silicosis			
В	The moving and handling of materials into position can cause muscle fatigue and back injuries			
C	The constant hitting of materials with various hand tools can result in acute tendonitis			
D	The manipulation methods used to sh penetrate skin	ape mate	ials create fine fragments that can	
9.37	Which one of the following is not a key stage of a control of substances hazardous to health (COSHH) risk assessment?	9.39	Work procedures for decorators need to be changed from applying paint by hand, to using a spray application. What main document needs to be	
A	Eliminate the use of the substance		reviewed before these changes can be implemented?	
B	Identify who is at risk from the substance	A	The provision and use of work equipment risk assessment	
		B	The material safety data sheets	
(C)	Erect suitable warning signs on storage areas	C	The health surveillance guidance	
D	Identify the hazardous substances	D	The control of substances hazardous to health risk assessment	
9.38	If it is not reasonably practicable to prevent exposure of workers to substances hazardous to health, which of the following must be considered first?			
A	The instruction, training and supervision required	-		
B	The use of sufficient control measures to control exposure			

The introduction of health surveillance arrangements

The continual monitoring of workers exposure

9.40	supplier. What could happen if this is done before reviewing the current control of substances hazardous to health (COSHH) risk assessment?
A	Workers may be exposed to new elements that can damage their health
B	Workers may find that is not suitable for the purpose intended
C	Workers could take longer to apply it as the consistency is different
D	Workers could apply the PVA incorrectly as they have not had the suitable training
9.41	The mechanical engineer on site is planning to use a water-based hydrocarbon solvent for cleaning and degreasing plant components. Which two significant details must they be made aware of?
A	The substance needs a licence to use
B	The substance is corrosive
C	The substance crystalises after application
D	The substance is harmful
E	The substance is highly flammable
9.42	A new degreasing agent is going to be used in a plant machinery workshop. Which one of the following needs to be considered before it is introduced?
A	The workshop's control of substances hazardous to health safe systems must be reviewed before any further work is completed
В	The competent person must review all the current control of substances hazardous to health risk assessments
©	The health and safety manager must be informed to update the control of substances hazardous to health working procedures
D	The current control of substances hazardous to health risk assessment must be reviewed by a competent person

09

9.43	Before a joiner can cut hard wood using a table saw, the task requires completion of a control of substances hazardous to health (COSHH) assessment. Is this true?			
A	No - this would only require an assessment of the safe use of the machinery			
B	Yes - the assessment would consider the dust levels created by the machinery			
C	No - this would only require an assessment of the electrical element of the machinery			
D	Yes - the assessment would consider the noise levels	created	by the machinery	
9.44	You have been made aware that workers on site are using a highly-toxic cleaning agent unsafely, and you are not certain if the necessary paperwork is in place. Which two of these options are the first you must implement to reduce the risks to these workers?			
1	Review the personal protective equipment (PPE) being worn by workers, and make them aware of the hazards	A	1 and 2 only	
2	Erect appropriate barriers to stop any unauthorised access to the work area, and display warning signs	B	2 and 3 only	
3	Stop the work immediately, ask the workers to leave the area and thoroughly ventilate the workspace	C	3 and 4 only	
4	Instruct a competent person to carry out a control of substances hazardous to health (COSHH) risk assessment	D	1 and 4 only	

9.45	You are writing the control of substances hazardous to health (COSHH) risk assessment for joiners using adhesives to fix materials on site. Which one of the following is not a significant factor when considering personal protective equipment as a risk control?			
A	It provides ultimate protection, and reduces the need for health surveillance checks			
В	It makes good occupational health and business sense to eliminate its purchase and use			
C	It only protects the wearer, and requires management efforts to ensure that it is used correctly			
D	It is expensive and unpleasant for the workers to wea	r, and b	ulk purchasing is require	

9,46 Inhaling old mould spores during 9.49 From the list below, select three demolition work can expose ways that harmful substances can workers to which one of the enter the human body. following diseases? A Absorption Aspergillosis Ionisation Leptospirosis Inhalation D Legionnaires' disease Metabolism D Silicosis Injection A painter is using a highly-pressurised airless spray gun to apply paint to a large 9.47 volume of walls and ceilings. Which one of the following is a major health risk of this work? The potential for a respiratory condition to develop from the release of hazardous fumes The potential for loss of hearing due to the noise levels omitted The potential for nerve damage to develop from the high level of vibration exposure The potential for loss of a finger, hand or arm due to fluid injection 9.48 Absorption of a hazardous substance happens when it... passes through the stomach after digestion, then into the blood stream passes through unbroken skin or cuts, then into the blood stream passes through the skin by piercing, then entering the blood stream passes through the lungs by breathing in, then filters into the blood stream

9.50	a sewerage system. Why is it important to compare that they are wearing, and to ensure that the good hygiene routines for this activity?	onsider	the personal protective equipment
1	To reduce the risk of cross-contaminating canteen and office facilities	A	1 and 2 only
2	To reduce the risk of viruses spreading into common working areas	B	2 and 3 only
3	To reduce the risk of absorption of organisms through cuts and scratches	C	3 and 4 only
4	To reduce the risk of a needle-stick injury from a discarded hypodermic needle	D	1 and 4 only
		isangeleden zansor	
9.51	A group of groundworkers are digging found on a brownfield site. Why is it significant to covering up any cuts or skin abrasions before	reinforce	the importance to the workers of
A	They can be at risk of contracting swine flu, if wounds were to come into contact with stagnant water		
B	They can be at risk of contracting tetanus bacteria found in the soil, if it was absorbed through wounds		
C	They can be at risk of contracting the hepatitis virus, if they allow the wounds to get dirty		
D	They can be at risk of contracting septicaemia, if the wounds become infected with contaminants		
9.52	Workers exposed to sandstone containing 7 serious health conditions if they absorb the Is this correct?		
A	Yes - this substance is very corrosive, and can quickly burn through skin upon contact		
В	No - this substance has no negative effects,	as it ca	nnot be broken down
0	Yes - this substance, when in contact with e	exposed	skin, is highly irritant and toxic
D	No - this substance creates harmful dust, causing long-term lung damage when inhaled		

-				
9.53	You are reviewing the risk assessment for an engineer who is carrying out a soldering task. They are wearing suitable eye protection and an FFP1 dust mask. What is the significant risk posed to this individual in wearing this type of equipment?			
A	It will not prevent them from inhaling the harmful toxic fumes generated when carrying out this task			
B	It will fully protect them against inhaling the toxic fumes and against all potential health risks from this task			
0	It is not compatible with the eye protection worn for this task, reducing protection against hazardous fumes			
D	It can deteriorate very rapidly if any hot through to the worker	fumes c	come into contact with it and can burn	
9.54	Painters and decorators working on old entering their body by which of the follows:			
1	Injection through the skin by the tiny sharp particles created during sanding	A	1 and 2 only	
2	Absorption through the skin by directly touching it with fingertips	В	2 and 3 only	
3	Ingestion if it is on the hands during eating, drinking or smoking	C	3 and 4 only	
4	Inhalation of the fine dust particles created by the sanding process	D	1 and 4 only	
9.55	Which two of the following are not stated in a control of substances hazardous to health (COSHH) risk assessment?	9.56	What procedure must employers put in place if a worker is liable to be exposed to substances hazardous to health?	
A	Properties of the substance	A	Appropriate medical insurance	
B	Local toxic waste disposal sites	B	Access to a health physician	
C	Activities that create high exposure			
D	Meanings of symbols on the substance		Appropriate health surveillance	
E	Information on health effects	D	Access to mental health support	

9.57	What is the main purpose of carrying out health surveillance on employees who regularly work with hazardous substances?	9.60	large suita impl	a joinery workshop that assembles orge quantities of hardwood doors, uitable control measures have been aplemented following a control	
A	To detect any medical problems as early as possible		(Co	substances hazardous to health OSHH) assessment. Which one the following would be the	
B	To allow appropriate first-aid equipment to be in place	-	116	xt stage?	
0	To identify changes needed to substance suppliers	A		update the assessment within the xt six months	
D	To protect against future medical compensation claims				
9.58	The painters on site are using two- pack epoxy paint. Which significant procedure must their employer ensure is in place?	B		carry out regular monitoring utines to ensure efficiency	
A	A job rotation system to minimise and control exposure	C		inform all first-aiders of the tential health risks identified	
B	A training programme to ensure safe and proper use of the product				
C	A first-aid course addressing what to do if any product touches their skin	D	\$	issue the assessment to all	
D	A health surveillance programme to detect and record any health effects		aff	ected operatives	
9.59	A control of substances hazardous to h substances used on site are a significa put in place for the health surveillance	nt haza	ard. W	hich two of the following must be	
1	Retention of heath records for a minin of 25 years from the date of first entry	num	A	1 and 2 only	
2	Retention of health records for a mini of 40 years from the date of last entry	mum	B	2 and 3 only	
3	Recording of any medical decisions or restrictions by an occupational health professional	r	©	3 and 4 only	
4	Recording of confidential medical information provided by a general practitioner		D	1 and 4 only	

9.61 You are co-ordinating the clean-up process of a hazardous substance spillage on site. The correct personnel protective equipment (PPE) has been issued to the workers involved - it is important that these workers also maintain a high standard of personal hygiene whilst carrying out this work. Is this correct? Yes - it ensures that the PPE issued is kept clean and maintained properly, and can be safely used by other workers after the completion of the task No - employers cannot insist that employees keep themselves clean whilst at work, and the PPE covers them up whist completing the task Yes - it ensures that cross-contamination is significantly reduced after the PPE is removed, supporting control measures for the task No - this has no impact on the quality of work that employees produce, as long as they wear the PPE correctly when completing the task 9.62 A team of labourers need to undertake work activities within a segregated area of the site, which will require the use of hazardous substances. What must now be implemented to ensure that these hazardous working activities are effectively controlled? Constant supervision during the tasks, to ensure that workers are adhering to the safe system of work Toolbox talks, to make workers aware of how to identify a toxic material and how to use it safely Training sessions, to provide workers with information on how to act safely in the event of a toxic spillage Instruction and training, to raise worker awareness of the dangers of exposure and the D precautions to take 9.63 Which one of the following details 9.64 Under the Control of Substances Hazardous to Health Regulations must be included in a safe system of work before using a (COSHH) 2002, which one of the following legal requirements is an hazardous substance? employer not expected to do? Identify harmful substances that may Information on required training be present in the workplace Establish how workers will be Information on health effects exposed to the materials and be harmed Information on Provide monitoring and health environmental impacts surveillance when appropriate Facilitate training sessions on the Information on the supplier risks of exposure to lead

9.65 How often must a control of substances hazardous to health (COSHH) risk assessment be updated? Regularly to take into account any changes in the workplace At the same time as all the other site risk assessments Annually on the date of first purchase of the substance When new stock of the same D substance has been purchased 9.66 The main purpose of using the global harmonised system for the classification and labelling of chemicals is to provide... as much information as possible using as many pictograms as necessary clear information for the protection of humans and the environment easy identification of toxic substances for people from diverse backgrounds less written information on the contents and effects of the substances 9,67 A quantity of new hazardous substances have arrived on site and they have been stored together without referencing the safety data sheets. Which one of the following could be a consequence? They could get mixed up with old stock and affect application They could react with each other and cause a major incident They could be logged incorrectly and alter stock control records They could be unsafely stacked and

overloaded resulting in spillage

9.68 You are writing a control of substances hazardous to health (COSHH) risk assessment. How could the safety data sheet that accompanies the substance help you? By confirming how much material can be effectively applied per square metre to A complete the task By determining the type and correct compatibility of the personal protective equipment required By identifying the possible health implications and severity of risk posed to those using the material By establishing that the quantities purchased are sufficient in number for completing the task 9.69 During the early stages of site set-up, which of the following must be considered first regarding the storage of hazardous substances? The location of the 1 1 and 2 only storage containers The segregation requirements 2 and 3 only 3 The access and egress for delivery 3 and 4 only The supply level requirements 1 and 4 only 9.70 A large quantity of hazardous substances have been delivered to site. Is it acceptable to store them all together before a control of substances hazardous to health (COSHH) assessment has been completed? Yes - but only for a duration that does not exceed 48 hours from their delivery No - the correct chemical inventory data must be checked for В segregation requirements C Yes - as long as material safety data sheets have been obtained for each substance No - dedicated site storage areas will have lists of substances that can be kept there

9.71 When conducting a health and safety inspection on site, you have concerns about the incorrect storage and segregation of a sub-contractor's hazardous materials. Which of the following three are significant factors that have led to this issue? A Storing substances in the wrong type of area В Keeping inconsistent records about the substances C Estimating the wrong quantities required D Using inaccurate identification labels on containers E Purchasing the incorrect substances F Issuing too many keys for the storage area You are in charge of setting up a new construction site. What must be done when 9.72 a Control of Substances Hazardous to Health risk assessment has determined that certain substances on this site will need to be stored separately? Create a suitable storage area, with adequate ventilation and extraction facilities, to hold all identified materials within the zone Install a suitable storage area, with boxes to hold appropriate safety equipment for material use stored within the zone Identify a suitable storage area, and check the materials' compatibility with others to be stocked within the zone Make sure a suitable storage area is positioned next to the site office, and that segregation shelves are installed within the zone

OCCUPATIONAL HEALTH, WELLBEING AND WELFARE 10 Manual handling

10.01	A groundworker has been carrying cement blocks from one area of the site to another, and is now complaining of mild back pain. What is the first action you should take, as their manager, to reduce any further strain on the worker's back?				
A	Arrange for the blocks to be dropped off nearer where they are required on site				
B	Provide the worker with thicker gloves and a back belt for support				
0	Ask another worker to help so that the task can be shared				
D	Arrange for the cement blocks to be ex	changed for blocks made of a lighter material			
10.02	Which two of the following would be pr handling lifting activities?	iorities before carrying out any manual			
1	Discussions with the workers about the risks involved in the task	A 1 and 2 only			
2	A full risk assessment of the task, with the results recorded	B 2 and 3 only			
3	Checking and logging the delivery of the load before unloading starts	3 and 4 only			
4	The installation of extra barriers and signage around the site loading area	1 and 4 only			
10.03	What do the Manual Handling Operations Regulations 1992 require an employer to do?				
A	Manage, control and reduce the risk of injury				
В	Allow employees to assess their own abilities				
C	Identify and list all heavy loads on site				

Make employees accountable for

their own operations

10

10.04	From the list below, select the four main factors that need to be considered when assessing a manual handling operation.		
A	Individual		
B	Environment		
	Time		
D	Load		
E	Equipment		
F	Task		
G	Length		
10.05	A worker has come to you with concerns about the load they have been asked to move. They think it might be too heavy for them; they cannot divide it into smaller parts; and there is no one to help them. What would you advise them to do?		
A	Do nothing until a safe method is identified		
B	Instruct the forklift operator to help them lift the load		
O	Try to use the correct lifting method		
D	Lift and move the load quickly		
10.06	In a manual handling risk assessment, whic when assessing each worker's suitability to		
A	Individual's physical suitability		
B	Capacity of understanding		
(C)	Person's training and knowledge		
D	Individual's weight		
E	Health records and previous injuries		
F	Individual's height		

10.07	a roof, what must you do?		
A	Find out why they are doing it like that and change the risk assessment accordingly		
B	Identify who started doing it that way and issue them with an on-the-spot verbal warning		
©	Let them carry on, as no injuries have o work faster	ccurred and they are getting through the	
D	Tell them to stop and that they need to	follow the agreed procedure for the task	
10.08	Identify four psychosocial factors that i	need to be considered when carrying out a risk	
	assessment of a manual handling task.		
A	High workloads		
B	Sufficient management		
C	Short deadlines		
D	Poor communication		
E	Difficult dynamics		
F	Repetitive tasks		
10.09	Which two of the following are needed	before an individual lifts a heavy load?	
1	Appropriate training and guidance	A 3 and 4 only	
2	Personal protective equipment	B 1 and 2 only	
3	A back-support belt	© 2 and 3 only	
4	A completed risk assessment	1 and 4 only	

10.10	A surveyor has started complaining of back pain, blaming the regular moving and lifting of the survey equipment in and out of their vehicle. Is this classed as a musculoskeletal disorder injury under the Manual Handling Operations Regulations 1992?
A	No, because they are using their own vehicle not related to work until they are on site
B	Yes, because they are using the equipment being moved to carry out a work-related task
0	No, because they have not mentioned it before and have been doing this role for a while
D	Yes, because this is the movement of hazardous equipment to complete a work task
N	
10.11	Under the Manual Handling Operations Regulations 1992, it is an employer's responsibility to do which one of the following?
A	Select the correct tools for the task
В	Advise how long the task will take
0	Implement appropriate control measures
D	Inform the worker how much they can lift
10.12	Under the Manual Handling Operations Regulations1992, an employee has a responsibility to do which one of the following?
A	Produce a full written risk assessment for the lifting task they are going to carry out
В	Follow the manufacturer's instructions when issued with new lifting equipment for the task
©	Make any suitable changes to the safe system of work as they carry out the lifting task
D	Inform their employer of any shortcomings in the safe system of work provided for

10.13	Identify two duties/responsibilities workers have under the Manual Handling Operations Regulations (1992)		
1	Follow safe systems of work and revise these as and when required whilst carrying out the task	A	1 and 3 only
2	Inform their employer of any changes the identify or hazards when carrying out manual handling activities	В	2 and 4 only
3	Follow the safe system of work put in plac for the task and to co-operate with the employer on all health and safety matters	C	2 and 3 only
4	Identify their own training needs to suitably carry out the tasks and to avoid risks	D	3 and 4 only
10.14	In line with the Manual Handling Operatio should be in place to protect employees fr		
A	Employ the correct people for the work		
B	Provide appropriate training and information		
C	Consider everyone's physical suitability		
D	Supply correct footwear and clothing for the work		
E	Ensure lifting tasks are shared out evenly		
10.15	Do the Manual Handling Operations Regulations 1992 also include the use of mechanical lifting equipment to help with a task?		
A	Yes, as the mechanical aid does not fully eliminate the task		
B	No, because the mechanical device is lifting the load		
0	Yes, because the mechanical aid is doing all the lifting		
D	No, because the lifting is mechanical, not manual		

10.16	Identify three risk assessment tools developed by the Health and Safety Executive to help employers comply with the Manual Handling Operations Regulations 1992.
A	Risk assessment of pulling and pushing (RAPP)
B	Safe system of lifting and moving charts (SSLMC)
C	Mechanical lifting aids for manual operation tasks (MLAMOT)
D	Manual handling assessment charts (MAC)
E	Assessment of repetitive tasks (ART)
10.17	Identify which two of the following would not be classed as a manual handling activity under the Manual Handling Regulation 1992 (as amended 2002).
A	Working on a scaffold from a height, throwing bricks down a rubble shoot
B	Moving a small load by hand, above shoulder height to another area at the same height
C	Carrying out maintenance on plant by using a spanner with manual downwards force to release a bolt
D	Using a hoist to lift roofing materials to height, then unloading these by hand
E	Carrying out demolition of a wall by striking it with force using a large sledge hammer
10.18	From the options below, identify three key pieces of information that must be included in a manual handling risk assessment when the activity cannot be avoided, to enable the task to be completed safely.
A	Contents of the load
В	Full weight of the load
C	Where the centre of gravity is
D	Material the load is made from
E	Where the heaviest side of the load is

10.19	Handling Operations Regulation 1992, which three of the following must you take into account when assessing an employee's suitability for the task?				
A	Whether they are, or have recently been, pregnant				
B	A disability that may affect their physical capabilities				
C	Can they work with other colleagues as a team?				
D	Do they have a medical history of knee or back pain?				
E	Previous knowledge of the load type to be lifted				
F	Whether they will need assistance to re	ad the r	isk assessment		
10.20	Why must employees primarily follow the safe system of work provided by their employer for all manual handling activities?	10.22	If gloves are mandatory on a construction site, which type of injury will be reduced?		
A	To avoid causing any accidents or near misses	A	Cuts and abrasions		
В	To comply with their own legal obligations	B	Crushing limbs		
0	To comply with their employers risk assessment	<u> </u>	Injection hazards		
D	To ensure they do not damage the materials	D	Nips and traps		
10.21	Which one of the following is not commonly linked to work-related upper limb disorders (WRULDs)?	10.23	What causes over half of all work-related ill health among construction workers?		
A	Working with hand-held power tools for long periods of time	A	Occupational cancer		
B	Working outdoors in extreme heat with little shade	B	Work-related stress		
<u></u>	Uncomfortable or awkward working posture	©	Occupational asthma		
D	Repetitive work, using the same hand or arm action	D	Musculoskeletal disorders		
		THE REAL PROPERTY AND PERSONS NAMED IN			

10.19 When carrying out a risk assessment for a manual handling activity under the Manual

10.24	How can employers address the impact of musculoskeletal disorders on their employees?	10.27	How might an individual sustain a limb crush injury when carrying out a manual handling activity?			
A	Encourage them to take absence days to recover	A	Moving loads erratically resulting in falling against an object due to loss of balance			
B	Encourage them to report any pain or discomfort	В	Poor lifting techniques resulting in being trapped by the load			
0	Encourage them to take medication to manage pain	0	Wearing poorly fitting clothing that becomes trapped by the load			
D	Encourage them to read manual handling guidance	D	Moving materials while wearing the incorrect personal protective equipment			
10.25	Why is it important that workers wear appropriate protective gloves when handling cement bricks? Select two correct answers.					
A	They reduce the risk of vibration white finger					
В	They reduce the risk of cuts and abrasions					
0	They reduce the risk of skin disease					
D	They reduce the risk of osteoarthritis					
E	They reduce the risk of repetitive strains					
10.26	By using correct positioning of hands and feet during a manual handling task, limb- crushing injuries would be avoided. Is this correct?					
A	No, because crushing would still be likely when carrying out the task					
B	Yes, the likelihood of crushing is reduced through safe manual handling techniques					
C	No, the injury would not occur if the correct personal protective equipment is worn					
D	Yes, because the operative has read the risk assessment and method statement					

10.28	Which of the following two are not common injuries sustained by manual handling activities?				
A	Knee bursitis				
B	Lower limb disorder				
C	Carpal tunnel syndrome				
D	Musculoskeletal disorder				
E	Migraines				
F	Tinnitus				
10.29	most common cause of a meniscal lesion or tear damage?	10.31	Before carrying out a team lift of a heavy load, which one of the following is an important element to consider?		
A	Twisting or bending a knee when carrying a load	A	There are at least four people helping with the load at the same time		
B	Lifting a small light load too near to the body	B	The people lifting the load are about the same size and build		
C	Lifting a large heavy load with a pallet truck	0	The people lifting the load are all the same age and gender		
D	Twisting the shoulders when loading a cement mixer	D	The lifting is carried out on a level concrete surface		
10.30	Which one of the following is a collective manual handling solution?	10.32	Glaziers on site are installing large sheets of glass into window frames on a new build property. Which type of collective manual handling equipment is most appropriate for this task?		
A	Wheelbarrow				
B	Lifting hook	A	Suction pads		
	Rubble chutes	B	Lift hoist		
			Lifting hooks		
D	Keg truck	D	Mobile conveyor		
la.					

10.33 Workers are using lifting equipment 10.36 An employer has introduced automated manual handling that is powered by a vacuum pump. aids into their safe systems of What else should be fitted to this equipment? work, Which two of the following would not be appropriate? An audible and visible warning device Battery powered pallet truck A safety net situated below the lift B Cylinder trolley Conveyor system Replaceable suction cap ends Roller track Safety chains fitted to the lifting cable Powered hoist 10.34 Your employer has installed gravity rollers to aid the movement of materials around the workshop. This will eliminate all manual handling tasks. Is this true? Yes, using this mechanical method removes all the need for a worker to lift the materials No, there will still be a need to carry out a small lift of the materials on to the top of the roller Yes, using this mechanical method requires no physical involvement from a person whatsoever No, this type of machinery still requires a person to lift and hold the materials as they go around 10.35 What is the first thing that an employer needs to consider when introducing vacuum lifts to reduce manual handling tasks? The increased costs involved in installing and maintaining this equipment The introduction of new risks that will have to be considered and assessed The extra training that will be required for the plant mechanics to install The new procedures and operating techniques that will be required for safe use

one of the following could stop this injury from happening again?

Use bigger bags handled by a forklift truck and redesign the feed chutes

Use smaller bags and rotate the work force and limit working time

Change the materials used to a lighter product that will be easier

Stop the work altogether and ask for a design change to the building

to lift

10.37	For roofers who are currently transporting tiles up scaffolding by hand, the introduction of which mechanical aid would be most effective at reducing the manual handling risks they face?	10.38	When manual handling tasks are unavoidable, which two solutions could help to significantly reduce the risk of injury?
		A	Computerisation
A	Rotary table	B	Motorisation
B	Dual lifting hook	C	Standardisation
<u></u>	Material hoist	D	Automation
D	Lift truck	E	Mechanisation
10.39	A labourer is experiencing back pain, possibly caused by moving 25kg sacks of materials into a mixer. Which		



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1 Safety signage and symbols

11.01	Safety signs have different designs and colours to highlight their meaning. What are the different colours of site signage?	11.04	Which one of the following types of sign should be used to indicate the location of safety equipment on site?
A	Red, orange, green and black	A	Rectangular or square shape; white pictogram on a red background
В	Blue, orange, yellow and green	В	Rectangular or square shape; white pictogram on a green background
C	Red, yellow, green and blue	C	Rectangular or square shape; white pictogram on a blue background
D	Green, red, yellow, and orange	D	Rectangular or square shape; white pictogram on a yellow background
11.02	Which of the following types of coloured sign correctly indicates a Safe condition or relative place of safety.	11.05	Why is it necessary to place prohibition signs in places where hazards exist?
A	Black pictogram on a white background		They prevent behaviour likely
B	White pictogram on a blue background	A	to increase or cause danger by informing people of things they must not do
©	Black pictogram on a yellow background		
D	White pictogram on a green background	В	They warn people of specific hazards likely to increase or cause danger by informing people of things they must do
11.03	What is the purpose of signs that display a round shape with a white pictogram on a blue background?		They inform all persons entering
A	They warn people of a hazard or danger	C	the works areas of hazards likely to reduce danger by informing people of actions they should take
В	They prescribe certain behaviours		
©	They prohibit certain behaviours	D	They prescribe specific behaviours likely to cause danger by informing people of no go areas and equipment
	They inform people what not to do		to be used

11.06	Safety signs should be used to re-inforce the information you have already covered in a site induction and for workers to use to highlight hazards as their working environments change. Is this correct?		
A	Yes. Signs must be displayed at the site entrance and should include a selection of mandatory, warning, prohibition, traffic, emergency instruction and first-aid signs		
В	No. Sufficient time is spent on safety signs in the site induction and workers do not need to have this repeated as they are trained and competent workers		
C	Yes. Signs should be provided where other methods have been properly considered, cannot deal satisfactorily with certain risks and the use of a sign will further reduce that risk		
D	No. Safety signs are covered in the site hazards is tested so there is no need for	induction and workers knowledge of signs and additional signs to provide information	
11.07	What information must fire safety signs and notices display?		
1	Actions to be taken in the event of a fire	A 1 and 2 only	
2	Instructions for extinguishing a fire	B 1 and 3 only	
3	How to call the fire and rescue service	2 and 4 only	
4	The location of the nearest fire alarm call point	3 and 4 only	
11.08	Which of the following types of safety sign would be used to provide information about radioactive materials or a source of non-ionising radiation on a construction site?		
A	Round shape, black pictogram on white background, red edging and diagonal line		
В	Rectangular shape, white pictogram on	a red background with black edging	
C	Square shape, white pictogram on a blue background with diagonal line		
D	Triangular shape black pictogram on a y	yellow background with black edging	

12 Fire prevention and control

12.01	You are carrying out emergency planning onsite. What must be in place to make sure you are compliant with the Regulatory Reform (Fire Safety) Order 2005? Select two options.		
A	A fire risk assessment that is updated on an monthly basis		
В	A fully revised hot-works risk assessment and permit		
0	A relevant person to monitor effective evacuation procedures		
D	A fire risk assessment that is updated to reflect site changes		
E	An appointed responsible person who co	ontrols th	ne premises
12.02	What controls must be in place when work is taking place in a corridor adjacent to an emergency	12.04	If a fire broke out in a diesel tank, what class of fire would it be?
	escape route?	A	Class A
A	Tools, equipment and materials do not block the route	В	Class B
В	All tools and equipment are stored outside the exit doors		
<u> </u>	Fire detection is switched off when working in that area	C	Class C
D	Only spark proof tools are used within this area	D	Class D
12.03	What must be in place along with the construction phase plan before work starts on a new site?	12.05	When positioning a site office for a timber-frame project, it is important that it is situated at least 20m away from the construction because
A	Fire risk management plan	A	Lorries delivering roof trusses need a larger clearance
В	Firefighting emergency plan	В	It allows greater access for emergency and rescue teams
C	Fire risk assessment	0	As a high-risk project, the distance creates a fire break
	Fire safety and evacuation plan	D	It gives larger plant onsite more

12.06	Under the Regulatory Reform (Fire Safe as the responsible person on site?	ety) Orde	er 2005 what is your main responsibility
A	Ensure a suitable fire risk assessment i	is carried	out and reviewed when necessary
В	Extinguish small fires that occur on site	e using fii	re extinguishers and to record them
C	Ensure that the construction phase of t	the projed	ct meets current fire regulations
D	Carry out all maintenance and repairs	to all firef	ighting equipment stored on site
12.07	Under the Regulatory Reform (Fire Saf a construction site?	fety) Orde	er 2005, which two must be priority on
1	A fire risk assessment that is regularly reviewed	A	1 and 3 only
2	Sufficient and maintained fire-fighting equipment	B	2 and 3 only
3	An appointed responsible person, either an employer or owner	C	3 and 4 only
4	Suitable and compliant fire escape doors and routes	D	1 and 4 only
12.08	During the design phase of a large construction project, it is the duty of the principal designer or designer to contact the fire rescue service and discuss access requirements and arrangements before any work starts. Is this correct?		
A	No, this is not a requirement at this stage, this would happen after work had started on the project		
В	Yes, it is important that all emergency services are informed of any construction projects being undertaken		
0	No, this responsibility falls upon the ap has been completed	ppointed	person after the fire risk assessment
D	Yes, it is the responsibility of these dut project progresses	ty holders	s and they must update them as the

12.09	fire risk assessment is carried out. This this correct?	sponsible person on site to ensure that a specific s can only be done by this individual.	
A	Yes, this can only be carried out by the responsible person identified before site work begins.		
В	No, they can nominate another trained	and competent person to do it on their behalf.	
C	Yes, as long as they are trained and comain contractor.	mpetent to do so, and been appointed by the	
D	No, under no circumstance can this ro	le be delegated to another individual on site.	
12.10	What is the first step of a fire risk assessment?		
A	Remove the risk		
В	Evaluate the risk		
0	Identify the hazards		
D	Identify the people at risk		
12.11	When completing a fire risk assessment consider which three elements?	nt for a new build project it is important to	
A	The type of construction materials bei	ng used	
В	The carbon footprint of the construction	on	
C	The location of the construction		
D	Additional charging units for electric v	ehicles	
E	How close it is to other buildings		

12.12	Although basic fire risk assessment prin consider for new builds compared to a r the following two cover some of these c	efurbish	ment of an existing building. Which of
ľ	The building's location and proximity to other buildings	A	1 and 4 only
2	The type of construction materials that will be used	В	2 and 3 only
3	Suitable training for all workers in the use of fire equipment	<u> </u>	3 and 4 only
1	All equipment on site is battery or electric powered		1 and 2 only
	- 6 11	40.45	On large compley projects it is
2.13	For a fire risk assessment to be legally compliant, it must be	12.15	On large, complex projects it is important to periodically review the fire risk assessment. Identify one of
A	reliable and comprehensive		the following where you do not need to review it?
В	suitable and reliable	A	When the project progresses and changes, affecting the
C	suitable and sufficient		evacuation procedures
D	comprehensive and sufficient		When there are more people on site and have a longer distance to travel
12.14	When carrying out a fire risk assessment on site, which one of the		to safety
	following would not help you evaluate the risk of a fire occurring?		
A	Identifying any potential ignition and heat sources on site	C	When site conditions change as the project progresses, altering the
В	Checking which workers on site have had fire awareness training		fire risks
0	Having a list of all the plant, equipment, and fuel being used on site		When the main contractor has adjusted schedules to fit around
D	Knowing the source of all the building materials on site		delivery of materials

	salety controls, what must be actioned	l i	
A	Fire extinguisher training is given to the individual as soon as possible		
В	A site induction is given to highlight the fire controls and processes in place		
C	The fire risk assessment is reviewed to	account	for the apprentice's disability and age
D	The fire risk assessment is given to the	apprenti	ice to read, sign and return
12.17	Which one of the following is not a safe procedure when using a fire blanket to extinguish a small fire?	12.19	A fire has broken out in a confined space. What would be the primary risk if you used a carbon dioxide extinguisher to put it out?
A	The user wraps their hands around the blanket corners	A	It would cause a chemical reaction
В	The gas and electric supplies are switched off	В	It would reduce visibility significantly
C	The user looks under the blanket to check the fire is out	C	It would have no effect on the fire
D	The blanket is not thrown, but gently placed over the fire	D	It would reduce the percentage of oxygen
12.18	Which one of the following is not a requirement for fire extinguishers on construction sites?	12.20	A firefighting hose reel is in-situ on a refurbishment project. What is the recommended safe coverage area of such a hose?
A	They are located at identifiable fire points		400 m ²
В	They are appropriate for the risks on site	В	600 m²
0	They are competently serviced and maintained	C	800 m²
	They are replaced every 12 months	D	1000 m ²

12.16 A joinery apprentice with a hearing impairment has started on site. In relation to fire safety controls, what must be actioned?

12.21	You are working on a re-development profirefighting hose reels has been drained.		,
A	No, the supply should be made live as soon as possible in progressive stages as the fire load of the project increases		
В	Yes, as long as the drainage was carried out by a trained and qualified water mains contractor and the hose reels removed		
C	No, the supply should never be cut off an fire fighting prevention	d there	should always be a water supply for
D	Yes, but only if there are a substantial nu available around the project	mber o	f water fire extinguishers made
12.22	An engineer is completing maintenance follow a recognised standard. Which three		
A	All extinguishers with a plastic body manufactured after the year 2002 must be replaced as soon as practicably possible		
В	There must be an appropriate scheme in place to ensure that all extinguishers on site are regularly checked and maintained		
0	The engineer must ask to see a copy of the fire risk assessment before beginning to service the extinguishers		
D	The responsible person must ensure that involving extinguishers	t a fire l	ogbook is kept to record all events
E	The maintenance and checking of the ext by the appointed fire warden	inguish	ers must be carried out and recorded
12.23	For workers who have been chosen to operate of the emergencies, it is essential that they are.		ire extinguishers in case of
1	suitably trained in their correct use	A	1 and 2 only
2	capable of lifting the extinguishers	В	3 and 4 only
3	over the age of 25 and physically fit	C	2 and 3 only
4	able to identify the correct extinguisher for the fire	D	1 and 4 only

12.24	How does a dry powder fire extinguisher extinguish a class B fire?	12.27	It is deemed good practice to appoin five additional fire safety wardens on
A	It smothers the whole fire and starves it of oxygen		complex construction projects. Is this correct?
В	It forms a barrier of fine powder against other sources of ignition	A	Yes, these are the requirements set under the Regulatory Reform (Fire Safety) Order 2005 and must be
C	It slowly cools the fire with the fine crystal powder elements		complied with
D	It creates a dust cloud that absorbs heat and settles over the fire	В	No, there is no specific number of fire wardens required; it depends on the layout and the number of people
12.25	On a complex construction site, it is good practice for the 'responsible person' to appoint which other fire safety-related role?		working on the site Yes, these are the requirements set
A	Fire safety supervisor	C	under the Construction (Design an Management) Regulations 2015 for sites and must be complied with
В	Fire safety co-ordinator		
<u>C</u>	Fire safety manager	D	No, as this would over-complicate the fire safety and evacuation plan
	Fire safety director		prepared for the site
12.26	Which two of the following are respons safety co-ordinator?	ibilities o	f an appointed site fire
1	To deploy a fire extinguisher without any previous training	A	1 and 2 only
2	To assist in the implementation of the fire safety and evacuation plan	B	2 and 3 only
3	To ensure they train all fire wardens in their duties	C	1 and 4 only
4	To ensure hot-work permits are followed and managed correctly	D	2 and 4 only

		The same of the sa	
12.28	When fire safety coordinator's are carrying out their duties, which three areas must they do to be legally compliant?	12.30	How can a fire safety co-ordinator ensure that all site personnel know what to do in the event of a fire?
A	Liaise with the fire and rescue services in the event of a fire	A	Have random conversations with individuals
В	Carry out a daily role call to account for all workers on site	В	Conduct regular fire drill practices
0	Keep records of all inspections, tests, and fire drill practices	C	Distribute leaflets indicating fire procedures
D	Ensure all fire extinguishers on site are tried and tested weekly		
E	Carry out weekly inspections of escape route and fire alarms	D	Conduct all fire-related site inductions
12.29	2.29 You are in charge of setting up a large construction project and you are developing emergency procedures for the site. Which of the following would it be advisable to invite to the site to support this?	12.31	There has been a major change to the site layout. What must the fire safety co-ordinator review?
		A	Fire extinguisher numbers
	Haraldhan dan fatu ann aithir (HCF) to	B	Emergency sign positions
A	Health and safety executive (HSE) to check and ensure regulations are followed	<u></u>	Fire evacuation plan
	Local authority to conduct	D	Emergency mobile phone coverage
В	environmental surveys and identify control measures		
C	Fire and rescue service to identify water sources and access requirements		
D	Local Police to advise on current crime trends and appropriate security measures		

12.32	In the event of a fire on site, how can a fire safety co-ordinator ensure the safe evacuation of visitors?		
A	Discourage site visitors, but if they must visit, ensure 'visitor safe areas' are established		
В	Have arrangements in place to log visi located quickly	tors in and out, so that they can be	
C	Issue all visitors with high-visibility clothing and visitor badges so that they are easily identified		
D	Create a visitor buddy system, so there fire procedure	e is always someone with them who knows the	
12.33	A hot-work permit has been issued for a large timber-frame project. Each day that the permit is in force, what is the minimum amount of time required between the hot works ending and the site closing?		
A	Thirty minutes		
В	Two hours		
0	One hour		
D	Ninety minutes		
12.34	When undertaking a hot works activity prior to the work commencing?	in a confined space, what must be completed	
A	Thorough ventilation for 48 hours to re	move any flammable or explosive gases	
В	Additional temporary ventilation install	ed and a fire extinguisher made available	
0	An atmospheric test that confirms ther	e are no flammable or explosive gases present	
D	The sub-contractors conducting the w	ark have reviewed their own 'normits to work'	

12.35	A roofer is carrying out a task in line with a hot works permit. What must they be able to do?	12.37	Hot-work tasks taking place on a timber-framed building must stop at least two hours before the site closes. What is the main reason for this?
A	Complete the work within the timescale	A	It allows the site to be monitored for any signs of fire before the area is vacated
В	Administer first aid treatment if required	В	The timber structure can distort in the heat, and it allows time to rectify any deformities
<u> </u>	Make adjustments to the fire risk assessment	C	The workers need enough time to tidy up and lock away the tools and equipment
D	Select and use a portable fire extinguisher	D	If the work activity runs over schedule, it can impact on the legal working hours
12.36	What was introduced by the Fire Protection Association (FPA) to increase the competence of	12.38	Which two of the following would not normally be included in a hot works permit?
	operatives who carry out hot works?	A	Proposed start time and duration of the hot works
A	Certification scheme	В	Instructions for checking for combustible materials in adjacent locations
B	Association membership	0	Description and location of where the work will be completed
© —	Passport scheme	D	Information about the porosity content of materials being worked on
D	Hot-work permits	E	Identification and list of the people carrying out the works
Color and the Color of the Colo		The second second second	

12.39	When hot work activities are taking pla aware of	ace on site	e, the individuals involved must be
1	How heat might be transmitted to other areas	A	1 and 3 only
2	How to raise an alarm in the event of a fire	В	2 and 4 only
3	The fire risks in the working location	0	2 and 3 only
4	Other people's capabilities to help in an emergency		3 and 4 only
12.40	When carrying out a safety inspection on site, you observe a disc cutter being used. Would a hot works permit be required for its use?	12.42	What does this warning label mean?
A	Yes, they have the potential to cause a fire		
В	No, sparks would not be generated from its use		
<u>C</u>	Yes, all tools require a hot-work permit for use		
D	No, this tool does not generate enough heat	A	Explosive environment
		B	Explosive atmosphere
12.41	Which of the following is not a requirement for a compound where liquefied petroleum gas containers	C	Explosive substance
	are stored on site?	D	Explosive warning
A	It is on a level base of compacted earth, concrete or paving slabs		
В	It is surrounded by a secure chain fence at least 1.8 metres high		
0	It has sufficient shelter to prevent cylinders being exposed to extreme weather		
D	It has a base on timber flooring set at a 10% angle to aid water run off		

12,43	When there is no suitable external storage for highly flammable materials on site, it is acceptable to store them within a building. Is this correct?
A	Yes, so long as it is in a secure internal fireproof storeroom with fire-detection and suppression systems installed.
В	No, under no circumstances can you store highly flammable materials inside, it must be outside in a secure compound.
C	Yes, so long as it is in a lockable room, away from the main part of the building with only one person access.
D	No, under no circumstance would any highly flammable materials be stored on site, as minimum quantities are used.
12.44	A quantity of gas cylinders, some containing liquid petroleum gas and others oxygen, are being stored together in an external compound. What is the main significance of this?
A	A large volume of highly flammable gas that needs reducing is present on site
В	Safe site management and storage procedures of highly flammable gases are being followed
C	There is a high fire risk and the oxygen must be stored separately from the other cylinders
	Safe quality checks can be carried out on new cylinders delivered to the storage area
12.45	Explain why liquefied petroleum gas (LPG) cylinders, apart from cylinders used to provide fuel for powered plant, must never be placed on their side during use?
A	Because they would give a faulty reading on the contents gauge, resulting in flashback
В	Because air could be drawn into the cylinder, creating a dangerous mixture of gases
0	Because the liquid gas would be at too low a level to allow the torch to burn correctly
D	Because the liquid gas could be drawn from the cylinder, creating a safety hazard

12.46	Sometimes, it is unavoidable to store bulk on site. In this circumstance, which two of storage area?	quantiti the follo	es of highly flammable substances owing must be applied to the	
1	It is within a pervious bund with a capacity greater than 100% of the total contents stored	A	1 and 2 only	
2	It is equipped with heat detectors linked to an automatic sprinkler system	В	2 and 3 only	
3	It is within an impervious bund with a capacity greater than 110% of the total contents stored	0	3 and 4 only	
4	It is equipped with a quantity of absorbent material to soak up any spilt liquid	D	1 and 3 only	
12.47	When using liquefied petroleum gas cylino three procedures?	ders on s	ite it is important to follow which	
A	Keep all types of gas cylinder together in t	he one a	irea	
В	Turn off cylinders' valves before connecting any equipment			
C	Check cylinders and associated equipment before use			
D	Ensure all cylinders are used horizontally t	o aid rel	ease of gas	
Ē	Minimise the amount of gas cylinders on si	te at one	time	
12.48	Which one of the following statements is f gas (LPG)?	alse rega	arding liquefied petroleum	
A	A spillage of LPG can create a large vapou some distance away	ır cloud (of gas that is capable of ignition from	
B	Storage of spare LPG cylinders must be or non-combustible unit	utside th	e site perimeter in a sealed, secure,	
0	LPG is a colourless, odourless liquid that f that is heavier than air	loats on	water but vaporises to form a gas	
D	LPG cylinders and regulators used to heat be piped in using rigid copper pipes	welfare	facilities must be kept outside and	

13 Electrical safety, tools, equipment, lasers and drones

13.01	Is it a legal requirement that portable appliance testing (PAT) must be carried out yearly on all portable electrical equipment?			
A	No, the law does not state a frequency, so the employer decides the level of maintenance needed according to the risk			
В	Yes, the law states this must be carried out annually by a trained and registered electrician to comply with legislation			
C	No, this is not a legal requirement, all portable electrical equipment falls under the responsibility of the user as it is low risk			
D	Yes, this is a legal requirement and must be carried out for all electrical equipment including items that are hard wired into the mains			
13.02	What is the standard voltage used on sites for all electrically powered	13.04	How must mains power supplies on site be regulated?	
	equipment?		It must be installed and inspected	
A	50 volts	A	in line with the Health and Safety at Work etc. Act (1974)	
			It must be maintained with the	
B	110 volts	B	Electrical Equipment (Safety) Regulations 2016	
			It must be installed, inspected and	
C	230 volts		maintained in line with the Electricity at Work Regulations 1989	
			It must be maintained in line with	
D	400 volts		the Provision and Use of Work Equipment Regulations (1998)	
13.03	When electrical tools are being used on site, which one of the following regulations would not need to be complied with?			
A	The Personal Protective Equipment at Work Regulations 1992			
B	Electricity at Work Regulations 1989			
	Provision and Use of Work Equipment Regulations 1998			

Management of Health and Safety at

Work Regulations 1999

13.05	Your initial site survey has indicated that Which one of the following would be the main electrical supply?	at electric e safest v	city will be the main power source. way of protecting both workers and the	
A	Have a residual current device built into the main switchboard to protect the electrical supply			
В	Make sure that all staff have received suitable training, instruction and supervision			
	Provide workers with a residual current device that must be used on all electrical equipment			
D	Issue all workers with a meter testing k	it that th	ey can use to check wattage supplies	
13.06	Work needs to be carried out near live electricity cables and a risk assessment has been undertaken. Identify which other document must be in place before work can begin?	13.07	LOTOTO (Lockout, Tagout, Tryout) is now recognised as best practice. Identify which three of the following work procedures would require this process to be applied?	
A	Variation order	A	Changing the blade on a table saw	
R	Inspection checklist	B	Replacing cartridges on a nail gun	
	mapection checkist	C	Connecting temporary lighting	
	Electrical certificate	D	Replacing a belt on a generator	
D	Permit to work	E	General maintenance on machinery	
13.08	Refurbishment projects can present a r circuits. Which two of the following pro			
1	Installing warning signs and barriers advising of live electrical systems	A	1 and 4 only	
2	Isolation of the electrical system where work is being carried out	В	2 and 3 only	
3	Use of suitable tools and equipment, either battery operated or 110 volt	C	1 and 3 only .	
4	Workers complete and follow their own risk assessment for the tasks	D	2 and 4 only	

13.09	A competent person must make sure that the power source to a conveyor is isolated before maintenance work can begin. Which three procedures must the competent person follow?			
A	Use an electrical test unit to confirm that the circuit supplying the conveyor is dead			
В	Turn the power supply off and tape down the sw	itch with	n warning tape	
C	Lock off the switch that operates the conveyor s	o that it	cannot be turned back on	
D	Unplug the conveyor power connection and rem	ove the	fuse	
E	Make sure that the equipment and methods used	l to chec	k the voltage are reliable	
13.10	Who must retain the key when a permit to work involves the use of a padlock to lockout electrical isolators?			
A	The power supply company's engineer			
В	The main electrical contractor's supervisor			
0	The person who is operating the machine			
D	The person identified on the paperwork for the task			
13.11	The power supply to a machine has been isolate be conducted safely. Which two of the following switched back on again without the correct auth	will ens	w maintenance work to ure the power cannot be	
1	The person carrying out the work is in control of the main power switch until work is completed	A	1 and 4 only	
2	The key to release the lockout tag is held by the person carrying out the work at all times	В	2 and 3 only	
3	The fuse supplying the machine has been removed by the person carrying out the work	0	1 and 2 only	
4	There are suitable notices and signs in place stating the power must not be switched on	D	3 and 4 only	



Additional precautions to be taken during the course of the work

13.16	What must be followed if a permit remains in place after a shift changeover? Select one				
A	The permit is endorsed by the authorised person and transferred to the second operative				
В	The permit is amended to reflect the changes and endorsed by the second operative				
C	The permit is displayed in the working area for the second operative to refer to				
D	The permit is handed over to the second	l operati	ve so that they can continue the work		
13.17	What is the main feature of a direct- acting cartridge operated tool?	13.19	Which three of the following must be compatible for the safe use of gas-operated fixing tools?		
A	They are heavier to hold	A	Power voltage		
В	They have a short battery life	B D	Type of cartridge		
	They tend to be high powered		Base material Type of fitting		
D	They are lighter in weight		Operative's age		
13.18	Who should be contacted about the disposal of unused or unserviceable cartridges?	13.20	Which of the following must be performed before firing a first fixing with a cartridge tool?		
A	The contractor	A	Driving a fixing of the intended type into the base material with a hammer		
В	The manager	В	Issuing the risk assessment and method statement for use of fixings		
C	The supplier	C	Explaining to the operatives the safe use of fixings through a toolbox talk		
D	The operator	D	A thorough examination of the tool and the intended fixings		



13.26	What is the significant difference between a class 1 and class 3 laser level?			
A	Operators of class 3 laser levels must be trained and experienced, where as class 1 operators do not			
В	Class 1 equipment has been banned within the United Kingdom, where class 3 has not			
	Operators of class 3 laser level do not need to be trained and competent but operators of class 1 must be			
D	Class 1 equipment requires operators to wear eye protection, but class 3 does not			
13.27	To operate a laser level, you must be which one of the following	13.29	When completing a risk assessment for the safe use of a large drone on site, which three controls must be implemented?	
	Colour blind	A	Plant and crane operatives are made aware of drone activity	
В	Competent	В	Suitable, sufficient landing areas are allocated	
	Aged over 18	C	The flight has permission from the Civil Aviation Authority	
		D	It is feasible for the drone to operate safely within the area	
D	Glasses wearer	E	There is suitable and sufficient support personnel on the ground	
13.28	Which of the following must be in place when operating static lasers?	13.30	What must be completed by the drone pilot before a flight is undertaken on site?	
A	Screens and warning signs	A	Equipment is checked and fully charged	
B	Supervision and monitoring	B	A method is in place for the aerial work	
	Exclusion zones and warning signs	<u></u>	The camera is not damaged	
D	Permission from the local authority	D	The weather conditions are acceptable	

13,31 To allow the safe operation of a drone on site, identify which two procedures must be followed. Designate a safe area for the take-off 1 and 2 only and landing of the drone Avoid unnecessary distractions 2 or communication with the drone 2 and 3 only operator during flight Ensure that site personnel have stopped work activities while the 3 and 4 only drone is in flight Direct any high voltage lighting downwards to avoid distraction to 1 and 3 only the drone systems 13.32 Specific incidents and accidents involving drone activities on site are reportable to... The Health and Safety Executive The Local Authority The Civil Aviation Authority The Environmental Agency

14 Site transport safety and lifting operations

You are managing groundworks for 14.01 Which two of the following are required for a individual to act as a a project that has a number of deep signaller when a load is being lifted excavations. How would you prevent or lowered? heavy vehicles from operating too close to the edge of an excavation? Awareness training of the type of crane in use Supervision by an authorised crane operator Set up and use stop blocks to stop Knowledge of the approved over-running the excavation edge method statement Knowledge of all lifting accessories and connectors Training and certification in, and experience of, lifting operations Set up a traffic management system to plan access around allocated 14.02 If a plant operator loses sight of the time periods banksman during a manoeuvre, what must they do? Not deviate from the planned route Set up an audible warning system that activates when too close to the excavation edge Stop the vehicle immediately Use the two-way radio to locate them Set up a system of physical barriers a distance of 3 metres from the excavation edge Only travel forward in the vehicle 14.03 You are managing a large office project, and an incident between two vehicles has resulted in a delivery lorry overturning. What could you do to reduce the risk of this type of incident happening again? Implement designated exclusion zones for deliveries and other site vehicles Use banksmen to control the movements of delivery vehicles from now on Erect safety warning signs at vehicle crossing points and around the site Effectively plan traffic routes to control the movements of all vehicles

14.05	You are managing a site where current What action do you take to ensure ped	-	-	uck away' activities are going on. and vehicles are adequately separated?
A	Set up pedestrian-only areas from which vehicles are excluded at busy times Ensure pedestrians are provided with a clear view of all traffic routes on site			
В				
0	Set up vehicle-only areas especially where space is limited or traffic is heavy			
	Ensure pedestrians are not crossing a	ny	vehicle	routes on site at any time
14.06	When a banksman is giving directions to the lifting equipment operator, which two of the following must be complied with?		14.08	Which one of the following is a method used by a banksman to direct plant on site?
A	The Health and Safety (Safety Signs and Signals) Regulations 1996		A	High-visibility flags
В	Traffic Signs Manual Chapter 8 road works and temporary situations 2009		B	Coloured paddles
B C	BS7121-1 Safe use of Cranes - General			Hand signalling
D	The Traffic Signs Regulations and General Directions 2016			Traina signaming
E	Lifting Operations and Lifting Equipment Regulations 1998		D	Tannoy system
14.07	Which one of the following should occ using portable devices to communicat on site?			
A	The banksman will need to stand in a s vehicle and be visible to the driver at a			on where they can guide the reversing
В	The driver will be permitted to reverse long as they are communicating by po			
0	The banksman will have to stand close they can be seen by driver at all times	tc in	the ve	hicle when it is reversing to ensure ersing camera
	The driver will need to take extra preca	aut	tions fo	r visibility to ensure they keep sight of

the banksman in poor or low light conditions

14.09	During site operations, it is not possible for a plant operator to achieve suitable all-round visibility from their operating position. Which two of the following measures would be most effective to protect people from harm?						
A	Ensuring that lights are fitted to plant, and are used to adequately illuminate the work area						
В	Providing a competent, qualified vehicle marshaller to work exclusively with the plant operator						
0	Ensuring that amber flashing beacons are fitted to the vehicle, to warn of its presence						
D	Implementing exclusion zones to preven	nt unautl	norised access into any danger areas				
E	Providing information on how to safely s positive response	ignal the	operator and receive a				
14.10	If vehicles have to reverse in areas when should ensure that:	re other	workers cannot be removed, you				
1	All pedestrians in the area wear high-visibility clothing	A	1 and 2 only				
2	The driver has sufficient direct vision behind the vehicle	В	2 and 3 only				
3	A trained signaller is used to control the manoeuvre	C	3 and 4 only				
4	Any turning areas are kept free from parked vehicles	D	1 and 4 only				
14.11	Who should carry out an assessment of the ability of the ground or surface to accept the loads from cranes or mobile lifting equipment?	14.12	Following the confirmation of all hazards associated with a lifting operation, which one of the following would be identified in the second stage of the risk assessment?				
(A)	Crane operator	A	What type of crane and equipment will be needed to perform the lift				
В	Lift planner	В	The correct sequence and method of how to perform the lift safely				
0	Lift supervisor	C	Who might be harmed by the risks and consequences of any harm				
D	Site engineer	D	The contacts details of anyone involved in the emergency procedures				

14.13	When planning a lifting operation, which one of the following category lists is used to establish the complexity of the lift?	
A	Critical, intricate and multifaceted	
В	Basic, intermediate and complex	
C	Low, medium and high	
D	Elementary, difficult and focused	
14.14	Which one of the following is the corre effective lifting operation?	ect sequence to follow when planning a safe and
A	Categorise the lift and select the corre the load, record the details in a lift pla	ct lifting equipment and lifting accessories to lif า
B	Identify the hazards associated with the lifting plan with a method statement	ne task and identify control measures, record the
C	Identify the task to be undertaken and with the task and categorise the lift	survey the site, identify the hazards associated
D	Survey the site and identify the hazard measures and develop the method to	ls associated with the task, identify control be used
14.15	When carrying out a lifting operation of are potential risks for the pedestrian o	rom a lorry loader, which three of the following perator who is at ground level?
A	Falling on uneven ground	
B	Having an obstructed view of the lifting	g equipment
C	Misinterpreting the banksman's signa	s
D	Inclement weather conditions	
E	Being struck by the load	
F	Being unaware of the lift sequence	

14.16	16 A lifting operation on a small and restricted site footprint is being carried out u radio communication system. Which of the following may cause potential prof for a safe lift?				
1	Interference from other radios	A 1 and 2 only			
2	Stopping the lift quickly	B 1 and 3 only			
3	Loss of signal	2 and 4 only			
4	Sunny weather conditions	1 and 4 only			
14.17	An excavator carrying out a lifting oper injured. Which two of the following mu	ration on site has overturned but no-one was st happen next?			
A	Interview the site manager and site su	pervisor			
В	Carry out a thorough investigation of the incident				
0	Make a report to the Health and Safety Executive (HSE)				
D	Report the incident in the company accident book				
E	Update the lift plan following the incident				
14.18	When hiring a crane to carry out a contract lift, the majority of the legal responsibility for its safe operation is transferred to the crane hire company. Is this correct?				
A	Yes, you will be provided with a lift supervisor, slinger or an appointed person, and ground bearing capacity calculations				
В	No, you must retain full responsibility a undertaken by any contractors on site	and accountability for any lifting operations			
C	Yes, you will be hiring the services of the crane company to organise and carry out the whole lift operation				
D	No, the crane owner has to provide on lifting accessories and a competent op	ly a crane that is tested, certified, has suitable perator			

14.19	A crane is being hired to undertake lifting operations on a project. What are the employing organisation's duties?			
1	To plan the lift and operate a safe system of work	A	1 and 2 only	
2	To provide a crane that is properly maintained	B	2 and 3 only	
3	To supply a competent lift planner	C	1 and 3 only	
4	To provide a crane that is properly maintained	D	2 and 4 only	
14.20	When hiring a contract lift crane for site responsible for?	e work, w	which of the following is the contractor	
1	The overall load bearing capacity calculations	A	1 and 2 only	
2	The dimensions and weight of the loads to be lifted	B	2 and 3 only	
3	The planning of the lift and operating a safe system of work	<u>C</u>	1 and 4 only	
4	The organisation and control over the lifting operation	D	3 and 4 only	
14.21	When establishing the complexity of a linclude characteristics such as the rate lifting equipment. Is this correct?	lifting op d capaci	eration, the complexity of the load will ty (safe working load (SWL)) of the	
A	Yes. Load complexity includes the rated capacity (SWL) of the lifting equipment and should be specified by the manufacturer			
В	No. Load complexity includes character presence of suitable lifting points	ristics su	ch as weight, centre of gravity and	
С	Yes. Load complexity includes the suita by the lifting equipment during the lift	bility of t	the ground to take the loads imposed	
D	No. Load complexity includes the rated thorough examination, issued by the co			

14.22	Which of the following is the first stage of a lift planning process?	14.25	measures should be considered to ensure that mobile work equipment
AJ	Carrying out a site survey		can be used safely on site?
В	Identifying the associated hazards	A	Pedestrian routes should be segregated from mobile plant and vehicles, with access points restricted and clearly marked
C	Carrying out a risk assessment		
D	Identifying the task to be undertaken	В	Pedestrian routes should be planned in order to minimise disruption to the works on site, congestion and risk of collision
14.23	A complex tandem lifting operation with two mobile crawler cranes has		or complete
	been planned for your site. Which one of the following should happen immediately before the lifting operation commences?	C	Pedestrian routes should be established away from any overhead cables, underground cables, sewers,
A	Review the lift plan to check if aspects have changed		ducts or services
В	Communicate the lift plan to all persons involved		Pedestrian routes should be segregated from mobile plant and vehicles, either by a safe distance or by physical barriers
0	Ensure a suitable exclusion zone is put in place	D	
D	Ensure all plant has been thoroughly examined		
14.24	In line with the Lifting Operations and Lifting Equipment Regulations (1998), how long must the report of a thorough examination be retained	14.26	The most effective way to manage the safe passage of pedestrians on a site is to
	after lifting equipment is examined before its first use?	A	paint pedestrian walkways on all haul roads
A	Until the next report is made	В	use signs to highlight risks of heavy
В	Two years after the report is made		plant operations
	One year after the report is made	C	separate pedestrian access from traffic routes
D	Until the user ceases to use the equipment		restrict pedestrian access to specific times

14.27	Which one of the following actions should be taken to ensure safe vehicle operations and adequate segregation of pedestrians?		14.28	What is the most effective way of preventing accidents with pedestrians and mobile work equipment on site?
A	Place restrictions on pedestrian movements to and from the site		A	Restrictions on pedestrian movements on site
В	Locate materials storage areas away from primary traffic routes		В	Exclusion zones to prevent unauthorised access
C	Have sufficient room for vehicle movements and safe exit points		C	Amber flashing beacons and reversing alarms on plant
D	Provide signallers at crossings to warn drivers and pedestrians		D	Trained vehicle marshals supervising plant movements
14.29	most effective practical measures to re	y h	igh stre	reet works involving the use of road- eet. Which <mark>two</mark> of the following are the risk of sparks and stone chips entering
	pedestrian areas?		·	
A	Shut down areas within a ten metre ra	idit	is of th	e work
B	Work at times when the public is less	like	ely to b	e in the area
0	Provide solid barriers adjacent to pub	lic a	areas	
D	Use stacks of materials as temporary	noi	se barr	iers
E	Provide suitable acoustic curtains near	, br	ıblic ar	eas
14.30	When establishing pedestrian routes	on	a site, t	hey should
1	provide vehicle and plant operators with a clear view of pedestrian routes		A	1 and 2 only
2	have competent vehicle marshals available at pedestrian crossing points and gates		В	2 and 3 only
3	be wide enough to accommodate the number of people likely to use them at peak times		C	3 and 4 only
4	provide pedestrians with a clear view of traffic movements at crossing points		D	1 and 3 only

14.31	Which one of the following practical measures should be considered when planning traffic and pedestrian management to prevent pedestrians being struck by vehicles or their loads?
A	Ensure any traffic route provided is wide enough to accommodate a pedestrian walkway
В	Ensure availability of competent vehicle marshals to monitor safety on pedestrian walkways
C	Ensure safe, designated, pedestrian routes are available at all work locations and are maintained
D	Ensure on-site parking for private vehicles is located as near as possible to the work areas
14.32	Which of the following is the most effective practical traffic and pedestrian management measure that will prevent pedestrians being struck by vehicles or their loads?
A	Ensure the site implements clearly sign posted one-way traffic systems with speed limits
В	Ensure parking areas are connected to the entrance to avoid visitors crossing site to gain access
<u> </u>	Ensure all workers and visitors on site are issued with suitably coloured high-visibility clothing
D	Ensure a car park is provided for privately owned vehicles with direct access to working areas
14.33	The most effective way of managing the risks from reversing vehicles on a construction site is to ensure all vehicles have appropriate reversing warning devices. Is this correct?
A	No. Warning systems offer the lowest level of protection and if they are the only precaution to be used, they are only appropriate for low-risk situations
В	Yes. Reversing warning lights and alarms provide both visual and audible warnings and are appropriate precautions for use in high-risk situations
C	No. Competent marshals or signallers should be in place to warn drivers that they have reached the limit of the safe reversing area
D	Yes. Reversing warning lights, alarms and CCTV are fitted as standard as an effective way of managing the risks from reversing

14.34	The majority of construction transport accidents involving pedestrians result from poor operating or driving practices. Is this correct?			
A	Yes. The majority result from inadequate driver training and inappropriate vehicle use			
В	No. The majority result from the inadeq	uate segregation of pedestrians and vehicles		
C	Yes. The majority result from manufactu being disregarded	rers' instructions for safe use		
D	No. The majority result from unsafe loading and transportation of materials on vehicles			
14.35	To ensure pedestrian safety on constru that pedestrians and vehicles are adequ	ction sites, principal contractors must ensure lately segregated by establishing		
1	safe loading and transportation of materials on vehicles	A 1 and 2 only		
2	pedestrian areas from which vehicles are totally excluded	1 and 3 only		
3	control of pedestrian movements during construction work	3 and 4 only		
4	vehicle-only areas especially where space is limited on site	2 and 4 only		
14.36	Which two of the following are the most loads coming into contact with people of	t effective ways of preventing vehicles or their on a construction site?		
A	Controlling pedestrian movements during	ng construction work		
В	Providing drivers with a clear view of pedestrian movements			
C	Pedestrianised areas from which vehicles are totally excluded			
	Providing gates for pedestrians at traffic	route crossing points		
E	Establishing safe designated pedestrian	routes to work areas		

-					
14.37	Which two of the following are the most effective ways to prevent pedestrians being struck by vehicles or their loads?				
A	Providing traffic routes that are wide enough to accommodate a pedestrian walkway				
В	Presence on site of competent vehicle marshallers for all vehicle reversing movements				
0	Availability and maintenance of designations	ated	pede	estrian routes to all	
D	Provision of onsite parking for private vehicles allowing direct pedestrian access to work areas				
E	Separation of pedestrian walkways from plant and vehicles by physical barriers				
14.38	When planning the layout of a site, which two of the following precautions will reduce accidents related to mobile plant and site logistics?				
1	Design groundworks and landscaping to reduce the need to import fill or take spoil off site		A	1 and 2 only	
2	Consider ways of moving materials without using vehicles		В	2 and 3 only	
3	Design storage compounds to allow vehicles to turn and park			1 and 3 only	
4	Consider adding extra temporary roadways to the site's permanent road system		D	3 and 4 only	
14.39	Which of the following measures can b minimise the risk of vehicle related acc			hen planning your site layout to	
1	Appoint a trained signaller who can control vehicle movements		A	1 and 2 only	
2	Check all vehicles are fitted with appropriate reversing alarms		В	2 and 3 only	
3	Provide drive-in/drive-out access to delivery and work areas		C)	1 and 4 only	
4	Ensure pedestrian and vehicle entry and exits are kept separate		D)	3 and 4 only	

14.40	When planning site layout to minimise the risk of vehicle-related accidents, which two of the following measures must be taken?
A	Design traffic routes with turning circles to avoid the need for reversing or similar turning areas
В	Consider ways other than vehicles for moving materials to where they will be used
0	Ensure trained signallers are available to control all vehicle movements on site
D	Ensure drivers can see site exits and pedestrians before crossing the footway
E	Design groundworks to reduce the need to import fill or take spoil off site
14.41	The majority of construction accidents involving reversing vehicles can be avoided by careful consideration at the design stage of a project. Is this correct?
A	Yes, because there are many accidents and deaths due to a lack of planning and control, especially when reversing vehicles on site
В	No, because all workers are competent in all aspects of site vehicle safety, so reversing is no longer a problem on site
C	Yes, because so many accidents have been caused by reversing vehicles, all traffic movements must be strictly controlled by a team of experts
D	No, because this is explained in detail in the site induction so everyone knows the associated risks and methods to follow
14.42	Which of the following should be taken in to account when assessing the likelihood and potential consequences of a vehicle roll-over on site?
A	Measures that can be taken to avoid sudden movements of the mobile work equipment
В	Nature of the mobile work equipment and any attachments or accessories fitted to it
C	Risk of people being injured if the mobile work equipment comes to a sudden stop
D	Warning devices to provide equipment operators with an indication of imminent danger
Commission of the Commission o	

14.43	Which two of the following measures can reduce the risks to the public on partially completed housing development sites?				
A	Phased occupation of dwellings so that site traffic can be excluded from occupied areas				
В	Delivery management and preventing unplanned vehicles to enter the site				
0	Segregated public vehicle and pedestrian routes from site vehicles and site worker routes				
D	Providing direct access to work areas vi traffic routes	a establ	ished primary pedestrian and		
E	Positioning site offices and welfare facilities a safe distance from primary site traffic routes				
14.44	To prevent construction vehicle operations endangering the public, which two of the following practical precautions must be taken?				
A	Suitable restrictions placed on traffic and pedestrian movements				
В	Appropriate pedestrian and vehicle traffic management systems				
C	Effective vehicle immobilisation systems and key custody procedures				
D	Relevant information and signs for visitors on site traffic management				
E	Suitable turning circles and established of	one way	traffic systems		
14.45	Which one of the following is not part of the duties of the site supervisor in relation to mobile work equipment?	14.46	At the project planning stage, which of the following must be considered for the safe management of deliveries to the site?		
A	Checking the operator has undertaken the relevant daily checks	A	Restrictions on site vehicle use		
В	Ensuring all quick hitches are securely locked before starting work	В	Proximity to schools and hospitals		
C	Ensuring the inspection check sheet has been completed and signed	C	Drivers working in public areas		
D	Checking the manufacturer's machine operating manual is in the cab	D	Warning signs for pedestrians		

GENERAL SAFETY

14.47	Which two of the following should be considered at the project planning stage for the safe management of deliveries to the site?				
A	Proximity to schools, hospitals and major shopping centres				
В	Driver visibility, particularly when working in public areas				
B C	Pedestrians or vulnerable groups passing the site				
D	Restrictions on site vehicle use in hazardous areas				
E	Re-routing delivery traffic away from steep hills and bridges				
14.48	When planning deliveries to site. Whic pedestrians and drivers of other vehicl			he following will help reduce	the risk to
1	Minimise the number of deliveries to the site during and after busy periods		A	1 and 2 only	
2	Consider local hospitals, schools, and site access and exit at busy periods	d	В	1 and 3 only	
3	Divert site traffic away from pedestrianised areas and built-up housing estates		C	2 and 3 only	
4	Divert pedestrians from the site to provide adequate space on site for offloading		D	2 and 4 only	
14.49	Before a construction project commen drivers of other vehicles outside of the				ians and
A	No. During the planning stage you nee may be struck by vehicles operating or	d to n th	o consi e site	der only the risks of pedestria	ans who
В	Yes. You need to plan to avoid disruption you have the right materials at the right	ons t tir	to the	local traffic in the area and m	ıake sure
C	No. You need make sure there are cont segregate pedestrians and vehicles wh	rol	meası ever po	res to avoid crossing traffic, assible	and
D	Yes. During planning you need to cons up areas to the site, and possible busy	ide pei	r the pi riods	roximity of schools, hospitals	and built

14.50	To minimise the risk of vehicle-related incidents during deliveries to site, which of the following is an effective practical control measure for the safe management of deliveries?			
A	Divert pedestrians away from the site and provide information for routes to follow			
В	Design storage compounds with enough space for delivery vehicles to turn round			
0	Locate storage and loading areas near the entrance and off primary vehicle routes			
	Locate storage and loading areas away	/ from are	eas of frequent pedestrian activity	
14.51	Which one of the following should be considered at a project's planning stage to reduce the risk to pedestrians and drivers from site traffic entering or exiting?	14.52	You are planning a safe system of work for traffic management and vehicle movements on a new project. Which one of the following will help to effectively manage the	
A	Provide trained marshals or signallers to control site vehicle movements		risks occurring from delivery vehicles entering and leaving the site?	
В	Control material stocks to ensure you have the right levels at the right time	\bigcirc	Ensure delivery companies and drivers have the correct	
	Implement diversions for pedestrians away from site vehicle traffic routes	A	haulage licenses	
D	Regular meetings to inform the community of site traffic arrangements	В	Ensure delivery companies have advance notice of unloading arrangements	
		C	Ensure delivery drivers do not leave the cab of their vehicle while on site	
		D	Ensure delivery drivers leave the site only when the vehicle is sheeted	



induction training covering vehicle operations

to workers

Phasing works on site to minimise risks from vehicle operations

14.55	When implementing a management plan to minimise the risk of vehicle- related accidents, which one of the following actions is most important?
A	Design compounds to allow delivery vehicles to turn round
В	Direct all traffic routes leaving site through the wheel wash
C	Discourage private vehicles from being parked near the site
	Divert site vehicles and traffic away

from built up areas





High risk activities

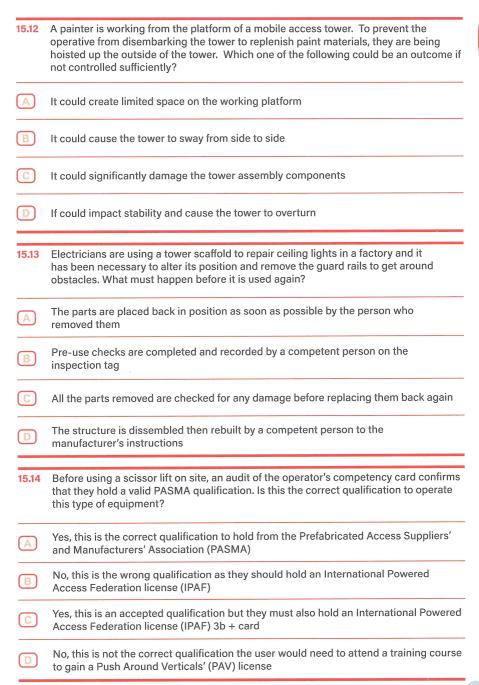
15	Working at height	184
16	Excavations and confined spaces	209

HIGH RISK ACTIVITIES 15 Working at height

15.01	Where a work at height risk assessment has identified a fall- arrest system as the last resort, what else must be in place before work can start?	
A	Emergency rescue plan	
В	Replacement harness	
C	Double anchor point	
D	Restraint lanyard	
15.02	When compiling a rescue plan for open netting system, which three measures	ratives who may fall from height into a safety s must be considered?
A	Provision of full first aid with trained p	ersonnel
В	Access at the bottom of the netting	
C	Provision for emergency recovery for	pperatives
D	Recording the details of the individual	weight of the operatives
E	Access from height to aid quick recove	ry
15.03	According to the Health and Safety Executive, what is an essential part of fall protection systems?	
A	Method statement	
В	Rescue plan	
C	Protection zone	
D	Certified workers	

15.04	A roofer has fallen from height leaving state. Which two of the following state		
1	There is ample time to plan and carry out the rescue as they are safe in their harness	A	1 and 2 only
2	They should be rescued promptly to prevent fainting and unconsciousness	B	2 and 3 only
3	They should refrain from moving and remain still while they await rescue	0	3 and 4 only
4	They should gently exercise and move their legs to slow suspension syncope	D	2 and 4 only
15.05	Why is it important to purchase fall protection equipment along with a specialist kit?	15.07	who has fallen into a safety net, is it true that no other injuries can be
A	To comply with the Work at Height Regulations 2005		sustained during rescue?
В	To allow adjustment to the individual's body weight	A	Yes, the victim is safe in the net because it is supporting them and keeping them secure while awaiting rescue
C	To aid the rescue of individuals suspended at height		awaiting rescue
D	To make the rescue easier for the emergency services	В	No, further injury to the victim could be unavoidable due to the stretching nature of the net as a rescuer enters
15.06	Which one of the following can cause the onset of 'suspension syncope'?		
A	Working on a steep pitched roof with an anchored lanyard for five hours	C	Yes, the tight knit structure of the net removes the chance of further injury to the victim from other
В	Falling from a height and hanging in a harness for more than ten minutes		potential hazards
C	Carrying out a manual task for thirty minutes from an aluminium ladder		No, the victim cannot be rescued
D	Falling from a height using a proprietary suspension loop and hanging for 10 minutes	D	from the net, so they have to attempt to make their own way out

15.08	What is the recommended maximum height for a free-standing mobile tower when used indoors?	15.10	A worker has fallen and been arrested by their fall protection equipment. What is the main reason for a quick rescue response?
A	As specified by the person erecting the access equipment	A	To prevent the onset of fainting
В	As specified by the site health and safety advisor	В	To stop them from having a cardiac arrest
C	As specified by the access equipment manufacturer	C	To prevent them from being concussed
D	As specified by the working at height regulations	D	To avoid added weight on the anchor point
15.09	What is the main significance of using a proprietary suspension loop along with a fall arrest lanyard when working at height?	15.11	Which two of the following factors must be considered when selecting the correct type of mobile tower?
	It would allow a conscious casualty to rescue and lower themselves to	A	That it is suitable for the type of work to be carried out
	the ground	В	That there is a suitably large enough area to erect it in
В	It would prevent the conscious casualty becoming entangled within their own harness	C	That it will have a suitably embedded anti-static device
	It would allow a conscious casualty		
<u> </u>	an easier rescue using this additional line	D	That it is suitable for the environment that it will be used in
	It would lessen the effects of		
D	suspension syncope on a conscious casualty	E	That it is constructed from suitable lightweight aluminium



15.15 An operative has been asked to operate a boom platform but they have not operated one recently. They do hold a valid International Powered Access Federation license (IPAF), but what else must they undertake before operating the equipment? A refresher IPAF course so their license is renewed due to the lapse of time since operating this equipment A full health assessment to deem satisfactory fitness levels with a qualified health practitioner A walk-round familiarisation check of the equipment with a competent engineer to refresh knowledge of the model A familiarisation training session on the model over a realistic time period with a competent person 15.16 An operative has been asked to use a scissor lift to carry out some urgent work at height but they are not competent to use this type of equipment. Which of the following must the operative do before they can operate it? Receive familiarisation training 1 1 and 2 only sessions from a competent person Download and use a computer 2 2 and 3 only simulator app for scissor lifts Receive formal training by a 3 3 and 4 only recognised training body Hold a correct valid training card 1 and 4 only or certificate 15.17 An engineer qualified to operate a mobile elevated work platform is working in a highrisk area of entrapment, near overhead steel beams. What must be done to reduce this significant risk to the worker before they start this work? Check that the equipment has a primary guard rail installed Select equipment that has a secondary guarding device installed Install height restrictor devices on the platform controls Make sure that the operative is issued with protective body armour

15.18	Which one of the following must employers consider first in regard to work at height activities?	15.19	To comply with the Work at Height Regulations 2005, employers must ensure the safety of those working at height, and who else?
A	The consequences of falling	A	Visitors who are being supervised
B	All equipment is inspected	В	Plant operators working nearby
C	Whether it can be avoided	C	Individuals who are passing below
D	Use of appropriate equipment	D	Contractors working around the site
15.20	Extensive roof repairs are being carried contractor has deemed a ladder as the complying with the Work at Height Reg	most su	table way to access the roof. Is this
A	Yes, because the contractor has risk assuitable access equipment.	sessed t	he work and deemed this the most
В	No, because all work from ladders has be provide a scaffold for this work.	oeen bai	nned and the contractor needs to
C	Yes, because the ladders can still be us has been inspected.	ed to ca	rry out some work as long as the ladder
D	No, because the contractor must reduc sufficient safe means of access.	e the ris	ks further and provide a suitable and
15.21	Which of the following two work situation Work at Height Regulations 2005?	ons are	covered by the
1	Standing on the back of a lorry to unload materials	A	1 and 2 only
2	Carrying out a task in an excavation or shaft	В	2 and 3 only
3	Making an additional entrance in an internal wall	C	3 and 4 only
4	Operating a forward tipping dumper	D	1 and 4 only
			•

15.22

HIGH RISK ACTIVITIES

In line with the Work at Height Regulations 2005, which one of the following is the most effective way to avoid working at height? Contractors manage their own risks for working at height and use suitable access equipment Architects and designers design out the need to work at height in the design phase Employers refuse any work that requires extensive work at height procedures Clients contract out the work to professional work at height operatives 15.23 Which three of the following requirements of the Work at Height Regulations 2005 must be considered when planning and undertaking work at height? The weather conditions that could compromise worker safety The cost of access equipment required for the work The storing of materials safely so they won't cause injury if disturbed The wearing of correctly fitted harnesses and lanyards before work starts The arrangements for dealing with emergencies and rescue 15.24 What is the main purpose of the Work at Height Regulations 2005? To prevent death and injury from any falls from height To provide enforcing rules and regulation for any work at height To preserve the health and safety standards for all work at height To promote a culture of authority and

standards for all work at height

- 15.25 What is the main difference between an employer's obligations and those of their employees when meeting the requirements of the Work at Height Regulations 2005?
- Employees must assess
 and record the risks of any
 work-at-height process,
 and inform their employer
- Employees must co-operate with their employer to make safe suggestions for work-at-height access
- Employers must assess the risks of working at height, and employees must co-operate with them
- Employers must inform
 employees of a structured
 approach, and co-operate
 when working at height
- 15.26 When carrying out a risk assessment on a work-at-height activity, why is it important to understand the concept of short duration work?
- To determine how many people will be needed to complete the task
- To determine the amount of personal protective equipment required
- To determine if ladders are acceptable to complete the task
- To determine if fall-arrest provision will be needed to complete the task

- 15.27 To comply with the Work at Height Regulations 2005, several controls must be put in place. Identify three of these from the following.
- Where reasonably practicable, avoid the need to work at height
- Make sure appropriate access equipment is used to prevent falls
- Ensure all operatives wear personal fall protection equipment
- Minimise the distance and potential consequences of any fall
- Erect collective safety barriers to ensure protection of the public
- Make sure that ladders or stepladders are available for use

- 15.31 When a work at height task cannot be 15.28 According to the hierarchy of risk control, what is the first consideration avoided, which one of the following is when assessing the risk of working the next consideration? from height? Select the correct access equipment Avoid working from height where possible Provide appropriate personal protection Select the correct access equipment Minimise the collective risk Make sure workers are from falling appropriately trained Ensure workers are trained Prevent falls from occurring and competent 15.29 What is the first hierarchy of risk 15.32 When complying with the Work at Height Regulations 2005, the control when working at height? hierarchy of risk control puts personal protection equipment above Avoid the need to work at height collective protection measures. Is this correct? Prevent the risk from falling
 - Provide appropriate
 access equipment

 Yes, collective protection should be considered after individual risks have been identified
 - 15.30 A newly qualified roofer has been asked to carry out slate repairs to a domestic property using a roofing ladder. What should be

Install collective fall protection

- their first consideration?

 Allocate this work to someone else with more experience
- Ensure the ladder complies to the British Standard EN131
- Change the access equipment to a collective protection type
- Ensure that the ladder can be properly secured top and bottom

- No, there is no specific level of precautions, this depends on the findings of the risk assessment
- No, personal protection should be considered after collective risks have been taken into account
- Yes, personal protection systems that take into account everyone at risk are always the first option

15.33	A joinery team is erecting a timber frame from height. Which of the two procedure risks from this work?		
1	Provide all workers with a current risk assessment they must follow	A	1 and 2 only
2	Erect a suitable scaffold with edge protection around the working area	В	2 and 3 only
3	Install collective safety netting under the timber frame roof area	C	3 and 4 only
4	Fit suitable barriers around ground level to stop unauthorised access	D	1 and 4 only
15.34	A worker is using a mobile elevated working platform to install solar panels on an external pitched roof. Applying the hierarchy of risk control, what must be put in place next for	15.35	A joiner is installing new roof windows into a second-floor domestic property. How can they significantly reduce the risk from working at height?
	this type of work?	A	Install a scaffold around the roof with additional edge protection
A	Completion of a plan so workers can be rescued in the event of an emergency	В	Carry out the work from a mobile operated platform with extra barriers
		0	Use lifting equipment that can take the materials up to the working height
		D	Carry out the task from within the property and below the roof
	Fitting of toe boards to the access		
B)	equipment to stop tools being accidentally kicked over	15.36	When working at height in line with guidance LA455 Safe Use of Ladders and Stepladders, which one of these criteria must be followed?
C	Issuing of short-work restraint lanyard secured to the manufactured	A	Work must be completed within a time frame of 2 hours
	anchor point within the basket	В	The worker must have two hands free at anytime to carry out the task
(E)	Installation of collective safety nets	C	Work being carried out must not compromise the stability of the ladder
D	or air bag systems close to the level of work	D	The ladder needs to be positioned so the user is side-on to the work

15.37	Which one of the following is not a
	safe way for using a ladder?

- Resting it on a gutter with one rung clearance
- B Positioning it on a firm and level surface
- Inspecting it before use to check for defects
- Positioning it away from pedestrian routes
- 15.38 British Standards and regulations for ladders changed in 2017 to BS EN 131. This means that any ladders that do not meet this new standard are deemed unsafe and should be destroyed. Is this correct?
- Yes, if a company is found to be using any ladders meeting only the previous standard, they will be prosecuted by the Health and Safety Executive
- No, ladders can still be used meeting the previous standard as long as they are in good condition and inspected regularly
- Yes, because previous standard ladders were all destroyed by the end of 2017 and new compliant ladders purchased
- No, a company should not use any ladders under the previous standard because they are too narrow at the base and were deemed unsafe.

- **15.39** Which one of the following do you need to be aware of when using telescopic ladders?
- They are difficult and awkward to extend
- B They can easily blow over in the wind
- They are prone to twisting and flexing
- They become very rigid when fully extended
- **15.40** What is the first consideration before erecting a ladder?
- The wind level is within satisfactory parameters
- There is another person available to assist
- The ladder is long enough for safe access
 - There are no overhead obstructions

15.41	An operative requires a ladder for a she been conducted and identified that a t Before the ladder can be used, which t	wo	-piece	ladder is the safest method of access.
1	Check an up-to-date and sign-off safety tag is attached to the ladder		A	1 and 2 only
2	Measure the ladder to ensure it is long enough for the height to be reached		B	2 and 3 only
3	Undertake a visual pre-use check of the ladder		C	1 and 3 only
4	Check the ladder is colour coded to identify its weight limit		D	2 and 4 only
			Constant Nation	
15.42	Which one of the following is an example where it is acceptable to 'foot' a ladder?		15.43	When completing a ladder inspection you notice a dent in one of the rungs. Which one of the following must you do?
A	When it is being used for short term work and constantly being moved as		A	Take the ladder out of service and report it
	the work progresses	Update the ladder tag to record the defect		
			C	Repair the ladder immediately
В	When it is being climbed for the first time for the purpose of tying and securing it at the top	D	Use the ladder as the task is urgent	
			45.44	
			15.44	When a mobile elevating work platform is being used for lifting people, the frequency for thorough examination should not exceed
C	When it is not possible to get a secure fixing at the top due to the nature of the material it is lying on		A	3 months
			В	6 months
D	When it is being used on its own for one worker and not part of an		C	9 months
	access scaffold		D	12 months

A The seatbelt adjustments	15.45	What operations of a mobile elevating work platform must the operator be familiar with before its use?	15.48	When operating a mobile elevated work platform at height, when is it acceptable to lower the platform using the ground controls?
has instructed an individual on the ground D	A	The seatbelt adjustments		using the ground controls:
Elevation to the maximum height D The emergency system S	В	Turning it 80 degrees	A	
basket is unable to, due to an emergency situation 15.46 When selecting a mobile elevating work platform, which one of the following would not be a priority for consideration? The type of ground for travel and positioning it The use of a marshal to assist with manoeuvring The type of beacon fitted for site-traffic management The location of overhead power lines To lowing river. Is it acceptable for them not to be clipped to it? No, because it is stipulated in the safe working procedures that individuals must be anchored to the machine by a harness Yes, because the risk assessment identified that the risk of drowning was greater the fall, but a life vest must be worn No, because there is still a risk of falling into the river, and when the	C	Elevation to the maximum height		
work platform, which one of the following would not be a priority for consideration? The type of ground for travel and positioning it The use of a marshal to assist with manoeuvring The type of beacon fitted for site-traffic management The location of overhead power lines Tonly if the person in the basket does not have full vision of the working area The location of overhead power lines The location of the working area The location of overhead power lines The location of travel and power lines The location of the working developed to the person in the basket is having difficulties going around an obstruction	D	The emergency system	B	basket is unable to, due to an
following would not be a priority for consideration? Only if the operator in the basket is having difficulties going around an obstruction The type of ground for travel and positioning it The use of a marshal to assist with manoeuvring The type of beacon fitted for site-traffic management Only if the person in the basket does not have full vision of the working area The location of overhead power lines The type of ground an obstruction Only if the operator in the basket is having difficulties going around an obstruction	15.46	When selecting a mobile elevating		
The type of ground for travel and positioning it B The use of a marshal to assist with manoeuvring The type of beacon fitted for site-traffic management D The location of overhead power lines 15.47 An engineer is carrying out an inspection from a mobile elevated work platform ove flowing river. Is it acceptable for them not to be clipped to it? No, because it is stipulated in the safe working procedures that individuals must be anchored to the machine by a harness Yes, because the risk assessment identified that the risk of drowning was greater the the fall, but a life vest must be worn No, because there is still a risk of falling into the river, and when the		following would not be a priority		Only if the operator in the basket is
with manoeuvring The type of beacon fitted for site-traffic management Only if the person in the basket does not have full vision of the working area The location of overhead power lines 15.47 An engineer is carrying out an inspection from a mobile elevated work platform ove flowing river. Is it acceptable for them not to be clipped to it? No, because it is stipulated in the safe working procedures that individuals must be anchored to the machine by a harness Yes, because the risk assessment identified that the risk of drowning was greater the the fall, but a life vest must be worn No, because there is still a risk of falling into the river, and when the	A	The type of ground for travel and positioning it	C	having difficulties going around
site-traffic management does not have full vision of the working area The location of overhead power lines 15.47 An engineer is carrying out an inspection from a mobile elevated work platform ove flowing river. Is it acceptable for them not to be clipped to it? No, because it is stipulated in the safe working procedures that individuals must be anchored to the machine by a harness Yes, because the risk assessment identified that the risk of drowning was greater the the fall, but a life vest must be worn No, because there is still a risk of falling into the river, and when the	B			
The location of overhead power lines 15.47 An engineer is carrying out an inspection from a mobile elevated work platform ove flowing river. Is it acceptable for them not to be clipped to it? No, because it is stipulated in the safe working procedures that individuals must be anchored to the machine by a harness Yes, because the risk assessment identified that the risk of drowning was greater the the fall, but a life vest must be worn No, because there is still a risk of falling into the river, and when the	C		D	does not have full vision of the
No, because it is stipulated in the safe working procedures that individuals must be anchored to the machine by a harness Yes, because the risk assessment identified that the risk of drowning was greater the fall, but a life vest must be worn No, because there is still a risk of falling into the river, and when the	D	The location of overhead power lines		working area
Rook because it is stipulated in the safe working procedures that individuals must be anchored to the machine by a harness Yes, because the risk assessment identified that the risk of drowning was greater that the fall, but a life vest must be worn No, because there is still a risk of falling into the river, and when the	15 47	An angineer is corrying out an inspecti	on from a	mobile alevated work platform over a
anchored to the machine by a harness Yes, because the risk assessment identified that the risk of drowning was greater the fall, but a life vest must be worn No, because there is still a risk of falling into the river, and when the	15.47			•
the fall, but a life vest must be worn No, because there is still a risk of falling into the river, and when the	A		working p	procedures that individuals must be
	В		ified that	the risk of drowning was greater than
	0			river, and when the

Yes, because the risk assessment identified that the boom cage provided sufficient

protection if a fall occurred

15.49	Why must the safe working load of a mobile elevated working platform not be exceeded when being used?	
A	Because It would not be able to reach full working height	
В	Because this would cause the tyres to deflate	
C	Because it would create instability when fully extended	
D	Because it would be unable to gain traction over uneven ground	
15.50	When carrying out end of day security the keys in the mobile elevated working	r inspections, it is found that workers have left og platform. What would be the main risk of this?
A	The machinery brakes will be able to u	unlock and it could roll away causing damage
В	The digital log of use on the machiner hourly rate	y will keep running, extending the leased
0	The fuel to the machinery will remain	on trickle and could pose a fuel leak and fire risk
D	The machinery could be accessed by	unauthorised persons causing vandalism
15.51	When selecting a fall protection syste boom-type mobile elevated work plat	m to allow work to be conducted safely from a form, which two would be correct?
1	Use of a work-restraint system as opposed to a fall-restraint system	A 1 and 2 only
2	Attachment of a lanyard to a designated anchor point inside the work platform	B 3 and 4 only
3	Use of a fall-restraint system as opposed to a work-restraint system	© 2 and 3 only
4	Attachment of a lanyard to a designated anchor point outside the work platform	1 and 4 only

15.52	When operating a mobile elevated working platform (MEWP) in a restricted or enclosed space, which three of the following procedures must be adhered to?
A	Operators have an in-depth understanding of all the controls
В	The MEWP is fitted with a bumper system to avoid damage to walls
C	Battery operated MEWPs are not recharged within the space
D	Liquefied petroleum gas powered MEWPs are re-fuelled outside the space
E	Operators have all been extensively trained in emergency first aid response
15.53	A mobile elevated working platform (MEWP) is being operated along a building perimeter that runs adjacent to a busy high street. Segregation is in place between pedestrians and the machine. Which one of the following precautions must also be in place?
A	Fluorescent strips are attached to the machine to ensure that it is visible
В	The machine positioning does not compromise the view of street signs
C	Noise levels of the machine are restricted to reduce the impact of noise pollution
D	Additional guards are fitted to the machine to prevent unauthorised tampering
15.54	You have been asked to carry out roof repairs on a surface containing cement sheeting. What is the most significant risk?
A	You could slip on the surface area of the sheeting due to a build up of moss
В	You could fall through the sheeting, as it is a highly fragile surface
C	The sheeting could shatter as it is brittle, damaging the roof surface
D	Touching this type of surface with bare skin could cause dermatitis

When work on a fragile surface cannot be avoided, which one of the following must be implemented to mitigate the risk from falls? Verbally inform everyone within the working area of the hazards from the fragile roof Ensure suitable and sufficient platforms, guard-rails and load-bearing covers are installed Cover the dangerous fragile area with safety netting and tell everyone to be careful Mark off the dangerous fragile area with red and white warning tape and install signage 15.56 When assessing if a roof is safe to work on, which one of the following applies? A If the roof's pitch is less than 30 degrees and covered in slate, it is safe to walk on All roofs should be treated as fragile until a competent person has В confirmed otherwise A roof should be visually inspected by a roofer from ground level and confirmed it is safe All roofs should be accessed safely using the correct roofing ladders supported on ridge tiles 15.57 Repairs need to be carried out on 15.58 By fitting which one of the following fragile roof lights. What is the safest to a roof light area will demonstrate way to access the roof lights? that a building owner has considered the hazards of working on From the top using a mobile elevated fragile roofs? work platform Warning tape around the edge of the roof light From the side using a suitable roofing ladder A metal frame cover fitted over the roof light From underneath using a suitable Edge protection fitted to the edge of working platform the roof light

From the side using roof boarding

and guard rails

Collective netting installed under the

roof light

15.59		r panels on a roof. Which of the following three equiring extra safety precautions to be taken?	
A	Concrete		
B	Slates and tiles		
C	Corroded metal sheets		
D	Wired glass		
E	Steel		
F	Timber		
15.60	A plumber needs to work on a slate ext roof be strong enough for this work?	ension roof to install an extractor duct. Will the	
A	No, this type of material is unpredictab on it	e and can collapse when added weight is put	
В	Yes, this type of material is strong enough for a person to stand on but for short periods of time only		
C	No, this type of material should not hav this work	e been used on a roof and is not suitable for	
D	Yes, this type of material is very strong,	robust, and able to withstand this work	
15.61	What significant duties must a roofer coan industrial roof?	omplete while carrying out lighting repairs on	
1	Sign off the repairs safe system of work and return this to the supervisor	A 1 and 2 only	
2	Leave a mark on the external wall indicating the repair made above	B 2 and 3 only	
3	Mark the fragile parts of the repair using red screws or bolts	3 and 4 only	
4	Record details of the repairs in the health and safety file for the building	1 and 4 only	

- 15.62 When planning a safe system of work for two similar pitched roofs (one is slate and tile, the other is fibrecement sheets), what should be the main safety consideration?
- The workers can only walk on the bolts of the fragile sheet roof, but can stand anywhere on the tiled roof
- The workers will need crawling boards installed on the fragile sheet roof, but can walk directly on the tiled roof
- The workers should work from a roofing ladder on both roofs, so long as it has the correct safe working load
- The workers will need suitable protection methods installed on both fragile roofs, to prevent anyone standing on them
- 15.63 What is the main reason for using a safety net system rather than a personal fall-arrest system?
- A They are cheaper than personal equipment
- They allow easier rescue in the event of a fall
- They can cover a wide floor area
- They provide collective protection from falls

- 15.64 A safety netting system eliminates the risk of a worker falling from height and injuring themselves? Is this true?
- Yes, the rigid structure of the netting will arrest the fall and prevent any injury
- No, the netting is designed only to catch fallen materials and debris
- Yes, the netting is designed to reduce the likelihood of falling and to minimise any injury
- No, netting could reduce the severity of injury, but does not remove the likelihood of falling
- 15.65 How would the user of a safety netting system ensure its suitability before use? Select three from the following.
- The label displays the maximum weight
- It has a unique serial number on the label
- It has been tested if older than 12 months
- The date of manufacture is visible on the label
- E The mesh size is greater than 110mm
- 15.66 To comply with the Work at Height Regulations 2005, safety netting should allow a fall distance from the working platform to be.....
- As little as reasonably practicable
- B enough to allow a person to stand up
- © 6 m below the working platform
- twice the height of the average worker

15.67	After a safety netting system has been installed which one of the	15.68	How often should safety nets older than 1 year be tested?
	following procedures must be completed before use?	A	Within the last 18 months
A	It is checked and inspected by a competent person		
B	It is tested by workers via a simulated training session	B	Within the last 12 months
C	It is double anchored at every attachment point	C	Within the last 6 months
D	It is secured underneath with a finer net to collect debris	D	Within the last 3 months
15.69	What is the significant difference between	een a 'kni	otted' and a 'knotless' safety
.0.00	netting system?	oon a kin	ottod and a knotices surety
A	A knotted type has more elasticity and knotless type	bounce t	to take a fall compared to that of the
В	A knotless type needs regular maintenance checks whereas the knotted type does not		
C	A knotted type is heavier and older whereas the knotless type is newer and made from plastic		
D	A knotless type must be securely anchored at four points whereas the knotted type does not		
15.70	When installing safety netting for work should be applied?	ers prote	ction, which two of the following
1	Ensure it is erected directly in line with the end of the working platform	A	1 and 2 only
2	Ensure it is erected as close as possible to the working level	B	2 and 3 only
3	Ensure the installation area is free from obstructions	C	3 and 4 only
4	Ensure it is registered and logged in the plant maintenance records	D	1 and 4 only

15.71	Why is it important to make sure that safety nets have sufficient clearance below them?			
A	To allow access to the net from below for rescue equipment in the event of an emergency			
В	To stop the net from making contact with the ground as it will deform after installation			
<u>C</u>	To allow adequate clearance for the safe passage below the net of plant and equipment			
D	To stop a fallen person from striking the in the net	ground	due to the deformation that will occur	
15.72	What is the best way to check that contracted scaffolders are competent to carry out work on site?	15.74	The Work at Height Regulations 2005 require scaffolders to demonstrate which one of the following?	
A	Ask to see their identification card showing their qualifications	A	That they have the required knowledge to select the correct equipment needed	
В	Ask their manager for a list of previous jobs completed	В	That they have the required training to erect, dismantle and alter the equipment	
C	Ask them some questions to check their level of knowledge	C	That they understand well how to follow the manufacturers guidelines	
D	Ask to see the risk assessment and method statement for the work	D	That they have had sufficient training to complete the risk assessment adequately	
15.73	When selecting a scaffolder to complete work on site it is important to ensure their competence. This can be done by checking which three of	15.75	Where would a competent scaffolder find information to ensure their scaffolding design is compliant?	
	the following? Their public liability	A	In the TG20:21 operational guide	
	insurance certificate			
В	Their membership of a recognised trade association	B	In the Work at Height Regulations (2005)	
C	Their health and safety performance records	C	In the BS EN 131 standard	
D	Their tools and equipment quality			
Ē.	Their evidence of completed	D	In the NASC SG4 guide	

previous work

- 15.76 Roofers have taken delivery of a large quantity of roof tiles. Why must the scaffolders be informed about these additional materials?
- To ensure the working platform is not overloaded
- To allow for alterations of the platform width
- To temporarily remove the guard rails for the material loading
- To install additional hoists for safe loading of the materials
- 15.77 What is the main significance of having a bespoke scaffold design erected on site?
- It would have a greater cost due to the extra materials and added checks required
- It would require specialist trained operatives to install and maintain it throughout
- It would need a higher level of health and safety checks and recording systems in place
- It would require strength and stability calculations completed before being erected

- 15.78 When scaffolders erect a tube and fitting structure complying to TG20:21 and BS EN 12811, additional calculations do not need to be carried out. Is this correct?
- No, all standard solutions still need additional calculations considering the configurations
- Yes, as they provide worked out calculations for all scaffolding types, including system structures
- No, they still require additional calculations to be carried out on a tube and fitting structure
- Yes, as they provide recognised standard configurations with approved calculations

15.79	A scaffolding structure has been modified. Which two of the following must a competent person carry out following this modification?		
1	An inspection and report	A	1 and 2 only
2	An equipment check and audit	В	2 and 3 only
3	Removal of all inspection tags	C	3 and 4 only
4	A handover certificate	D	1 and 4 only
15.80	A severe storm has passed over the site. What must now happen in relation to safe working on the scaffolding structure?	15.82	Which one of the following statements is false in relation to the safe use of stepladders?
A	Workers need to be warned that the platform will be slippery	A	The guard-rail barrier should be closed when in use
В	Inspection tags need to be checked to ensure they are still attached	B	The retaining hinges should be equal in length
C	The structure needs to be checked by a competent person for deterioration	C	The legs should be positioned as far apart as the mechanism allows
D	The safe system of work needs to be updated and re-issued	D	The user should be able to work from the top three steps
15.81	Which of the following statements is true regarding roofing ladders?	15.83	What is the main difference between podium steps and stepladders?
A	They should extend at least 2 metres above the eves	A	Podium steps have a restriction on the working height
В	They should only be used for short duration or low-risk work	В	Stepladders allow the worker to position themselves closer to the work
C	They should be tied together with the access ladder	C	Podium steps allow the worker to face any side of the working platform
D	They should be positioned with the anchor hook pushing on the ridge tile	D	Stepladders are much easier to store and inspect

45.04			
15.84	When setting up lightweight staging for access to work, which one of the following must it not be?	15.85	Identify the three significant failings associated with incidents involving tower scaffolds.
A	Placed on a firm and level base	A	Ignoring the system of work
В	Fitted with toe boards and guard rails	В	Referring to the manufacturer's information
	Marked with the maximum	0	Moving the frame with persons on the platform
<u> </u>	permitted load	D	Using parts from other systems
D	Accessible using a second platform	E	Using the through-the-trap motion (3T)
15.86	A mast climbing work platform (MCWP) high-rise building. Which two significant		
1	Make sure that you can identify a loss of mechanical integrity in each drive unit	of A	1 and 2 only
2	Check each drive unit is fitted with a mechanical device such a centrifugal brake	В	2 and 3 only
3	Make sure each drive unit contacts the buffers and braces with every descent	C	3 and 4 only
4	Check all switches such as limit ones are positioned at the highest	D	1 and 4 only
	acceptable level		
	acceptable level		
15.87	A mobile elevating working platform (MI external sign to a factory building. There radius of the work location, but there is a ls this true?	is a live	electrical cable within a 5 metre
15.87 A	A mobile elevating working platform (MI external sign to a factory building. There radius of the work location, but there is a	is a live no risk te	electrical cable within a 5 metre o the operators from electrical shock.
15.87 A	A mobile elevating working platform (MI external sign to a factory building. There radius of the work location, but there is a ls this true? Yes, the safe working distance from a liv	e is a live no risk to e electri be man	electrical cable within a 5 metre o the operators from electrical shock. cal cable is under 4 metres, so there is
15.87 A	A mobile elevating working platform (MI external sign to a factory building. There radius of the work location, but there is r Is this true? Yes, the safe working distance from a liv no electrocution risk in this work No, the risks from electrocution need to	e is a live no risk to e electri be man metres th insula	electrical cable within a 5 metre of the operators from electrical shock. cal cable is under 4 metres, so there is aged and controlled as the live ation and earthing devices to stop

15.88 What significant difference exists between using mast climbing work platforms (MCWPs) opposed to mobile elevating work platforms (MEWPs) that can influence its selection for use on a work at height project? They allow several operatives to work off a single platform at the same time at the desired height They need two or more drive units to co-ordinate together to raise the platform to the required height They provide protection to the risks of falling while providing temporary access to work at height They require trained operatives to hold the required certificated level to use them for work at height 15.89 What is the main significant operating difference between a boom-type and scissortype mobile elevating working platform (MEWP) that needs to be considered before selecting one for a specific activity? The scissor lift mechanisms allow for a higher reach with heavy bulky materials The booms' structure is less suitable to use for installing long heavy materials The scissor-type is more suitable for rough and uneven ground surface terrain The boom-type can be safely and effectively operated by one person 15.90 Which one of the following checks would not be carried out before using stilts to apply plaster to ceilings in a domestic house? Equipment is in good working condition Workers have received training on their correct use Apparatus meets the current **British Standard** Floor surface is level and free from obstructions

16 Excavations and confined spaces

A toxic or suffocating hazard and a

hostile environment may exist

You are delivering a safety brief to operatives who are about to conduct work in a sewer chamber. Which one of the following hazards must you talk about? The possible presence of hydrogen dioxide, which even if inhaled in small quantities can cause serious burns and death The possible presence of hydrogen sulphide, which if inhaled can cause convulsions and cardiac arrhythmias The possible presence of hydrogen monoxide, which if inhaled in small quantities can cause internal tissue damage and death The possible presence of hydrogen peroxide, which if inhaled can cause permanent lung damage or pulmonary edema 16,02 The use of any petrol- or diesel-powered equipment within a confined space creates an excess of carbon dioxide. Is this correct? Yes. Petrol and diesel engines create an excess of carbon dioxide, a suffocating hazard which can result in cardiac arrhythmias and death within minutes No. Petrol and diesel engines create concentrations of hydrogen sulphide which can result in collapse, respiratory paralysis and death in a short time Yes. Petrol and diesel engines create concentrations of hydrogen dioxide which is odourless and tasteless, resulting in collapse and death within minutes No. Petrol and diesel engines create carbon monoxide, which is an extremely toxic gas causing loss of consciousness and death in a very short time 16.03 Which one of the following is the 16.04 When carrying out a risk assessment main risk from an oxygen-enriched for working in a confined space, which one of the following needs to atmosphere within a confined space? be considered as a potential hostile Ordinary materials such as paper environment danger? and clothing will burn with Use of any form of internal exceptional ferocity combustion engine Extremes of heat will lead to a Leakage from valves, flanges dangerous increase in or blanks body temperature Vapours from solvents, white spirit Can cause loss of consciousness and or thinners death in a very short time

Oxy-propane welding and other

hot works

16.05	Which one of the following oxygen levels is the normal acceptable minimum level for working in a confined space?	16.08	Acute exposure to high concentrations of hydrogen sulphide can result in which two of the following?
A	21%		Light-headedness and increased
B	19%	A	breathing difficulties
C	17%		
D	15%	В	Nausea, respiratory difficulties and possible collapse
16.06	Which one of the following is an example of major sources of explosive and flammable hazards in confined spaces?	C	Cardiac arrhythmias and death within minutes
A	Hydrogen		
В	Nitrogen	D	Respiratory difficulties and loss of consciousness
C	Ammonium		
D	Sodium	E	Respiratory paralysis, cyanosis and convulsions
16.07	Which one of the following is the correct discovered in a confined space?	ct action t	o take first if excess oxygen is
A	The space must be quickly ventilated and the source of the oxygen leak identified		
В	The workers should ensure there are no sources of ignition present within the space		
C	The workers must not enter the space unless they are wearing breathing apparatus		
D	The space must be quickly evacuated and ventilated until normal levels of oxygen are regained		

16.09 Plans and drawings provided by utility companies are an accurate way of identifying the location of underground services. Is this correct? Yes - utility companies use ground-penetrating radar equipment to identify accurate locations of services on plans and drawings No - changes in the colour of the surface material, such as recently-laid tarmac indicate where a service trench can be found Yes - utility companies' plans and drawings have co-ordinates, and lines and levels of newly-installed services are included No - trial holes should be dug using hand excavation methods to establish the exact location and depth of the services Plans and drawings showing the locations of underground services should be 16.10 considered as historical documents that cannot be fully relied upon, and you should be careful when reading them. Is this correct? No - utility companies' ground-penetrating radar surveys are used to identify accurate locations of services and connections on plans and drawings Yes - reference points may have been moved, surfaces regraded or services moved without authority, and not all connections may be shown No - once routes have been identified, the co-ordinates, lines and levels of newlyinstalled services and connections are included Yes - changes in colour of the surface material, sometimes known as tracks, will indicate where a service trench can be found The Electricity at Work Regulations (1989) require that live overhead power lines above 16.11 33,000 volts must be isolated and made dead to prevent danger before any work takes place. Is this correct? Yes. Power lines should be isolated and made dead and practical steps should be taken to prevent danger from any live cable or apparatus No. Where work cannot be avoided the local electrical company should be consulted before any work is started, and a safe system of work planned and implemented Yes. Power lines should be isolated and made dead or where necessary, wait for the supplier to re-route them to enable the work to take place No. Work may only be carried out in close proximity to live overhead lines when there

is no alternative, and only when the risks are acceptable and can be

properly controlled

16.12	Which one of the following is the most common injury resulting from strikes to underground services?	16.15	When using a cable avoidance tool (CAT) to locate underground services, a generator can be attached to an exposed part of a
A	Damage to gas pipes, resulting in burns from fire or explosion		pipe or cable for which one of the following reasons?
B	Contact with electrical cables, resulting in major burns or death	A	To detect hidden flat metal covers, joint boxes, and so on
(C)	Damage to fibre optic cables,	В	To sweep a wider area where there are underground services
	resulting in burns to the eyeball	C	To provide a signal for the CAT to track the line of services
D	Contact with raw sewage, resulting in skin burns or leptospirosis	D	To provide a signal for the CAT to accurately locate plastic pipes
16.13	A conventional cable avoidance tool (CAT) will not locate which one of the following?	16.16	Which one of the following is a requirement of the Electricity at Work Regulations (1989), when work is
A	Electricity cables		required in an area where there are live overhead power cables?
В	Telecommunications cables	A	Where work cannot be avoided, consult the local electricity company before any work is started: a safe
C	Lead water services		system of work must be planned and implemented
D	Plastic gas pipes	В	Work may only be carried out in close proximity to live overhead lines when there is no alternative, and only when
16.14	When using a cable avoidance tool (CAT) to conduct a survey for the presence of underground services,)	the risks are acceptable and can be properly controlled
	the radio frequency is mainly used to detect which one of the following?		The live overhead lines should be
A	Fibre optic cables	C	isolated and made dead or, where necessary, wait for the supplier to re- route to enable the work to take place
В	Telecommunications cables		The River and Provident Co.
C	Gas and water mains	D	The live overhead lines should be isolated and made dead, and practical steps should be taken to prevent danger from any live cable
			Francisco nom any nive cable

or apparatus

Drains and sewer pipes

16.17	At which three of the following intervals must an excavation be inspected?
A	At the start of every work shift
B	Following alterations to the safe system of work
C	At three hourly intervals during a shift
D	After any event likely to affect strength and stability
E	After materials have fallen or been dislodged
F	As part of the site's daily health and safety inspection
16.18	Which two of the following must be in place to enable work to be carried out safely in a confined space?
A	Health and safety file
B	Adequate rescue facilities
C	Sufficient welfare facilities
D	Permit to work system
E	Respiratory protective equipment
16.19	Which two of the following factors could hinder effective communication when working in confined spaces and may need to be considered in the risk assessment?
A	Level of noise outside of the confined space which may or may not be associated with the confined space work
В	Distance between the point of entry of the confined space and the location of the first-aid facilities
C	Training for workers on the methods of communication to be used when working in confined spaces
D	Physical nature of the confined space or the presence of substances that could reduce visibility
E	Face-fit tested masks or respirators limiting the methods of communication that can be chosen

16.20		less, odoι	ırless and tasteless, and can cause loss
1	Carbon dioxide	A	1 and 4 only
2	Hydrogen monoxide	В	1 and 2 only
3	Carbon monoxide	C	2 and 3 only
4	Hydrogen dioxide	D	1 and 3 only
16.21	Access to and egress from many confi person vertically through the entry or of following apply?	ned space exit point.	es is achieved by lowering or raising a In these circumstances, which of the
1	The tripod and hoist must not be regarded as lifting equipment and the Provision and Use of Work Equipment Regulations (PUWER) would apply	A	1 and 4 only
2	Safety harnesses and rescue lines must be regarded as lifting accessories	В	3 and 4 only
3	The tripod hoist or other type of winch must be regarded as lifting equipment used for lifting persons and, as such, requires thorough examination on a six monthly basis	C	2 and 3 only
4	Safety harnesses and rescue lines must be regarded as personal protective equipment	D	1 and 2 only
		-	

16.22	Which one of the following is an essential feature of a permit to work?
A	Identification of contractors engaged to carry out work
В	Identification of those carrying out the hazardous work
C	Identification of competent rescuers for a specific job
D	Identification of who may authorise particular jobs
16.23	Which one of the following is the most accurate description of the definition of a confined space?
A	A space which is enclosed or confined, and where serious specified injuries can occur from reasonably-foreseeable specified risks
В	A space with hazardous conditions inside, or a change in the degree of enclosure or confinement
C	A space in which reasonably-foreseeable specified risks are present due to its enclosed and hazardous nature
D	A space in which there arises a reasonably-foreseeable specified risk from hazardous substances or conditions
16.24	Which of the following is the main duty of an employer under Regulation 4 of the Confined Spaces Regulations 1997?
A	Testing the atmosphere or sampling the contents of confined spaces from outside, using appropriate long tools and probes
В	Considering what measures can be taken to enable the work to be carried out without the need to enter the confined space
C	Modifying the confined space itself to avoid the need for entry, or to enable the work to be undertaken from outside the space
D	Using remote visual inspection (RVI) to carry out examinations, but only if this will provide the same results and safeguards as entry would





Environment

Environmental awareness and waste control

ENVIRONMENT

17 Environmental awareness and waste control

17.01	What should you do if you see construction materials stored under a tree?	17.03	Which one of the following is not a priority species?
A	Nothing, trees are not protected and materials can be stored anywhere	A	House sparrow
В	Make sure that the materials are removed if the tree shows signs of damage	B	Grey squirrel
C	Make sure that the materials are removed and tree protection fencing is installed	0	Dormouse
D	Make sure that the tree is watered regularly until the materials are removed	D	Common toad
17.02	If it is suspected that bats are roosting on a site, which two of the following statements are true?	17.04	What legal duty does the Wildlife and Countryside Act 1981 place on a site manager when Japanese knotweed is discovered on a site?
A	Bats breed during the winter and their roosts are protected only at this time	A	To ensure it is moved to an isolated part of the site
	A bat survey should be carried out by	B	To prevent it spreading to the wild by cordoning it off
В	a qualified specialist	C	To prevent it spreading to the wild by excavating it
<u> </u>	Bats hibernate in the summer, and cannot be relocated during this time	D	To ensure it is undisturbed as it is protected by law
D	A bat roost can be destroyed, damaged or relocated if it is unoccupied		
E	A bat licence holder is legally allowed to capture, handle or relocate bats		

		The second second second				
17.05	A construction project must protect and pr Which of the following are the key reasons in the planning stage of a project?	eserve for ider	the ecology of the surrounding area. tifying and managing wildlife early			
1	To avoid investigation and prosecution under the Biodiversity Act	A	1 and 2 only			
2	To avoid investigation and prosecution under environmental legislation	В	2 and 3 only			
3	To avoid being targeted by eco-warriors or animal protection groups	C	2 and 4 only			
4	To avoid costly delays to the programme and possible loss of reputation	D	3 and 4 only			
17.06	To comply with water management and po following indicates some of the actions rec	llution o Juired p	control policy, which one of the rior to work starting on site?			
A	Identify all existing site drainage systems, mark them on site plans, and seal all drains to prevent accidental entry of mud and silt					
В	Identify all existing site drainage systems, systems on all drains to prevent waste and	mark th I pollutio	em on site plans, and fit filter on entering the drainage system			
0	Identify all existing site drainage systems, all drains to prevent accidental entry of mu	mark th ıd and s	em on site plans, and cover/protect ilt			
D	Identify all existing site drainage systems. pollution barriers around every drain, at le	mark th ast 1m f	em on site plans, and install anti- rom the edge			
17.07	Under the Treasure Act 1996 (for England,	Wales a	and Northern Ireland), which one of			
17.07	the following would be classed as treasure					
A	Objects that contain at least 40% of gold of	or silver,	and are at least 200 years old			
В	Objects that contain at least 10% of gold c	or silver,	and are at least 300 years old			
0	Objects that contain at least 20% of gold of	or silver	and are at least 200 years old			
D	Objects that contain at least 30% of gold	or silver	, and are at least 300 years old			

ENVIRONMENT

17.08	You are managing the removal of asbestos waste from your site. Which one of the following statements is correct regarding its removal?	17.10	BREEAM is a third-party environmental tool that is used to certify the sustainability credentials of a building. What does BREEAM stand for?
A	It must have a controlled waste consignment note, be transported by a registered waste carrier and taken to a suitably authorised facility within 24 hours	A	Building Research Establishment's Environmental Assessment Method
B	It must have a hazardous waste consignment note, be transported by a registered waste carrier and taken to a suitably authorised facility within 24 hours	В	Building Research Establishment's Environmental Assessment Management
0	It must have a controlled waste transfer note, be transported by a registered waste carrier and taken to a suitably authorised facility within 48 hours	C	Building Research Establishment's Environmental Assessment Manual
D	It must have a hazardous waste transfer note, be transported by a registered waste carrier and taken to a suitably authorised facility within 48 hours	D	Building Research Establishment's Environmental Assessment Monitoring
17.09	Which final element is missing from this four-point pollution incident response process? Stop - Contain - Notify - ?	17.11	Which one of the following would not be considered a benefit of an environmental management system?
A	Review	A	To improve cost and efficiency savings
B	Clean up	В	To reduce the use of brownfield sites
0	Take action	C	To improve performance and customer relationships
D	Monitor	D	To contribute to wider Government targets

17.12	Which one of the following documents must be used for hazardous waste transfers?	1	17.15	You have been asked to complete a waste transfer note. Which two of the following sections must be completed?
A	A waste environmental permit			
В	A waste transfer note	(A	Section A2 - How the waste is contained
0	A waste management licence			Section D3 - European waste
D	A waste consignment note		B)	catalogue (EWC) codes
17.13	Which one of the following controls should be in place to reduce the risk of pollution from a designated concrete and cement washout area?		C	Section B2 - Name of the unitary authority or council
A	It should be at least 5 metres from a watercourse			Section C2 - Contaminated land:
B	It should flow straight into a foul water drain		D	applications in real environments codes
0	It should be at least 10 metres from a watercourse or drains			Section B3 - The process giving rise to
D	It should be directed so the flow soaks into alkaline-lined containers		E	the waste
17.14	You have hired an asbestos contractor these be classified as dangerous for c of Dangerous Goods and Use of Trans (CDG) and the Control of Asbestos Re	arria spor	age, a table	nd so need to comply with the Carriage Pressure Equipment Regulations 2009
A	Yes - this type of asbestos is classed a escape during carriage, and so both s	as fil ets (brous of reg	, which means that particles can ulations would apply
В	No - the fibres are bound in cement a you would only need to comply with th			not escape during carriage, therefore
0	Yes - this type of asbestos is classed a in UN-certified bags, so both sets of r	as h egu	ighly l lation	hazardous and must be double bagged s would apply
D	No - the fibres are bound in cement a would only need to comply with the C			t escape during carriage, therefore you lations
THE RESERVE				

ENVIRONMENT

17.16	Under the Environmental Protection Act 1990, it is an offence to operate a regulated waste facility without the relevant permit. Which of the following are the current maximum penalties?				
1	Fined up to £50,000	1 and 2 only			
2	Imprisoned for up to five years	1 and 3 only			
3	Imprisoned for up to four years	2 and 4 only			
4	Fined up to £30,000	3 and 4 only			
17.17	Which two of the following are not asso	ociated with brownfield sites?			
A	It is unlikely that they contain contaminated land				
В	It is likely that they contain contaminated land				
C	They are exempt from the Environment	al Protection Act 1990			
D	They have had some form of previous de	evelopment			
E	They can pose risks to human health and	d the environment			
17.18	When managing contaminated land, when discussions regarding permits and licer	nich two regulators should be involved in nees?			
1	The Health and Safety Executive	A 1 and 2 only			
2	The relevant Local Authority	1 and 4 only			
3	The Environment Agency	2 and 3 only			
4	The Contaminated Land Agency	3 and 4 only			

17.19	Before working on contaminated land, the hygiene unit is needed. Which one of the					
A	The unit should be divided into at least three areas that includes a dirty area, a washing and toilet area, and a clean area. The unit must be cleaned and decontaminated on a daily basis.					
В	The unit should be divided into at least to clean area. The unit must be cleaned and					
C	The unit should be divided into at least four areas that includes a dirty area, a washing and toilet area, an incineration area, and a clean area. The unit must be cleaned and decontaminated on a daily basis.					
D	The unit should be divided into at least to clean area. The unit must be cleaned and					
17.20	Which one of the following is required when using mobile plant for the remediation of contaminated soils?	17.22	Before construction work begins, the local authority has identified a site as formally contaminated. What action must be taken?			
A	Environmental certificate					
В	Environmental permit	A	Fence the affected area off, restrict access, erect adequate warning notices that advise that the area is dangerous and what the contaminant			
0	Remediation permit		hazard is			
D	Remediation certificate	В	Fence the affected area off, restrict access, erect adequate warning notices and post information leaflets to all local residents to inform them that the site is dangerous			
17.21	Gas membranes are becoming a		that the site is dangerous			
	more common part of the building process, and must be protected during construction. Which one of the following will not help to protect the membrane's integrity?	0	Fence the entire site off, restrict access, and erect adequate warning notices that advise all members of			
A	Toolbox talks about safe procedures		the public that the site is dangerous			
B	Restricted access to the working area		Formally and the off and the			
0	Correct personal protective equipment (PPE)	D	Fence the entire site off, restrict access, erect adequate warning notices and post information leaflets			
D	Warning notices near the working area		to all local residents to inform them that the site is dangerous			

17.23	You have recently conducted a remediation process on a brownfield site that was formerly a lead works.	17.25	What should be the minimum capacity of a spillage bund around a fuel storage tank?
	Which one of the following would be your primary action to identify whether the process has been successful?	A	130% of the total potential stored contents
		В	150% of the total potential stored contents
A	Monitoring, testing and sampling of watercourses within a 100m radius	C	110% of the total potential stored contents
B	Monitoring, testing and sampling of the land within the site boundary	D	175% of the total potential stored contents
	and faria within the cite beariagry		
<u> </u>	Monitoring, testing and sampling of the air quality within a 200m radius	17.26	The programme of works you are managing has run behind and you will need the site to be operational on a Sunday. The operations will be noisy and there are nearby residents. What action should you take before you start the operations?
	Monitoring, testing and sampling of		
D	the immediate land, watercourses and air	A	Inform the residents of your planned operation and offer hearing protection
17.24	Should different classifications of soil be stockpiled separately?		
A	No, all soils can be stockpiled together for easy disposal	B	Apply to the Local Authority for a Section 61 consent notice
В	Yes, this will help to avoid cross-contamination of the soil	C	Inform the residents of your planned operation and associated noise levels
0	Yes, this will help to make it easier to dispose of the soil		
D	No, this is not a requirement under COSHH regulations	D	Apply to the Local Authority for a Section 60 notice

17.27	To prevent pollution to watercourses, stockpiles and soil heaps must be placed away from drains and watercourses. What would be the most reasonably practicable solution	1	7.29	Which two of the following would be the most effective way to prepare the workforce to efficiently respond to a pollution incident?
	to avoid silt run-off?		A	Training in the correct use of spill kits
A	Pumping the water run-off directly onto greenfield land		В	Having an incident response plan displayed on site
В	Channelling the water run-off directly into the foul water sewer	(С	Using toolbox talks to discuss the incident response plan
C	Channelling the water run-off directly onto brownfield land		D	Undertaking simulated incident response exercises
D	Installing geotextile silt fencing around the stockpiles and heaps	(E	Having a sufficient number of spill kits around the site
17.28	Is it acceptable to allow effluent that is produced from a concrete and cement washout to flow into a drain, watercourse or the ground?	1	7.30	You have identified a noise nuisance on site. Which two of the following would not be considered as 'best practical means' to control the nuisance?
A	Yes, the washout is neutral, does not cause pollution, and does little harm to the environment	(A	Ensuring that the workforce is competent and experienced
В	No, the washout is highly alkaline, causes severe pollution, and is harmful to the environment	(В	Ensuring that the workforce's technical knowledge is current
	No, the washout is highly acidic,	(C	Consideration of the financial implications
0	causes severe pollution, and is harmful to the environment	(D	Consulting with the local community
D	Yes, the washout is highly alkaline, does not cause pollution, and does little harm to the environment	(E	Consideration of the design, construction and maintenance of buildings

17.31	To avoid complaints, which one of the following would be the most effective way of managing dusty materials on site?			
A	Dampen them every day			
В	Store them under a cover			
0	Place them away from the site			
D	Provide face masks			
17.32	Ground works are due to start around dust has been identified as a hazard. Frisks are mitigated, therefore reducing local community?	low car	n this w	ork be controlled so air pollution
A	Dampen down the site at the end of ea	ıch dus	st-produ	cing activity
В	Conduct an assessment and apply ber	nchmar	ked gui	delines to test the deposits
C	Complete daily visual assessments and	d stop	work if c	lust levels rise
D	Implement additional safety inspection	ıs to de	emonstr	ate active monitoring
17.33	During a recent site inspection, you ha and you have decided to address this b Which of the following statements are	y deliv	ering to	at waste is becoming a concern olbox talks to the workforce.
1	Waste costs money to produce, and m to dispose of and remove	noney	A	1 and 4 only
2	Rising landfill tax rates encourages the reduction of waste consigned to landf		В	2 and 3 only
3	The true cost of disposing waste is arc twenty times the cost of hiring a skip	ound	0	3 and 4 only
4	The production of waste can be totally eliminated during the construction ph		D	1 and 2 only

17.34	You are managing a housing project and the work has created large amounts of surplus soil. Applying the waste hierarchy, which one of the	17.36	Can waste electrical and electronic equipment (WEEE) be disposed of with other wastes?
	following would be the most favoured option?	A	Yes, but only if it is put in scrap metal skips
	Recycle the soil and distribute to	В	No, it must be disposed of separately
A	other local projects, which promotes ecological transfer.	<u> </u>	No, it needs to be incinerated separately
	Dispose of the soil to a local landfill	D	Yes, but only if it is mixed with other hazardous waste
B	site, which will help to balance soil		
	pH levels.	17.37	You need to dispose of some plasterboard off-cuts. Can these go in with the general waste?
<u> </u>	Reuse the soil for landscaping on the site, which will have minimal environmental impact.	A	Yes, it is classed as non-hazardous waste and can be mixed with other waste
D	Recover the soil so that it can be used for composting, which will support biodiversity.	В	Yes, it is classed as hazardous waste and the off-cuts are insignificant in size
17.35	When disposing of construction and demolition waste, which one of the following is not a requirement?		
A	Contractors who carry or collect waste must have a waste carrier's licence	<u> </u>	No, it is classed as hazardous waste and should not be mixed with other wastes
В	Waste must be passed on to an authorised person		
C	Waste disposal facilities must have an incinerator	D	No, it is classed as non-hazardous waste and should not be mixed with other wastes
D	All waste transfers must be supported by the correct document		Other wastes

- 17.38 An employee decides to deliberately discharge the contents of a concrete and cement washout into a watercourse. Which one of the following could be held directly responsible for the pollution and be prosecuted? The site manager The company The employee The client 17.39 Which one of the following should be the primary consideration during all phases of a construction project? Waste recycling Waste disposal Waste hierarchy Waste storage 17.40 Which one of the following is not a class of waste in relation to the disposal to landfill? Inert waste Non-hazardous waste Hazardous waste
- 17.41 If a waste management plan is implemented on a construction site, which two of the following would be the main benefits?

 To ensure all forms of waste
- To ensure all forms of waste are recycled
- To help meet environmental obligations
- To ensure repeat business
- To maintain a competitive edge
- To help identify and minimise waste at the design stage

Toxic waste





Specialist activities

The following specialist activities are included within the managers and professionals test and **all** need to be revised.

18	Demolition	230
19	Highway works	239

SPECIALIST ACTIVITIES 18 Demolition

18.01	the stability of a structure that is due for demolition, which two of the following would be deemed competent to provide assistance?		
A	A civil engineer		
В	A structural engineer		
0	The company site manager		
D	An environmental manager		
E	A demolition engineer		
18.02	The Construction (Design and Manage must check that their workers are com deemed areas of competence?	ement) Re petent. V	egulations 2015 state that contractors Vhich two of the following are not
1	Skills	A	1 and 2 only
2	Health	В	2 and 4 only
3	Experience	C	3 and 4 only
4	Fitness	D	1 and 3 only
18.03	What is the main reason that an inexperienced client should seek the assistance of a demolition engineer or consultant?		
A	To ascertain the type and quantity of controlled explosives needed		
В	To receive appropriate guidance on the appointment of duty holders		
C	To formally apply for a Section 80 notice to permit the demolition work		
D	To source utility companies' drawings that identify underground services		

The second second	
18.04	You are about to start a demolition project, and you are looking to employ a suitably-qualified supervisor. How would you know if they met the requirements of the National Demolition Training Group? They would hold
A	a Black card and a National Vocational Qualification (NVQ) Level 6 or higher
В	a Green card and a National Vocational Qualification (NVQ) Level 3 or higher
<u>C</u>	a Grey card and a National Vocational Qualification (NVQ) Level 3 or higher
D	a Blue card and a National Vocational Qualification (NVQ) Level 2 or higher
18.05	When working in the demolition sector, an individual would be deemed a competent person if they
A	hold a National Demolition Training Group yellow card, a first-aid qualification and have experience of working on demolition sites
В	have practical and theoretical knowledge, with actual experience of the type of demolition that is taking place on the site
C	have experience in health and safety, and theoretical knowledge of the different types and methods of demolition work
D	hold a National Demolition Training Group purple card, and have asbestos awareness and experience of working on demolition sites
18.06	In appointing a demolition contractor which one of the following would be the preferred method to gain information on their competence?
A	Speak to their last client about the type of work, size of the project, whether there were any problems during the works they carried out, their performance and whether the client would use them again
В	Speak to their last client about the contractor's fees, size of the project, whether there were any problems during the works, punctuality and whether the client would use them again
C	Speak to their last client about the contractor's fees, size of the project, whether there were any problems during the works, punctuality and whether the client would recommend them
D	Speak to their last client about the type of work, size of the project, whether there were any problems during the works, punctuality and whether the client would recommend them

18.07	Which one of the following factors should be considered when assessing an individual's competence before allowing them to work on a demolition project?	18.09	You have been tasked with carrying out demolition work that is near to overhead cables. Who must be contacted before work starts?
A	Literacy levels	A	The Health and Safety Executive (HSE)
В	Fear of heights	B	The local fire and rescue service
0	Reaction to instructions	0	The relevant power supply company
D	Communication methods	D	The local authority
18.08	You are managing the partial demolition of an office block built in 2010, which has been extensively damaged by recent storms. Before	18.10	The risk of lead exposure is considered to be greater in which one of the following situations?
	you start, you need to review safety- critical information on how the original structure was designed and built. In which one of the following documents would you find this?	A	Working on a commercial premises roof, installing lead slates, lead flashing and lead fixings
A	The pre-tender health and safety plan	В	Working in post-1970 buildings, especially during repair, maintenance, refurbishment and demolition
B	The demolition management file	6	Working on an industrial premises
0	The construction phase plan		roof, stripping lead sheeting, lead flashing and lead underlays
D	The health and safety file	D	Working in pre-1970 buildings, especially during repair, maintenance, refurbishment and demolition

18.11	A noise assessment on a demolition project has found that 'Noise levels are likely to exceed the upper exposure action value'. What is this upper value, and what action would you take to reduce risk?						
A	The upper exposure action value is 85 dB(A). Use toolbox talks to communicate this issue to the workers who will be at increased risk, and issue hearing protection.						
В	The upper exposure action value is 85 dB(A). Create hearing protection zones that are clearly indicated with signs, and make hearing protection mandatory within these zones.						
0	The upper exposure action value is 95 dB(A). Use toolbox talks to communicate this issue to the workers who will be at increased risk, and issue them with hearing protection.						
D	The upper exposure action value is 95 dB(A). Create hearing protection zones that are clearly indicated with signs, and make hearing protection mandatory within these zones.						
18.12	You are planning the demolition of a bu hazards and risks. Which of the followi the workforce?	uilc ng	ling, wh would	nich involves identifying the associated you consider as health hazards to			
1	Proximity concerns (tunnels, watercourses, etc.)		A	1 and 4 only			
2	The type of construction and the materials used to build it		В	1 and 3 only			
3	The age of the building and what it was previously used for		0	2 and 3 only			
4	Separation points and their perceived load paths		D	2 and 4 only			
18.13	Your company is demolishing a pre-19 exposure to lead dust, fumes and vapo			-			
1	Removal of old doorframes and window frames by hand		A	1 and 2 only			
2	Ripping out existing stud partition walls and ceiling boards		B	2 and 3 only			
3	Stripping out and removing old gas pipework and guttering		0	2 and 4 only			
4	Cutting of steel and metal materials using hot work processes		D	3 and 4 only			

18.14	Which one of the following is considered to be a greater risk to health when working inside pre-1970 buildings, especially during repair,	18.17	What does the acronym FOPS stand for?
	maintenance, refurbishment and demolition?	(A)	Falling object protective scaffold
A	Exposure to lead paint through dust and fumes	B	Flying object protective structures
B	Exposure to silica dust from mobile crusher operations	C	Falling object protective structures
<u> </u>	Exposure to isocyanates from chemical cleaning products	_	
D	Exposure to Legionella bacteria from old stagnant water tanks	D	Flying object protective system
18.15	Which one of the following would be the primary health concern when demolition work is planned on a building that was constructed prior	18.18	Which one of the following must be adhered to when planning demolition operations that require the use of plant and equipment?
A	to 1999? The presence of oil	A	Construction (Design and Management) Regulations 2015 (CDM)
B	The presence of lead	B	Code of Practice for Full and Partial Demolition (BS 6187:2011)
<u>C</u>	The presence of fibreglass	C	Code of Practice for Temporary Works Procedures (BS 5975:2019)
D	The presence of asbestos	D	Provision and Use of Work Equipment Regulations 1998 (PUWER)
18.16	What is the area called that receives materials from soft stripping or demolition operations?		
A	The dumping zone		
В	The landing zone		
0	The placing zone		
D	The waste zone		

18.19	You are risk assessing demolition work on a site where lifting equipment and excavators with high reach will be operating. Directly above, there are overhead power lines carrying 400kV on metal pylons. These lines must be isolated and disconnected, with written confirmation received on site before any demolition commences. Is this correct?
A	Yes - disconnection confirmation must be received in good time, and be acknowledged in writing by the principal contractor or contractor in control of the works
В	No - if isolation or disconnection are not possible, adequate control measures should be put in place following advice from the relevant power supply company
C	Yes - prior to work starting, disconnection confirmation in writing should be incorporated within both the construction phase plan and safe systems of work
D	No - if isolation or disconnection are not possible, the relevant power supply company will monitor demolition works on the site
18.20	You are working on a demolition project, and have been tasked with supervising the sorting of large quantities of different types of metal waste into segregated skips. You can use a mechanical excavator for this task, and must now select the most suitable attachment for this job, which is
A	a hydraulic processor - as you will need to cut, crush and manipulate the waste materials
В	a grapple - as you are only handling and sorting light metals and general waste materials
C	a hyper-mobile arm - as you can lift very heavy material around by up to 360°
	a bucket - as you can scoop up large quantities of waste with each operation
18.21	When using oxy-propane cutting equipment for a demolition task, which two of the following conditions must be met?
A	Cylinders are secured in a horizontal position, at least 5 m from any party wall, boundary fence line or hoarding
B	Cylinders are secured in an upright position, at least 3 m from any party wall, boundary fence line or hoarding
0	Hoses are secured with jubilee clips, not crimped fittings
D	Petrol or gas lighter are used to ignite the cutting torch
E	Flashback arresters are always fitted between cylinder gauges and hoses

18.22	When planning to use a super-high reafactors relating to the ground condition	ch 360° excava s must be imp	ator, which of the following lemented to ensure safe use?	
1	The excavator must be fitted with varia width tracks as it is heavier than a standard excavator	ble	1 and 2 only	
2	The excavator should not be used for opiling frame-level tasks due to its lower		2 and 3 only	
3	The excavator needs to have a decreas ground-bearing pressure and reduced working envelope	ed	1 and 4 only	
4	The excavator should be segregated for areas where any voids or ducts have been identified	om	3 and 4 only	
18.23	You are reviewing a risk assessment wi they start work on part of a demolition aware that the base of the high-reach r	project. Why is	it important that they are made	
A	The operator will have a restricted view of the structure that they are working on			
В	The operator is unlikely to have adequate protection if large pieces of the structure fall down the boom and hit the cab			
0	The operator will be at a greater risk from dust, silica, and asbestos hazards			
D	The operator must follow strict procedures that prohibit the boom from being used at an angle greater than 50°			
18.24	The level of supervision required on podependent on which of the following?	tentially hazar	dous demolition work is	
1	The planning and management abilities of all involved	A 1 an	d 2 only	
2	The individuals' education, physical agility, literacy and attitude	1 an	d 4 only	
3	The training, knowledge, experience and skills of the workforce	2 ar	d 3 only	
4	The communication of control measures and precautions	3 ar	nd 4 only	

18

18.25	When developing a construction phase plan that incorporates demolition work, which one of the following would not need to be included?	18.28	When operating a mobile crusher, and processing materials created by a demolition project for reuse on site, which one of the following procedures should be avoided?
A	Contractor interviews and tender documents	A	Manually removing debris when the crusher has stopped and is isolated
В	Project information and scope of work	B	Checking the machinery guarding on the crusher at frequent intervals
0	Existing environmental information and drawings	<u> </u>	Standing on the access platform while the crusher is running
	Risk assessment and special hazards		Operating the crusher at the same time as other plant
18.26	Which is the preferred method of demolishing brick or internal walls by hand?	18.29	In which one of the following common demolition processes would a 360° adapted demolition rig with multi-functional attachments
A	Undercut the wall at ground level		be used?
В	Work in the reverse order to construction		For situations where the machine operator is isolated and does not have visibility of all of the structure's elevations
C	Work in the same order as construction		
D	Remove at corners and collapse in sections		For relatively low-level buildings or after other height reduction techniques have been carried out
18.27	Which one of the following does not support good health and safety standards on a demolition project?	B)	
A	Ensuring that safe systems of work are in place and adhered to		For undermining or undercutting of structures when a machine is unable
В	Appointing a suitably-competent demolition contractor		to reach the top of the building
0	Informing site workers of the location of the asbestos survey		For poor ground conditions where there is increased ground-bearing
	Ensuring that there is sufficient time	D	pressure and extended working envelopes

18.30	Your company has been appointed as principal contractor for the decommissioning and demolition of a disused telecommunications centre. For this type of project, which two of the following are good practice recommendations identified in the code of practice for full and partial demolition (BS 6187:2011)?					
A	Appointment of a nationally-registered demolition contractor					
B	Acquiring a knowledge of the site, including its former uses					
<u>C</u>	Identifying opportunities for materials to be reused, reclaimed and recycled					
D	Identifying and establishing responsibilities during the demolition process					
E	Giving notice to the Local Authority Build	ling Cor	trol department			
18.31	The height of a wall or building to be demolished should not normally be greater than the maximum reach of the machine being used to carry out the work. Is this correct?					
A	No - the machine operator takes into account the height of the structure being demolished and the buildup of debris					
B	Yes - this ensures that a safe distance is being maintained between the machine and the structure being demolished					
C	No - the machine operator can construct a ramp, using rubble from previous demolition for the machine to sit on to increase the reach					
D	Yes - this ensures that the machine operator is able to clearly see all elevations of the structure being demolished					
18.32	Under the Certification of Competence of Demolition Operatives (CCDO) card scheme, what colour card would a demolition labourer have?	18.33	The demolition industry has developed a process called DRIDS, which explains how to identify, reuse or recycle waste. What does the abbreviation DRIDS stand for?			
A	White	A	Demolition and recycling information datasheets			
B	Yellow	В	Demolition and refurbishment information datasheets			
C	Red	C	Demolition and reuse information datasheets			
D	Green	D	Demolition and renewal information datasheets			

19 Highway works

19.01	When normal traffic management arrangements are not feasible due to restricted road width, which method of work should be used, and what key safety measures do they provide?				
A	Safety zone working - traffic speeds must be reduced to 20 mph or less alongside the working space				
В	Convoy working - traffic is directed through the works by an appropriately-signed works vehicle				
	Chicane working - traffic must be released in small quantities by the use of Stop/Go boards				
D	Shuttle working - traffic signals are used to alternate flows on a one-way section of the road				
19.02	Where trench excavations have to be left open as part of ongoing water mains replacement works in		19.03	How must highways signage and guarding equipment be properly secured?	
	a pedestrianised area, they must be covered with road plates at night in order to open the footway. Is this correct?		A	With kerbstones	
	Yes - excavations in pedestrianised areas should be covered with road		В	With ground fixtures With built-in weights	
A	plates at night, and their use should be planned in advance to identify the appropriate size and thickness		C		
	No - excavations should be adequately guarded at night, and		D	With chains	
B	where necessary should be fitted with lights where construction workers or the public could be put at risk of falling		19.04	If there is the potential for mud from a site to create a hazard on public roads, what should be the site manager's primary action?	
C	Yes - excavations should be covered with road plates at night, and the surface of the plates should be non-		A	Create a dedicated team to clean the road regularly	
	slip, as well as free of trip hazards, raised edges or overlaps on boarding		В	Employ an effective on-site wheel-washing system	
	No - excavations in pedestrianised areas should be adequately guarded		0	Employ a mechanical road sweeper to clean the road	
B	at night, and fitted with temporary covers if required, taking the needs of the general public into account		D	Erect road signs to warn road users of the mud hazard	

for setting out highways signs?	Jara y Jar	illia illiorillation about the distances
The Traffic Signs Manual	A	1 and 2 only
The Code of Practice (Green Book)	В	2 and 3 only
The Safe System of Work	0	3 and 4 only
The Code of Practice (Red Book)	D	1 and 4 only
On a single carriageway that has a speed limit of 30 mph or less, what are the minimum requirements for the visibility of the first sign for roadworks, in terms of placement and size?	19.08	You are managing a highways works team, and the weather forecast indicates that heavy rain and mist are moving towards your location. Which one of the following should be your primary action?
At least 40 m distance, and 650 mm in size	A	Brief the team on the situation, ensure that each worker has wet weather clothing, and provide them with strobe lights to make them more visible in the poor conditions
At least 50 m distance, and 700 mm in size		
At least 60 m distance, and 600 mm in size		Brief the team on the situation,
At least 30 m distance, and 500 mm in size	B	deploy additional signs to alert road users of the incoming weather, and then abandon
Which one of the following is not a requirement for inspecting highways signs on an attended site?		Brief the team on the situation,
Every time you start work		ensure that additional signs are available and ready to be deployed, and monitor the weather with a
Regularly during active work		view to abandoning operations if conditions become poor
After every three hours	D	Brief the team on the situation, ensure that additional signs and strobe lights have been deployed, and prepare the workers to abandon
Before you leave the site		operations when conditions start to become poor
	The Traffic Signs Manual The Code of Practice (Green Book) The Safe System of Work The Code of Practice (Red Book) On a single carriageway that has a speed limit of 30 mph or less, what are the minimum requirements for the visibility of the first sign for roadworks, in terms of placement and size? At least 40 m distance, and 650 mm in size At least 50 m distance, and 700 mm in size At least 30 m distance, and 600 mm in size Which one of the following is not a requirement for inspecting highways signs on an attended site? Every time you start work Regularly during active work After every three hours	The Traffic Signs Manual The Code of Practice (Green Book) The Safe System of Work The Code of Practice (Red Book) On a single carriageway that has a speed limit of 30 mph or less, what are the minimum requirements for the visibility of the first sign for roadworks, in terms of placement and size? At least 40 m distance, and 650 mm in size At least 50 m distance, and 700 mm in size At least 30 m distance, and 500 mm in size Every time you start work Regularly during active work After every three hours

19.09	For mobile works on a dual carriageway with a speed limit of 40 mph or less, which one of the following safety measures is recommended?	•	19.12	What action is required when a highways vehicle fitted with a direction arrow is travelling from site to site?		
A	Placing appropriately-sized signs in the central reservation		A	Point the direction arrow upwards		
В	Safeguarding operatives with an impact protection vehicle	-	В	Make the visibility of the direction arrow clear		
	Providing and displaying various vehicle-mounted signs	-	0	Point the direction arrow downwards		
D	Not allowing frequent work stops of more than 15 minutes		Đ	Cover or remove the direction arrow		
19.10	When conducting work on a single ca front of the work area to provide some the following are the correct minimun speed, that must be maintained betw	e pł n di	nysical stances	protection to the driver. Which two of s, dependent upon the imposed road		
1	Two metres, for a speed limit of 30 mph or less		A	1 and 2 only		
2	Five metres, for a speed limit of 40 mph or more	-	В	2 and 3 only		
3	Eight metres, for a speed limit of 30 mph or less	_	0	1 and 4 only		
4	Ten metres, for a speed limit of 40 mph or more	_		3 and 4 only		
19.11	Which two of the following situations require a highways team operative to switch on the amber flashing beacon that is fitted to a highways vehicle?					
A	At all times when the vehicle is being	use	ed			
В	At all times during short-duration sta	tic	works			
C	When travelling to and from the site of	com	pound			
D	In poor weather conditions if lighting I	eve	els or vis	sibility is poor		
E	When the vehicle is travelling slower t	har	n the sp	eed of traffic		

19.13	When planning highway works that require setting up portable traffic signals to ensure the safe movement of vehicles, which one of the following statements applies?
A	The relevant highways authority must be notified of works requiring the use of portable traffic signals 14 days prior to starting the works
В	The relevant highways authority must be notified of the requirement for portable traffic signals no later than 10:00 on the morning of the works
C	The relevant highways authority and local council must give written authorisation of works requiring the use of portable traffic signals
D	The relevant highways authority must be informed so that authorisation can be obtained for the works to use portable traffic signals
19.14	When conducting work underneath or in close proximity to overhead power lines, it should not be done during darkness or poor visibility weather conditions. Is this correct?
A	Yes, as the operator's vision will become significantly impaired and could confuse the distance of the power lines
В	No, as there are specific safe systems and monitoring procedures in place for operating around power lines
0	Yes, as the reflection from the vehicles lighting can obscure rather than illuminate the power lines
D	No, as the vehicles are fitted with specialist external lighting that clearly illuminates the power lines
19.15	Which two of the following vehicle requirements must be met when carrying out short-duration static works on a dual carriageway?
A	The vehicle must have one or more amber warning beacons, which should only be activated if travelling within the works area
В	The vehicle must have one or more amber warning beacons remaining on at all times, so that at least one beacon can be seen from any direction
<u> </u>	Vehicle-mounted 'Keep right/left' signs must be clearly displayed when the vehicle is travelling to and from the works area
D	A 'Keep right/left' sign must be displayed for drivers approaching the works on the same side of the carriageway, showing which side to pass
E	The vehicle must have two or more amber warning beacons, so that at least two beacons can be seen by drivers approaching the works

19.16	Which two of the following must apply when planning to control traffic movements at highway works using the 'give and take' method of traffic control?
A	Drivers approaching the works are made aware that the speed limit is 40 mph or less
В	No more than 25 heavy goods vehicles or buses can pass the works every hour
0	Drivers approaching from either direction can see 50 metres beyond the end of the works
D	The length of the works from the first cone to the last cone is 75 metres or less
E	Two-way traffic flow is no more than 20 vehicles counted over 3 minutes passing the works
19.17	For operatives cutting grass verges near to a B-class road, which of the following is an example of the minimum acceptable level of high-visibility protection?
A	High-visibility trousers with two 5 cm reflective bands around each leg
В	High-visibility vest with two 5 cm bands of reflective tape around the body
0	High-visibility vest with three-quarter length sleeves and two 5 cm bands of reflective tape around the body
D	High-visibility jacket and trouser suit with two 5 cm bands of reflective tape around the body and arms
19.18	A high-visibility vest or jacket does not need to be worn by operatives undertaking resurfacing operations on a road that is not maintained at public expense. Is this correct?
A	No - the minimum level of protection required for anyone working on a private road is a high-visibility vest with two 5 cm bands of reflective tape around the body
В	Yes - the minimum level of protection required for anyone working on a private road is high-visibility trousers with two 5 cm reflective bands around each leg
0	No - the minimum level of protection required for anyone working on a private road is a high-visibility vest with two 5 cm bands of reflective tape around the body, and braces over both shoulders
D	Yes - the minimum level of protection required for anyone working on a private road is high-visibility overalls with one 5 cm band around the body, and two 5 cm reflective bands around each leg

19.19	What is the main reason that personal protective clothing worn during road work operations should always be kept in a clean and usable condition?	19.22	You are planning a road works operation, and the risk assessment indicates that Class 3 clothing will be required. What type of environment would you be operating in?
A	It is a legal requirement for all employees	A	On a B-class road, which requires clothing with intermediary visibility
В	Dirt or damage will reduce its protection against rain	B	On a motorway, which requires clothing with the highest visibility
C	Dirt build up could result in a health condition	C	On a private road, which requires clothing with the lowest visibility
	Dirt or damage will reduce its high-visibility	D	On a dual carriageway, which requires clothing with intermediary visibility
19,20	When carrying out street or road works operations, which one of the following items of personal protective equipment should always be worn?	19.23	You are about to start road works operations on a B class road. Which one of the following documents must determine the appropriate class of high-visibility clothing to be worn for
A	Safety glasses		this work?
B	Hearing defenders	A	The method statement
<u>C</u>	Safety footwear		The permit to work The risk assessment
D	Dust mask		The safe system of work
19.21	Roadworks operations are taking place next to a busy dual carriageway. Which two priorities for hearing protection need to be considered?	19.24	What is the main reason for wearing appropriate high-visibility clothing when conducting street or roadworks operations?
A	The hazard of noise takes priority over the hazard of traffic	A	To reflect harmful UV rays that could cause health conditions
В	A suitable risk assessment is conducted	В	To keep you warm during the autumn and winter months
	Protection is only used at peak traffic intervals	_	To keep you cool during the spring
D	Protection is sufficiently maintained and stored	C	and summer months
E	The hazard of traffic takes priority over the hazard of noise	D	To be clearly seen by colleagues and the travelling public



Further information

Answer pages 246

01 General responsibilities

		THE PARTY OF THE P	
1.01	С	1.29	D
1.02	С	1.30	В
1.03	A, E	1.31	С
1.04	D, E	1.32	С
1.05	D	1.33	D
1.06	Α	1.34	А
1.07	Α	1.35	A, C
1.08	С	1.36	В
1.09	A, D	1.37	C, E
1.10	С	1.38	В
1.11	С	1.39	С
1.12	В	1.40	A, C
1.13	В	1.41	С
1.14	Α	1.42	D
1.15	A	1.43	В
1.16	A, C	1.44	С
1.17	В, Е	1.45	С
1.18	D	1.46	В, С
1.19	D	1.47	D
1.20	Α	1.48	В
1.21	Α	1.49	A
1.22	С	1.50	В
1.23	В	1.51	А
1.24	C, E	1.52	C, E
1.25	В	1.53	С
1.26	С	1.54	В
1.27	В	1.55	В
1.28	В	1.56	В

1.57	С	1.62	С
1.58	С	1.63	А
1.59	A	1.64	А
1.60	С	1.65	В
1.61	A, C		

02 Accident prevention

2.01	С	2.16	A, D
2.02	С	2.17	В
2.03	A, D	2.18	Α
2.04	В	2.19	А
2.05	В	2.20	С
2.06	B, C	2.21	В, D
2.07	Α	2.22	D
2.08	D	2.23	С
2.09	D	2.24	А
2.10	В	2.25	С
2.11	С	2.26	A
2.12	С	2.27	D
2.13	Α	2.28	D
2.14	В	2.29	В
2.15	Α	2.30	D

O3 Construction (Design and Management) Regulations 2015 (CDM)

3.01	А	3.05	С
3.02	А	3.06	А
3.03	D	3.07	А
3.04		3.08	В

3.09	D	3.17	С
3.10	В	3.18	В
3.11	D	3.19	D, E
3.12	A	3.20	С
3.13	B, D	3.21	C
3.14	В	3.22	A, C, D
3.15	С	3.23	В, С
3.16	С	3.24	В

04 Occupational health and welfare

4.01	Α	4.20	С
4.02	Α	4.21	Α
4.03	С	4.22	Α
4.04	Α	4.23	В
4.05	В	4.24	В
4.06	A, E	4.25	С
4.07	С	4.26	В
4.08	С	4.27	A, E
4.09	В	4.28	Α
4.10	Α	4.29	Α
4.11	Α	4.30	В
4.12	В	4.31	C, E
4.13	С	4.32	С
4.14	В, С	4.33	D
4.15	В	4.34	Α
4.16	D	4.35	A
4.17	A	4.36	D
4.18	С	4.37	В
4.19	Α	4.38	D

A, C	4.48	D
В	4.49	D
С	4.50	С
С	4.51	A
В	4.52	A
A	4.53	D
D	4.54	A, C
A, C	4.55	А
С	4.56	D
	B C C B A D	B 4.49 C 4.50 C 4.51 B 4.52 A 4.53 D 4.54 A, C 4.55

05 First aid and emergency procedures

00	Thist aid and chicigonoy	p. occua. cc	
5.01	В	5.19	С
5.02	В	5.20	С
5.03	C	5.21	В, Е
5.04	D	5.22	D
5.05	A, B, F	5.23	В
5.06	С	5.24	D
5.07	В	5.25	С
5.08	D	5.26	В
5.09	D	5.27	В, С, F
5.10	D	5.28	С
5.11	D	5.29	D
5.12	В	5.30	С
5.13	В, С, F	5.31	D
5.14	С	5.32	С
5.15	С	5.33	В
5.16	С	5.34	С
5.17	С	5.35	С
5.18	С	5.36	D

5.37	В	5.39	C
5.38	В	5.40	A, D, F
	The Residence of the Local Designation of the		

06 Personal protective equipment

6.01	A	6.26	A, C
6.02	Α	6.27	D
6.03	Α	6.28	D
6.04	A	6.29	С
6.05	Α	6.30	С
6.06	В	6.31	С
6.07	A	6.32	В
6.08	A, C	6.33	В
6.09	Α	6.34	D
6.10	В	6.35	A
6.11	Α	6.36	D
6.12	Α	6.37	С
6.13	Α	6.38	A, D
6.14	Α	6.39	D
6.15	В	6.40	В
6.16	A, C	6.41	В
6.17	B, E	6.42	С
6.18	A	6.43	А
6.19	Α	6.44	D
6.20	Α	6.45	B, C
6.21	В	6.46	С
6.22	Α	6.47	D
6.23	A, D	6.48	С
6.24	A, D	6.49	D
6.25	Α	6.50	В

6.51	В	6.59	D
6.52	В	6.60	С
6.53	A, C	6.61	В
6.54	С	6.62	A, D
6.55	D	6.63	В
6.56	В	6.64	A
6.57	Α	6.65	, A
6.58	A, D	6.66	A
07	Dust and fumes (Respira	tory hazards)	
7.01	D	7.13	D
7.02	Α	7.14	A
7.03	Α	7.15	D
7.04	А, В	7.16	В
7.05	А, В	7.17	С
7.06	A	7.18	В
7.07	Α	7.19	Α
7.08	В	7.20	Α
7.09	A, D	7.21	В
7.10	D	7.22	В
7.11	D	7.23	A, C
7.12	D	7.24	B, D
08	Noise and vibration		
8.01	A	8.06	Α
8.02	Α	8.07	С
8.03	A, D	8.08	D
8.04	С	8.09	Α
8.05	D	8.10	D

8.11	A	8.26	A, C
8.12	С	8.27	С
8.13	В	8.28	С
8.14	D	8.29	А
8.15	D	8.30	С
8.16	C, E	8.31	А
8.17	В	8.32	А
8.18	В	8.33	D
8.19	D	8,34	В
8.20	A	8.35	А
8.21	D	8.36	А, В
8.22	D	8.37	А
8.23	С	8.38	В
8.24	A	8.39	С
8.25	В	8.40	В
09	Hazardous substances		
9.01	A	9.13	А
9.02	D	9.14	А
9.03	A, D, E	9.15	D
9.04	С	9.16	C, D
9.05	В	9.17	В
9.06	В	9.18	А
9.07	A	9.19	В
9.08		9.20	
-	С	5.20	A, C, D
9.09		9.21	A, C, D
9.09	D	9.21	С

A

9.24

D

9.12

9.25		С	9.49	A, C, E
9.26		D	9.50	С
9.27		D	9.51	В
9.28		Α	9.52	D
9.29		В	9.53	Α
9.30		В	9.54	С
9.31		A, C, E	9.55	B, D
9.32		D	9.56	С
9.33		Α	9.57	A
9.34		D	9.58	D
9.35		Α	9.59	В
9.36		Α	9.60	В
9.37		С	9.61	С
9.38		В	9.62	D
9.39		D	9.63	В
9.40		Α	9.64	D
9.41		B, D	9.65	A
9.42		D	9.66	В
9.43		В	9.67	В
9.44		С	9.68	С
9.45		Α	9.69	Α
9.46		Α	9.70	В
9.47		D	9.71	A, B, D
9.48		В	9.72	С
10	Manual handling			
10.01		Α	10.04	A, B, D, F
10.02		Α	10.05	A
10.03		Α	10.06	A, C, E
-				

10.07	D	10.24	В
10.08	A, C, D, F	10.25	В, С
10.09	D	10.26	В, С
10.10	В	10.27	В
10.11	С	10.28	E, F
10.12	D	10.29	A
10.13	C	10.30	C
10.14	B, C, D	10.31	В
10.15	Α	10.32	A
10.16	A, D, E	10.33	А
10.17	C, E	10.34	В
10.18	В, С, Е	10.35	В
10.19	A, B, D	10.36	B, D
10.20	В	10.37	С
10.21	В	10.38	D, E
10.22	A	10.39	А
10.23	D		

11 Safety signage and symbols

11.01	С	11.05	А
11.02	D	11.06	С
11.03	В	11.07	В
11.04	А	11.08	D

12 Fire prevention and control

12.01	D, E	12.05	С
12.02	. А	12.06	A
12.03	D	12.07	A
12.04	В	12.08	D

12.09	В	12.29	С
12.10	С	12.30	В
12.11	A, C, E	12.31	С
12.12	D	12.32	В
12.13	С	12.33	В
12.14	D	12.34	С
12.15	D	12.35	D
12.16	С	12.36	С
12.17	С	12.37	Α
12.18	D	12.38	D, E
12.19	D	12.39	А
12.20	С	12.40	А
12.21	А	12.41	D
12.22	B, C, D	12.42	В
12.23	D	12.43	Α
12.24	А	12.44	С
12.25	В	12.45	D
12.26	D	12.46	С
12.27	В	12.47	В, С, Е
12.28	A, C, E	12.48	В

13 Electrical safety, tools, equipment, lasers and drones

13.01	A	13.08	В
13.02	В	13.09	A, C, E
13.03	A	13.10	D
13.04	С	13.11	С
13.05	А	13.12	D
13.06	D	13.13	В
13.07	A, D, E	13.14	A

А	13.24	В	13.15
А	13.25	А	13.16
А	13.26	С	13.17
В	13.27	С	13.18
С	13.28	B, C, D	13.19
C, D, E	13.29	А	13.20
В	13.30	В	13.21
А	13.31	D	13.22
С	13.32	A, C, E	13.23

14 Site transport safety and lifting operations

		9 - P	
14.01	C, E	14.19	С
14.02	В	14.20	D
14.03	D	14.21	В
14.04	А	14.22	D
14.05	С	14.23	A
14.06	A, C	14.24	D
14.07	А	14.25	D
14.08	С	14.26	С
14.09	B, D	14.27	C
14.10	В	14.28	В
14.11	В	14.29	В, С
14.12	С	14.30	С
14.13	В	14.31	С
14.14	С	14.32	В
14.15	A, B, E	14.33	A
14.16	В	14.34	В
14.17	B, C	14.35	D
14.18	С	14.36	C, E

14.37	C, E	14.47	A, C
14.38	Α	14.48	С
14.39	D	14.49	D
14.40	В, Е	14.50	D
14.41	Α	14.51	В
14.42	В	14.52	В
14.43	A, C	14.53	D
14.44	B, C	14.54	А
14.45	В	14.55	D
14.46	В		

15 Working at height

10 110111119			
15.01	Α	15.18	С
15.02	A, C, E	15.19	С
15.03	В	15.20	D
15.04	D	15.21	Α
15.05	С	15.22	В
15.06	В	15.23	A, C, E
15.07	В	15.24	Α
15.08	С	15.25	С
15.09	D	15.26	С
15.10	А	15.27	A, B, D
15.11	A, D	15.28	Α
15.12	D	15.29	Α
15.13	В	15.30	С
15.14	В	15.31	С
15.15	D	15.32	С
15.16	С	15.33	В
15.17	В	15.34	С

D	15.63	D	15.35
D	15.64	С	15.36
B, C, D	15.65	Α	15.37
Α	15.66	В	15.38
Α	15.67	С	15.39
В	15.68	D	15.40
С	15.69	С	15.41
В	15.70	В	15.42
D	15.71	Α	15.43
Α	15.72	В	15.44
В, С, Е	15.73	D	15.45
В	15.74	С	15.46
Α	15.75	В	15.47
Α	15.76	В	15.48
D	15.77	С	15.49
D	15.78	D	15.50
D	15.79	Α	15.51
С	15.80	A, C, D	15.52
В	15.81	D	15.53
D	15.82	В	15.54
С	15.83	В	15.55
D	15.84	В	15.56
A, C, D	15.85	С	15.57
А	15.86	В	15.58
В	15.87	B, C, D	15.59
В	15.88	А	15.60
В	15.89	С	15.61
С	15.90	D	15.62

16 Excavations and confined spaces

6.01	В	16.13	D
6.02	D	16.14	В
6.03	А	16.15	С
6.04	В	16.16	В
6.05	В	16.17	A, D, E
6.06	Α	16.18	В, D
6.07	D	16.19	A, D
6.08	C, E	16.20	D
6.09	D	16.21	С
6.10	В	16.22	D
6.11	D	16.23	D
6.12	В	16.24	В

17 Environmental awareness and waste control

17.01	С	17.15	A, C
17.02	B, E	17.16	А
17.03	В	17.17	A, C
17.04	В	17.18	С
17.05	С	17.19	Α
17.06	С	17.20	В
17.07	В	17.21	С
17.08	В	17.22	С
17.09	В	17.23	В
17.10	Α	17.24	В
17.11	В	17.25	C
17.12	D	17.26	В
17.13	С	17.27	D
17.14	В	17.28	В

17.29	A, D
17.30	A, D
17.31	В
17.32	В
17.33	D
17.34	С
17.35	С

17.36	В
17.37	D
17.38	С
17.39	С
17.40	D
17.41	B, E

18 Demolition

10 Demonto			
18.01	В, Е	18.18	D
18.02	В	18.19	В
18.03	В	18.20	Α
18.04	В	18.21	B, E
18.05	В	18.22	С
18.06	Α	18.23	В
18.07	Α	18.24	С
18.08	D	18.25	А
18.09	С	18.26	В
18.10	D	18.27	С
18.11	В	18.28	С
18.12	С	18.29	В
18.13	D	18.30	B, D
18.14	Α	18.31	В
18.15	D	18.32	D
18.16	В	18.33	В
18.17	С		