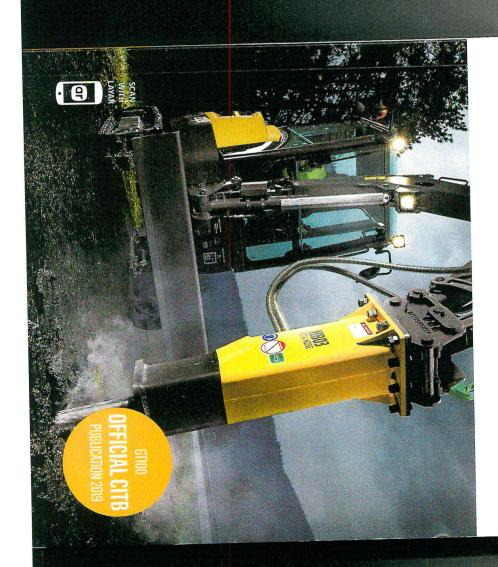




Health, safety and environment test For operatives and specialists



WORKING ENVIRONMENT

General responsibilities

- The Health and Safety at Work etc. Act 1974 contains legal duties for employers
- Visitors and workers must be given a site induction and authorised to enter site.
- Employers must provide information to workers about site rules, welfare facilities and emergency procedures.
- Workers should be provided with clean welfare facilities and information regarding hazards and risks at work
- Everyone on site is responsible for the consideration of neighbours and members of
- Employees should follow a safe system of work agreed with the employer.
- 0 A safe system of work would include information such as the sequence of work, and any hazards associated with the task
- The purpose of a risk assessment is to identify hazards and control risk
- Risk assessments consider the likelihood of a hazard occurring and the seriousness of harm that could occur
- A method statement will inform a worker of the safe way to carry out a task
- If a task feels dangerous or unsafe, stop work and report it immediately,
- **₽** 5 a prohibition notice. What does this The whole site has been issued with
- Continue with site work
- DI Finish the job and go home
- 0 Do not use any power tools
- O Stop work because the site is unsafe

1 22 and Safety Executive (HSE) inspector After watching you work, a Health issues an improvement notice. What

does this mean?

You are not working fast enough

You are not working in a safe way

(V)

Your work has improved since the last visit

0

0 You need to improve the standard of

> 1.03 on your site and are to be interviewed by a Health and Safety Executive You have witnessed a serious accident (HSE) inspector. What should you do?



Ask other workers what you should tell the inspector



Ask your supervisor what you should tell the inspector

exactly what you saw Co-operate and tell the inspector

Not tell the inspector anything, and ask them to talk to your supervisor

1.04

If you notice that a design detail can't be built in the way it has been drawn in the plans, what two things should you do?

You will be asked to 'drag and drop' your answers

1 Leave that detail out altogether

Build it as you think it should be done

Keep quiet as it will mean more work for you

Only make the changes when they are approved in writing

Raise the issue with your supervisor before you start work

8

1.05 When workers arrive on site what is the first thing they should do?

P Walk around the site to inspect the work from the day before

[00] Enter the site by the easiest route and start work

(0) Get their tools out of the store and start work

U they are there Make sure that the site team knows

If a worker fails to report a near miss what could happen?



The company could go out of

business through neglect

The employee could get a large fine

(W

The near miss could be a serious accident next time

(

immediately The site manager will be sacked

U

1.07

You will be asked to 'drag and drop' your answers

You may suffer an injury, affecting your health and wellbeing You will have to work longer hours to earn more money

You won't get the training required to continue working on site

ဂ (10)

You may not be able to work, which would affect your income and family life

You will have worse welfare facilities on site while improvements are made

accidents and ill health at work? What are two possible consequences for employers of not taking measures to prevent

B 1.12

Why is it the employer's legal

responsibility to discuss matters of

1.08

0

You will be asked to 'drag and drop' your answers

P They could be fined or imprisoned

They will damage the environment

0 0 They will have to change the site layout for emergency vehicles They will need to employ more people

m They will lose time and money due to the cost of any accident or ill health

1.09 What does the word hazard mean?

10 emergency procedures on site? understanding the fire and What is the main reason for

1.13

of the following?

include information about which one General site rules would not normally

P

Personal protective equipment (PPE)

A assembly points are in an emergency To know where the fire exits and

Anything that could cause harm

W can be used during an emergency To know what tools and equipment

(0) To help you to get time off work in an emergency

0

Near miss and accident reporting

Site induction procedures

(D)

Names and addresses of workers

To stop anyone leaving site in an emergency

0

machine guard

A type of removable barrier or

0

happening

The likelihood of something

The construction site accident rate

Site manager

(III)

Building inspector

00

On the safe system of work plan

health and safety on site? Who is responsible for managing

If someone is injured on site, where **should** this be recorded?

1.14

In an accident book or record

0 On the site plan

0 In the method of work

Health and Safety Executive (HSE)

Contracts manager

What should all risk assessments identify?

1.15

The site working hours

So that employees do not have any health and safety with employees?

attend any other health and safety

training

So that employees will never have to responsibilities for health and safety

things that will protect their health So that employees are informed of

്ര

Where the first-aid kit is kept

and safety

So that your employer will not have any legal responsibility for

employees' health and safety

W How to report accidents

U The hazards in the work environment

When creating a risk assessment

8 1.16 the severity of harm is multiplied by what?

A The number of workers on site

The likelihood of harm occurring

W

The cost of injury or harm

(0)

The area of the construction site

WORKING ENVIRONMENT

WORKING ENVIRONMENT

1.17

9

Which two topics should be covered in a site induction?

		1	
		ч	
		4	
		¥	
		1	
		-1	

You will be asked to 'drag and drop' your answers

- Site rules
- (1) Holiday entitlement Local amenities
- Local transportation links
- Site emergency procedures

m 0

- 118
- you first arrive on site? about health and safety rules when How would you expect to find out
- 1.20
 - attending a site induction? What is the main reason for

1.23

else to explain

Wait until the end, then ask someone

U

The contractor's supervisor

Employers must provide workers with instructions that meet which

requirement?

To get to know other new employees

P

Downloadable from the internet

W

Written in large print

- W Site rules and hazards will be explained

(£2)

In a letter sent to your home

(0)

By reading the health and safety

During the induction

ി To create the method statements for the site

െ

Available in audio

O Permits to work will be written and

0

In a format each worker understands

1.21

1.19

What is a toolbox talk?

you around

By asking other workers to show

seem out of date as work progresses? rules given in your site induction What should you do if the safety

1.24

A worker finds a way of working that is quicker than the method statement

they have been given. What should

Speak to your supervisor about your concerns

work this way

Inform work colleagues so they can

TO

they can leave early

Get their work done more quickly so

W Nothing, as safety is the site manager's responsibility

(77

A talk that tells you where to

(1)

arrive on site

Your first training session when you

()»

A sales talk given by a tool supplier

(0) Speak to your workmates to see if they have any new rules

ി

more money

Get more work done so they can earn

- 0 Make up your own safety rules to suit
- the changing conditions

0

work for the task

Continue to follow the safe system of

During the site induction you do **not** understand something the presenter says. What should you do?



Who should you speak to if the work of another contractor is affecting your safety?



- Your supervisor

m

The contractor

w

Ask the presenter to explain it again

Guess what the presenter was saying

Attend another site induction

Your workmates

്ര

- What should you do if you cannot
- 1.26 A Make up a better way to do it and method statement? do a job in the way described in the
- [13] Contact the Health and Safety Executive (HSE)
- 0 0 Ask other workers how they think it should be done Do not start work until you have
- talked to your supervisor
- **1**27 helmet they are using is damaged? What should a worker do if the
- Use it but keep checking it
- Put a sticker over the damaged area
- 0 Report it at the end of the day
- 0 Replace it immediately

D

A short training session on a

particular safety topic

WORKING ENVIRONMENT

Accident reporting and recording

- Reporting unsafe conditions is everyone's responsibility on site.
- Reporting near misses will help to prevent them happening again.
- Plant and machinery should only be used by authorised and competent operatives.
- Any accident causing injury must be recorded in an accident book
- All relevant staff should be involved in investigating accidents and near misses.
- **1**2.01 book. What **must** happen to this accident record? details are recorded in the accident You suffer an injury at work and the
- It must be kept in a place where anyone at work can read it
- W company at the end of the job It must be sent to the insurance
- 0 under data protection laws It must be treated as confidential It must be destroyed at the end of the

job, due to confidentiality

- 2.02 What must be done if an operator is
- Alert all other staff on site to driving plant equipment faster than site speed limits?
- be careful

003

Inform a supervisor or manager

- ြ Shout at the driver, telling them to slow down
- Wait until they stop and talk to them

2.03



accidents, which **one** of the following **should** be avoided when driving In order to reduce the risk of vehicles on site?

- Use designated turning areas
- W Implement a one-way system around the site
- (n) Drive-through loading and unloading
- 0 marshaller Reverse without the use of a vehicle
- 2.04 result in you being ordered off site? Which two of the following would
- Losing your road users' driving

- W Being under the influence of alcohol
- 0 Driving downhill with a heavy load
- Driving without using the flashing
- m Being under the influence of drugs

seven days. Which two of the following actions must be taken? You have been injured in an accident at work and, as a result, are absent for more than

2.05

You will be asked to 'drag and drop' your answers

The accident must be recorded in the accident book

- You must pay for any first-aid equipment used to treat your injury Your employer must inform the Health and Safety Executive (HSE)
- The emergency services must be called to find out how the accident happened



- 2.06 If you have a minor accident, who should report it?
- [03] You, if possible Anyone who saw the accident The sub-contractor
- The Health and Safety Executive (HSE)
- 2.07 work. When should you report it? You are injured in an accident at
- The next day before you start work
- Immediately, or as soon as possible
- 0 Only if you have to take time off work

0

The police service

U At the end of the day, before you

Why should you report an accident?



It is a legal requirement

- [13] So that everyone can find out It helps the site find out who caused it what happened
- 2.09 So that your company will be held Who must you report a serious responsible
- **B** accident to? Site security
- **3** Your employer
- The ambulance service

Which two of the following items should be recorded in the accident book?

8 29

What action should be taken if you witness a serious accident on site?



Telephone the local doctor for advice



what happened



0 Say nothing in case you get someone into trouble



Which of the following statements



best describes a near miss?



injury or damage



0 injured and nearly had to go



While working on site you cut one of your fingers. What should you do?



2.12





P Report it and get first aid if necessary







2.13

of carrying out an accident



investigation?





P



Ask your workmates what they think





An incident that nearly resulted in



[13]



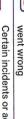


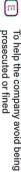
As little as possible because you

don't want to get people into trouble



W went wrong Certain incidents or accidents have





What is the main objective





W



റ



insurance claims To help track the cost of



2.14

you are asked about the accident? it happen. What should you say when A scaffold has collapsed and you saw

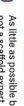


Who you think should be blamed and punished



Exactly what you saw, giving as much detail as possible

[13]



As little as possible because you are not a scaffold expert



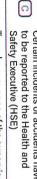
Which **two** of the following are the **main** reasons for reporting accidents,



incidents and near misses?







find out about the accident To make sure none of the supervisors



2.16



Injuries sustained You will be asked to 'drag and drop' your answers



Telephone number



Location of the hospital



m



If someone is injured at work, who should record it in the accident book?

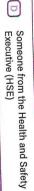


The first aider identified on site











Which of the following does not have



to be recorded in the accident book?







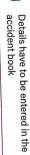




Which of the following is the least important reason for recording all accidents?



It might stop them happening again







0



0

03

All first aiders should have a current, up-to-date first aid at work certificate

3.04

What two things should you do if there is an emergency situation on site?

U

Finish what you are doing

You will be asked to 'drag and drop' your answers

03

- The place to go in the event of an emergency is called an assembly point.
- The location of the emergency assembly point should be identified in a site induction.



assembly point Emergency

3.01

an emergency on site? What should be done in the event of



3.03 what to do in an emergency? Give How should you be informed about two answers,



By asking at the local hospital

D





0

return home

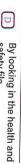
Leave the site by the nearest exit and

CCI

Collect your personal items and leave the site

Follow the site emergency procedure

By reading the site noticeboards



By asking the Health and Safety Executive (HSE)

m

Phone the Health and Safety Executive (HSE) for advice



3.05 What information should be gathered after a near miss

Look for other people who may not know what to do

Go to the designated assembly point Leave the area via the nearest exit

Collect personal items from the







people involved The names of next of kin for the



Where those involved lived at the time of the incident

w



(0)

out at the time

The activities that were being carried

the incident The cost of the project at the time of



3.06 You witness a serious accident on site. What **immediate** action should you take? Give two answers



Sit the injured person up and give injured person

Check if it is safe to approach the

W

Reading the site noticeboards

Attending the site induction emergency telephone numbers? site emergency procedures and Which two of the following will

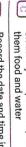
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Looking in the telephone directory

Executive (HSE) website

Guidance from the Health and Safety Guidance from your local job centre 3.02

help you to find out about the



incident book Record the date and time in the



3.07

What should not be in a first-aid kit?













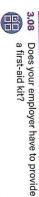
ta



Safety pins



Tablets and medicines







w



U No, there is no legal duty to





D

[22] Ignore the problem as it is always the same

(EG)

Inform your supervisor that someone

has been injured



Move the injured person to a safe place, and then find your supervisor

Inform the person who looks after the first-aid kit

0





w Treat you if you are unconscious

0 authorisation Give you medicines without Give mouth-to-mouth resuscitation



3.11

Evacuation routes should be:



D lit at all times of the day



റ used as assembly points



clear and unobstructed

you are on your own, what should you do first? If you find an injured person and





3.15





Roll them onto their side and bend their legs

W







3.13





<u></u> W Raise the alarm and stay by the inspection chamber on a rope Get someone to lower you into the

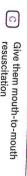
U while you try to rescue the worker Ask someone to find your supervisor inspection chamber, but do not enter

and you are not trained in first aid. What should you do first? Someone is knocked unconscious



(m) Send for medical help

Slap their face to wake them up



Turn them over so that they are lying on their back

Someone has fallen from height and has no feeling in their legs. What should you do?



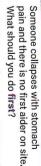
Keep them still until medical help arrives



Raise their legs to see if any feeling comes back

0





3.16







Help them to lie down in the recovery position



If you think someone has broken their leg, what should you do?



Place them on their back

[70] Send for the first aider or get other help



recovery position Place them on their side in the



3.18

If you cut your finger and it won't stop bleeding, what **should** you do?

WORKING ENVIRONMENT



Wrap something around it and carry on working medical help Find a first aider or get other

Tell your colleagues because you may need to rest

you are on site, what should you do first? If there is an emergency while

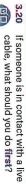
3.19



0 [03] Follow the site emergency procedure

Phone home and then leave the site

Phone the Health and Safety Executive (HSE)





w Pull them away from the cable

Isolate the power and call for help

(n)

0 Dial 999 and ask for an ambulance

0 Size and fit should be considered in the selection of suitable PPE.

Stop work immediately and replace PPE if it gets damaged.

4.01 equipment (PPE) you with personal protective When must your employer provide

Twice a year

(CO If you pay for it

(೧) If it is in the contract

If you need to be protected

4.02 If you have to work outdoors in bad supply you with waterproof clothing? weather, why should your employer

take fewer breaks To keep you warm and dry, so you

(W) which will reduce trips and falls To protect you from the weather,

0 are less likely to catch Weil's disease (leptospirosis) To keep you warm and dry, so you

strains if you are warm and dry as you are less likely to get muscle To protect you from the weather,

> **#** 4.03 Which of the following statements about personal protective equipment (PPE) is not true?

> > 4.06

8

be worn?

You must use it as instructed

D

Impact-rated goggles or full face shield

[10] You must pay for any damage or loss

7

Light eye protection (safety glasses)

(0) You must store it correctly when you are not using it

റ

Reading glasses or sunglasses

to your supervisor You must report any damage or loss

4.04 weather is true? about wearing a safety helmet in hot Which of the following statements

You can modify it to keep your head cool

m You must wear it at all times and in the right way

You must take it off during the hottest part of the day

more comfortable that way You can wear it back-to-front if it is

> £ 6.5 risk of materials flying into your eyes? What should you wear if there is a

> > **6** 4.08

on site?

When is the only time that you do **not** need to wear head protection





Tinted welding goggles

P

If you are self-employed



Laser safety glasses

W

If you are working alone





If you are in a safe area, like the site office







Impact-rated goggles

If you are working in hot weather







Chemical-rated goggles





4.09 you know if you need any extra When you start a new task, how will personal protective equipment (PPE)?





[23] By looking at the risk assessment

By looking at the company webpage

0

By looking at your employer's health and safety policy

Welding goggles



When should you wear safety



footwear on site?



All the time

(II) Only when working inside

<u></u> Until the site starts to look finished

U Only when working at ground level

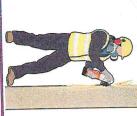
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WORKING ENVIRONMENT

a 4

What is the ${\it main}$ risk to this worker, wearing only these items of personal protective equipment (PPE)?

15



- Dermatitis to skin
- (UI Damage to hearing

च

barrier cream

Only if you cover the gloves with

Only if you put barrier cream on your hands first

0

Square on your head

same standard

- 0 Eye injuries
- 0 Breathing in harmful dust

No, different gloves protect against different types of hazard

4.16

Which item of personal protective equipment (PPE) is helping to protect the worker from dermatitis?

4.13 protective mid-sole protect you from? What will safety footwear with a

£ (B)

When selecting appropriate personal protective equipment (PPE), what is

the most important factor to be taken

into account?

The type of hazarc

Can it be recycled

- A Spillages, which may burn the sole of your foot
- (D) Blisters, which could occur in warm, wet conditions
- 0 better grip than regular shoes Twisting your ankle, as they have

0

The cost of the equipment

U

How long it will last

- Nails or sharp objects, which could puncture the sole of your foot
- ## 4.14 ## 4.14 What condition could be prevented if the correct gloves are worn while

4,17

equipment (PPE) will be marked with Good quality personal protective

which letter or letters?

4.12

be worn under a hard hat in What additional measures can

cold weather?

A baseball cap

(m)

A jumper with a detachable hood

W

Skin disease

0

A woolly hat

(

Vibration white finger

0

A manufacturer's attachment

Raynaud's syndrome

- handling a hazardous substance?
- Arthritis
- 0 (7)
- HSE

0

instruction book Read the manufacturer's

Will all types of glove protect your hands against chemicals? # 4.18 How **should** a safety helmet be worn to get maximum protection from it?

04

- Yes, all gloves are made to the
- D



- Back to front



O

- Pulled forward
- falling out? What should you do if your disposable, foam earplugs keep

4.19

(III) Put rolled-up tissue paper in each ear instead without them

Throw them away and work

- <u></u> Put two earplugs in each ear so that they stay in place
- Stop work until you are shown how to fit them properly
- 4.20 harness and you have **not** used one before, what **should** you do? If you need to wear a full body
- Try to work it out for yourself
- P
- (D) Ask for expert advice and training
- 0 Ask someone wearing a harness to show you what to do



Which of the following figures is wearing the **correct** personal protective equipment (PPE)?









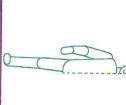


4.22

Where on the body would a worker wear respiratory protective equipment (RPE)?







Environmental awareness and waste control

0

- Everyone is responsible for minimising the amount of waste generated on site.
- Following the site environmental risk assessment will help to prevent pollution on a construction site.
- Segregating waste materials supports recycling and helps to avoid pollution.





Waste skips

- Re-using leftover materials helps to save energy and conserves raw materials.
- Recycling construction materials avoids waste going to landfill

0

- Everyone on site should take responsibility for saving energy and water by turning off plant, equipment and taps when not in use.
- A good way of reducing energy if heating or cooling systems are being used in site accommodation is to keep windows and doors closed.

0

0

- Spill kits should be available to clean up spilt chemicals and oils
- Bats and badgers are classed as protected species, and are protected by law.
- making any changes to them. Many historic buildings are listed and protected by law; permission is required before

•

What should be done with waste concrete and washout water?



Bury it on site, as it will break down over time



(III









This label is shown on the container of a liquid that a worker is using on site. What does it mean?

It can be used to feed plants and fish

It is harmful to the environment

It could cause a drought

(n)





WORKING ENVIRONMENT

5.03 Which two of the following are common causes of water pollution on sites?

05

You will be asked to 'drag and drop' your answers

Fuels being stored incorrectly and too close to drains

Rain water washing material out of skips into surface water drains getting into drainage systems Exhaust gases from mobile plant

Smoking and e-smoking near drainage systems

0

0 [13]

drainage systems Walkways freezing in winter near

m

5.04 of oil? a spill on site, involving just one litre Which one of the following is true of

5.06

helping to save energy on site and reduce harmful emissions? What are two of the best ways of

including generators, when they are Switch off plant and equipment, not in use

It is too small to cause a problem

w

is expensive

The main problem is that oil

heating is on offices and welfare facilities when the Keep windows and doors closed in

W

hand tools so that they can be repaired or replaced Report any defective, non-powered

ြ

0

It will contaminate the ground

It could cause serious air pollution

items of equipment electricity for the offices and small Use a generator rather than mains

Which three statements are reasons why saving energy is important?



5.05

You will be asked to 'drag and drop' your answers

It helps to reduce fuel and energy bills

m It helps to increase energy use on

0 to generate energy It helps to save natural resources used

0 It helps energy companies to charge more for their services

It helps to reduce the impact of climate change caused by burning fossil fuels

m

5.10 Which items are hazardous waste and which are non-hazardous waste?

Broken bricks Fluorescent light tubes

W

Untreated timber off-cuts

0

Oil-based paint

0

5.07 in what? Over ordering materials can result

Accidents

[77] Waste

Dange

Lower costs

5.08 away some waste liquid that has oil in it. What should you do? You are on site and need to throw

Pour it down a drain or sink in the

60 3> Pour it slowly onto the ground and let it soak away welfare facilities

(Pour it into a sealed container and put it into a general waste skip

Ask your supervisor what the

m

多

disposal process is for contaminated

5.09 Which two items are classed as hazardous waste?





Broken bricks



0

Panes of glass Fluorescent

Used spill kits light tubes

Non-hazardous

Hazardous

WORKING ENVIRONMENT

What is the **correct** way to clean up oil that has leaked from machinery onto the ground?



Put the oily soil into the general waste skip



A Wash the oil away with water



0 [03] the oil cannot be seen Mix the soil up with other soil so that and detergent

0

supervisor and then clean up the spill

Stop work, contain the spill, notify the

immediately so they can arrange to Call the Environment agency

Reuse off-cuts (such as half bricks) rather than discarding them Only take or open what you need and return or reseal anything left over Leave bags of cement and plaster out in the rain, unprotected Always take much more than required, just in case you need it

have it cleaned up



or diesel spill on site? What should be done if there is an oil

5.16

Which two actions could help minimise waste?







Use a spill kit to clean it up before the end of the day





Ignore it. Oil or diesel spills do not have serious, long-term effects

> (W)

> > Use new materials at the beginning of each day

You will be asked to 'drag and drop' your answers



container for collection as hazardous waste Put the oily soil into a separate

0



How should hazardous waste be dealt with on site? Give two answers.



(0) [UI]

You will be asked to 'drag and drop' your answers



the following statements is true? Under environmental law, which of

5.13

ITI

Take it to the nearest Local Authority waste tip

Place it in the correctly labelled It can be put in any skip on site Segregate it from other waste



Which of the following is most likely to cause air pollution?



Fuel spillage





w

Only companies can be prosecuted if they do not follow the law

000

Using diesel engines

Mixing all waste in one skip

0

Only employees can be prosecuted if

they do not follow the law

if they do not follow the law

Only directors can be prosecuted

െ Surface run-off



0

Refuelling carefully to avoid spills

Switching off plant and equipment

when it is not in use



U

prosecuted if they do not follow

Companies and employees can be

You will be asked to 'drag and drop' your answers



5.17

What are the two most important reasons why waste should be segregated on site?

The waste will take up less room in a skip

00

It is generally more cost effective to dispose of segregated waste

So that the wastes can be used or recycled more easily

So that the client can check what is being thrown away

To make sure that the labourer has enough work to do

m



Which of the following is bad practice?





6.19 in what? On site, waste should be collected





Segregated skips



C General skips

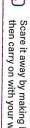


Bays and buckets

WORKING ENVIRONMENT



5.20 You discover a bird on a nest where you need to work. What should you do?



A then carry on with your work Scare it away by making loud noises,

A

the supervisor

Stop excavating the site and contact

Dust and fumes from the site

(0) W moved out of the way before Move it to a place of safety, carry out your work and then put it back starting work Cover it with a sheet so it can be

W

Keep excavating and see how many more there are to find

(U)

Carefully directed site lighting

03

O make others aware and inform your supervisor Protect it from further disturbance,

0

on site will delay the works Hide them. Archaeologists working

0

Noise and vibration from the work

(0)

them should keep them Keep quiet. The person who found

(0)

Lorries and heavy plant

0

5.21

Certain species of plants and animals in England are protected by law. A worker is breaking the law if they do which two things to the plant or animal?

5,26

hours of your site. What is the first

thing you should do?

finished within the normal working activity and realise that it cannot be You are carrying out a noisy work

Carry on so that you can finish doing

You will be asked to 'drag and drop' your answers

5.23 During excavation work, some interesting old coins are found in the loosened soil. What is the most appropriate action?

5.25

cause a nuisance to neighbours of a Which of the following does not building site?



protect the environment? Which of the following would help to

Keeping accurate time sheets

Keeping to the health and safety Arriving on time for work every day

0 possible Saving water and energy wherever

5,29 What is the best way to minimise dust on site?

Covering the whole site

w Using powered tools only

O Reducing use of the wheel-wash

hearing protection before you them what you will be doing Visit the neighbours of the site to tell the job as soon as possible

Ensure you are wearing appropriate

resume work

management so they can look at the

impact of the activity Stop work and inform site w

Dampening using fine water sprays

What type of pollution would

you associate with hand-held

5.30

power tools?

Smoke

(B) Noise

Light

U

U

Using manually operated machinery

D

House prices

0

Take them to the site office

(0)

Infrastucture

W

Avoiding breeding season

w

Cost of living

w

tree sap

Materials are not protected from the

materials

Mould could grow on the stored

Water

the tree roots

Compaction of the soil could damage

The tree branches could get damaged

A

Only working at night

Historical record

8 5.22

protected species?

Which of the following is an effective way to avoid causing harm to

5.24

Preserving old buildings is important

5.27

materials underneath a tree? Why is it bad practice to store heavy

for contributing to an area's what?

#

m 0 0 [17]

Destroy its habitat

Feed it Remove it Photograph it Report it

06 07 08

Health and welfare Manual handling



06

6.02

pedestrians, what two immediate hazards will affect the pedestrians?

You will be asked to 'drag and drop' your answers

If someone is using a petrol cut-off saw (disc cutter) to cut concrete blocks near to

- Breathing in harmful dust can cause life shortening illnesses
- Breathing in construction dust can result in occupational lung diseases, such as asthma and silicosis.
- Respiratory protective equipment (RPE) will only be effective if it fits the wearer's face properly.

(2)

An electric shock Harmful dust

Vibration white finger Contact dermatitis Flying fragments

- Face-fit testing should be carried out as part of the initial selection of RPE
- A face-fit test will ensure that your RPE fits and functions properly

06

- Wearing your RPE will help to prevent you from breathing in harmful dust and fumes.
- An on-tool extraction system is a method of dust control.
- Fumes will build up very quickly in a confined space
- Carbon monoxide is a colourless, odourless, poisonous gas.
- Sparks or naked flames can easily ignite flammable vapours.

•

6.01 A 0 W reduce the dust and wear the correct amount of dust you breathe in needed as dust cannot cause serious Regular breaks will reduce the harm or injury Start the work. No controls are dust is highly dangerous You should not do the work because work that will create dust. What You have been asked to do some personal protective equipment (PPE) Use equipment to eliminate or Work for short periods at a time. should you do?

6.03 6.04 (EE) U 0 (30) to release silica dust when being cut with a rotating blade? Which two materials are most likely Breathing in hazardous dust Exposure to loud noise Slipping and tripping industry? What is the main cause of long-term health issues in the construction Being struck by a vehicle Paving slabs Concrete blocks Plastic pipes Loft insulation Timber 6.06 **6.05** 0 (33) Ø (III) (n) the highest quantities of dust when drilling, cutting, sanding or grinding? exposure to dust when using a Inside a large space Where are you likely to be exposed to Use the tool during wet weather Outside on a still day Inside a small room Stop dust getting into the air power tool? What is the best way to limit Outside on a windy day Stand downwind of any dust Do the work quickly

Which of the following activities does not create harmful silica dust?



Sawing timber or plywood



Breaking up concrete floors and screeds



100

Cutting kerbs, stone, paving slabs, bricks and blocks

90

0



6.09

or sweeping up rubble Chasing out walls and mortar joints



After asbestos, which of the following causes the **most** ill health to





construction workers?



Silica dust

P



W Diesel fumes





0 Wood and MDF dust





U

Resin,

solvent and paint vapours

What is the main risk to this worker, wearing only these items of personal protective



Breathing in harmful dust



Back injury, from poor posture



Goggles misting up, limiting vision

(



Not being able to hear colleagues



What is the main risk to this worker, wearing only these items of personal protective equipment (PPE)?



Breathing in harmful dust





Back injury, from poor posture



Goggles misting up, limiting vision



Not being able to hear colleagues



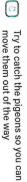
in an area where you are required to work. What should you do? Pigeon droppings and nests are found





Stop work, do not touch anything, and seek advice





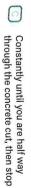




6.13 reduce the level of dust when cutting concrete using a cut-off saw? How should water be used to









8 21

What is the most serious risk to this worker, wearing only these items of personal protective equipment (PPE)?

Breathing in harmful dust



133 Back injury, from poor posture

0

Goggles misting up, limiting vision









to spray water on it? inside a building, why is it advisable Before clearing up some rubble





(3)











What should you do if you find lots



area you are working in? of old bird nests and droppings in an



Sweep them up and put them in a bin liner immediately

(10)



0

then carry on working Check there are no live birds present,

What best describes how workers should treat dust?

6.16

Assume dust is safe if they are working outdoors

W they are working Assume dust is not safe wherever

otherwise Assume dust is safe unless told

Assume dust is safe if they don't feel any ill effects

U

6.17 Which of the following is **not** an immediate health effect of being exposed to paints and resins which have high levels of solvents?

Dermatitis or skin problems Headaches and sickness

W

Muscular and skeletal disorders

0

6.18 used in a deep excavation. Which of Engine driven equipment is being

Drowsiness or poor co-ordination

Gas monitoring alarms the following should be in place? 6.21 Dust

0 [00] Rubber

0

A vehicle marshal

[23]

Additional excavation covers

Wet concrete

Additional stop blocks

6,19 Who can enter a confined space?

Only competent machine drivers who have the correct licence

Anyone who has completed an apprenticeship

CO

Only site managers and supervisors of the company

Anyone who is trained, competent and authorised

1 6.20 equipment (PPE) can protect your Which kind of personal protective

lungs from harmful vapours? Goggles

(2)

Hard hat

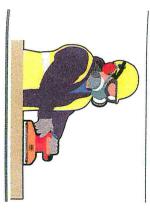
W

Respirator

Ear defenders

Which material or substance is most likely to give off hazardous vapour?

6.24 Which item of personal protective equipment (PPE) is helping to protect the worker from nasal cancer?



6.22 What can cause occupational asthma?

6.25

exposure to asbestos. Which part of Asbestosis is associated with

the body does this disease affect?

Exposure to rat urine whilst working

Hands

Exposure to loud noise on a regular basis

W

Lungs

substance Skin contact with any hazardous

 $\left[\cap \right]$

Feet

or vapours Breathing in hazardous dust, fumes

U

Brain

6.23 Exposure to which of the following is unlikely to result in lung disease?

6.26

exposed to concrete dust for a long

period of time. What are they most A construction worker has been

likely to suffer from?

Asbestos

Silica dust

Strong smells

Bird droppings

U

Shortness of breath

Hearing problems

[70]

Blurred vision

Headache or migraine

6.27 The chances of suffering from lung

cancer are increased by what?

Breathing in dust

(D) Vibration from power tools

Exposure to sun light

0

O Exposure to steam

6.28

When using a power tool to cut or grind materials, why should the dust be collected and not allowed to get into the air?



Most dust can be harmful if breathed in



6

Any effects will be immediately

W

is collected

The tool will go faster if the dust

m

It is unavoidable and harmless

work as quickly as you can Do the job wearing the mask but

Do not start work until you have

the correct respiratory protective

regular breaks outside

clear up the mess To save time and avoid having to



A machine guard is not needed if the dust is collected

The effects will build up over time

What potential disease is this worker unprotected from?

A

Tetanus

w

Nasal cance

n

Dermatitis

Skin cance

6.31

It can help to build up immunity

repeated exposure to small doses of dust? Which one of the following is true of



If you have been given a dust mask to protect you against hazardous fumes, what should you do?





6.36 Which two of the following are basic filter types used in respiratory protective equipment (RPE)?

OCCUPATIONAL HEALTH



oisture filters

-	Þ	
	Z	

Smell or aroma filters

[03]

١	6
	Soun

filters

Dust or particle filters



the first one, in order to increase

the protection

Wear a second dust mask on top of

equipment (RPE)



The seal between an item of respiratory protective equipment (RPE) and a worker's face is **most** likely to be affected by which **two** of the following?







You will be asked to 'drag and drop' your answers

The w	Sunlight	Wearin	Beard	
The wearer's age	ht	Wearing safety goggles	Beard growth	100

6.35 Which two factors determine the

Dust levels

6.30

Hydrogen sulphide is a gas given off

by rotting organic substances. Which

6.32

What should you do if you need

special respiratory protective

equipment (RPE) to handle a chemical but no RPE has been provided?

protective equipment (RPE) to be appropriate type of respiratory



The amount of time since a-

0	9	
RPE or not	Whether the worker wants to v	
	<	- 1

The amount of hazardous substances in the air

exposure		b. but try to work
iTi		1
_	,	

quickly to reduc Get on with the j

> used for a job?

Whether the RPE is made of rubber

hazardous spill

vear

0

It is a harmless natural gas

It is dark brown at room temperature

0

correct RPE and training Do not start work until you have the

naked flame

It can safely be detected by using a

(13)

the sense of smell

w

breaks to reduce exposure Start the work, but take regular

It is dangerous because it can disable

few breaths

It can cause unconsciousness in a

you feel unwell

Sniff the substance to see if it makes

hydrogen sulphide? two statements are true about

The type of hazardous substance

B

6.37 protective equipment (RPE) is true? Which one of the following statements about respiratory

Employers must supply it at cost when it is needed

0	
charge when it is needed	Employers must supply it free of

0 Workers should provide their own

U the employer Workers should share the cost with

As recyclable materials

OI As normal waste products

<u></u> As compostable wastes

your face

Facial hair can affect the seal around

the mask

You may suffer an allergic reaction to

for longer

You will be able to use the same mask

06

As hazardous waste

U

6,39 which one of the following situations? A particle filter is suitable for use in

Presence of gases

A

(1) When dust and fibres are in the air

W

An oxygen-deficient atmosphere

Presence of vapours

O

6,41

Which of the following do you not

need to do to ensure that someone's

correctly Check the mask is being worn

mask works?

m type needed Check the mask is the correct

Check the mask under water to make sure the seals are tight

n

U Check the user has passed a face-fit test while wearing the mask

The seal of your respiratory protective equipment (RPE) can be broken by which $two\ things?$

6.42

You will be asked to 'drag and drop' your answers

-	P	
	Facial hair	1 200

0 Make-up

[03]

Facial scarring

0 A hearing aid

Earrings

What is the most important consideration when wearing respiratory protective equipment

> 6,45 8

> > OCCUPATIONAL HEALTH

respiratory protective equipment carry out repeat face-fit tests for How often is it good practice to

(RPE)?

The weight is correct

(30)

On a regular basis

(D)

On an ad-hoc basis

00 It has a good seal

Being able to smell

(0)

When starting a new shift pattern

When starting work on a different site

0 It is the correct colour

6,46

Respiratory protective equipment (RPE) fit tests **should** be carried out

by whom?

60 It will break easily

It will filter more air

It will get damaged

6,47

6.44

8 happen?

It will not protect you

If your respiratory protective equipment (RPE) is a bad fit, which one of the following is most likely to

W

A

the work

The worker who will carry out

0 A supervisor, in compliance with the law The manager overseeing the work

A competent person in compliance with the law

best ways to control the dust.

Planned work requires the use of a power tool to cut or grind materials. Select the two

You will be asked to 'drag and drop' your answers

Wear a dust mask	Wet cutting	
t mask		

0 Work slowly and carefully

Fit a dust extractor or collector to the machine Keep the area clean and tidy

8

6.48 00

> to keep dust down when cutting? What must you do when using water

as possible

Ensure that there is as much water

Make sure that the water flow is correctly adjusted

Get someone to stand next to you and pour water from a bottle Pour water onto the surface before you start cutting

06

0

6.49 When drilling, cutting, sanding or grinding, what is the **best** way to protect your long-term health from

D wear a dust mask Use dust extraction, or wet cut and

harmful dust?

(7) protective equipment (RPE) Wear any disposable respiratory Wear FFP3-rated respiratory protective equipment (RPE)

U and wear FFP3-rated respiratory protective equipment (RPE) Use dust extraction, or wet cut

6.50 of the water you are using to What should you do if you run out control dust?

Stop and refill the water

to protection Put on additional respiratory

ി Ask everyone to clear the area and then carry on

up afterwards Carry on but get someone to sweep

6.51

are likely to cause the most dust exposure? Which of the following two options

£0 Using hand tools outside

Working with wet or damp materials

Working with dry materials

0

creating dust, what should be monitored?

6.53 dust will be most effective for which one of the following? Using water suppression to reduce

(A) Steel grinding

W Cutting plywood sheets

Using power tools without extraction

Using power tools with extraction

6,52 When working with materials

The level of exposure to the dust

00 The colour of dust created

ി The smell the dust creates

U The direction in which the

7.01

How can excessive noise levels affect your hearing? Give two answers.

0 Disc cutting stee

Pneumatic chiselling of concrete

9 • Noise and vibration

If you have to raise your voice to be understood as a result of noise on site, stop work and raise the problem with your supervisor.

0 Always wear the correct protection in a hearing protection zone.



must be worn Hearing protection

Exposure to vibration is a serious issue as it can result in disabling health conditions that cannot be cured

8

Hand-arm vibration syndrome (HAVS) includes a range of conditions that can lead to permanent damage in the hands and forearms

Regular use of hand-held tools and equipment that vibrates is the main cause of hand-arm vibration syndrome.

Your employer should explain safe methods of use, and give you advice on exposure times for hand-held vibrating tools.

0

133 Hearing improvement Ear infections Temporary hearing loss Permanent hearing loss Dizziness and nausea will be asked to 'drag and drop' your answers

(23)

What are the signs and symptoms of noise-related hearing damage?



Ear infections and regular headaches



Nausea and a skin rash around your ears





6 7.04

noise over a long period of time Can the damage by exposure to



Yes, if you change jobs





Tell no one, as it's not contagious

w

Only inform your friends at work

W

Skin cancer on your hands and arms



Yes, if you have an operation



0

No, the damage is permanent

Difficulty following a conversation, especially against background noise

No, unless medication is used

0

7.03 equipment, what does this mean? your ears after working with noisy If you hear a ringing sound in







7.05 What should an employee do if they think noise at work may have damaged their hearing?







Take time off work, as they are unwell



Nothing, as the damage has already been done





D

working properly Your hearing protection was 0

Your hearing has beer temporarily damaged

to vibration

You have also been subjected



What is the main risk to this worker, wearing only these items of personal protective equipment (PPE)?

6



1 Dermatitis to skir



Damage to hearing



Eye injuries



Breathing in harmful dust

7.07 Your doctor tells you that you have hand-arm vibration syndrome (HAVS), possibly caused through work. What should you do?



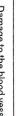
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vibrating tools? caused by using hand-held What health problem can be



Blisters on your fingers and hands



Damage to the blood vessels in your fingers and hands

9

(1)

Inform your supervisor or employer

Tell no one, as HAVS is not reportable





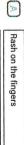
What are three early signs of hand-arm vibration syndrome (HAVS)?



7.08

You will be asked to 'drag and drop' your answers







Blisters on the fingers



Temporary loss of feeling in the fingers













syndrome (HAVS)? Which one of these tools is most likely to cause hand-arm vibration

B 3

if you feel which one of the following:

hand-arm vibration syndrome (HAVS) You are less likely to suffer from

7.09



Handsav

Cold but dry



1 Hammer drill

tta

Cold and wet



Hammer and chisel

0

Warm and dry













7,12 are starting to tingle. What does You have been using a vibrating tool and the ends of your fingers

Helps you to hear better

m You can carry on using the tool but You can carry on using the tool but you must hold it more tightly

6 You need to report your symptoms before they cause a problem

0

Stops you hearing all noise in the workplace

w

Repairs your hearing if it is damaged

you must loosen your grip

9

other vibrating tool, ever again You must not use this tool, or any

acceptable leve

Reduces damaging noise to an

0

7.13

What are two recommended ways to protect your hearing?

H

7.15 protection do? What does wearing hearing

7.17

wear ear defenders but an ear pad is What should you do if you need to

D

ear defenders Take an ear pad from another set of

Put them on and work with them as

Do not work in noisy areas until they are replaced

(m)

missing from one of the shells?

How can you help reduce the risk of hand-arm vibration when using a vibrating tool?

OCCUPATIONAL HEALTH

17.20

Hold the tool more tightly

Use more force on the tool

Hold the tool at arm's length

ା

Do not grip the tool too tightly

hearing protection

Leave them off and work without any

7.18

(8)

in which of the following?

Lung disease

Using a grinder whilst wearing this personal protective equipment (PPE), could result

w

Weil's disease

(III)

Earplugs in your ears

You will be asked to 'drag and drop' your answers

m 0 0

Cotton wool pads over your ears Rolled tissue paper in your ears Soft cloth pads over your ears Ear defenders over your ears

by someone standing how far away? have to raise your voice to be heard Noise levels may be a problem if you

8 716

earplugs, how should you insert If you need to wear disposable foam

them so they protect your hearing

Hearing damage

7.19 8 have no hearing protection? you is using noisy equipment and you What should you do if someone near

the noise supervisor to stop them making Speak to the other person's

doing, as it is disrupting other workers on site Ask them to stop what they are

Carry on with your work, as you are not the person using the noisy equipment

the correct personal protective equipment (PPE) Leave the area until you have

17.21

Eye injuries

How can the effects of hand-arm vibrating tools? vibration be reduced if you are using

Complete the job in one long burst

w Only use one hand at a time on the tool

0 Do not smoke, as it affects blood circulation

and work quickly Hold the tool as tightly as you can

07





0

out and then insert them into your Soak them in water, squeeze them and wedge them half way into your ear Fold them in half, pull on your earlobe them half way into your ear canal

U

pulling the top of your ear up to open

up the ear canal

Roll them up and insert them, while

Do not roll or fold them, and insert

from damage?



What risk does this worker face by using this tool on a regular basis?



7.22





- Dermatitis from repetitive use
- Weil's disease caused by the dust

0

- റ Hand-arm vibration from prolonged use
- Back injury caused by using heavy equipment

0





- Hand-arm vibration syndrome
- w Hand and ventilation system
- (0) Heavy arm vibration system
- 0 Heat and ventilation syndrome
- 7.24 drill for long periods of time? are more likely when using a hammer Which two potential health issues
- D Carpal tunnel syndrome
- [00] Vibration white finger

n

Hepatitis

- U Head injuries
- Speech impairment

000 Health and welfare

If you are under the influence of alcohol, drugs or prescribed medication, it can make the risk of an accident at work. you feel drowsy, slow your reaction times and affect your judgement. This will increase

0 Long working hours or poorly designed shift work schedules can result in fatigue. If you are suffering from fatigue, you are more likely to have an accident at work.

0 Fatigue can result in an increase in errors in the workplace.

Stress is defined as the adverse reaction people have to excessive pressures or demands placed on them.

Stress can affect anyone. A lack of concentration, anger and sleep problems are all

Stress at work can have a negative effect on your mental wellbeing

• If you are concerned about a colleague's mental health, speak to them about it.

attitudes to mental health in the workplace. Talking and listening to people, without judgement, can help to overcome negative

If you feel that you are having mental health issues, you should ask for help as early

Talking about mental health issues is a good way of helping to manage them.



Talking about how you feel is not a sign of weakness

Exposure to ultraviolet radiation from the sun is one of the main causes of skin cancer in the construction industry.

You are less likely to have an accident if your work area is clean and tidy

Adequate lighting and good housekeeping will reduce the risk of slips and trips.

If the welfare facilities on site are not adequate or are dirty, report the issue to your supervisor.

It is good practice to have access to a telephone and a means of raising the alarm if you are working alone

80 in the workplace, and that of others A worker is taking medication which could affect their health and safety What should they do?

Tell their manager

Work harder on site

003

As public information, in accordance

with freedom of information

Confidentially, in accordance with

data protection laws

Go and see their doctor

8

Take regular breaks

to prevent others taking time off Provided to the rest of the workforce

8.02 should they speak about with their after an absence due to illness, what When an employee returns to work employer?

8.05

If your doctor has given you some

is the most important to ask?

(A) The details of the illness to make sure no one else can catch it

Will I fail a drugs test if my employer asks for one?

taking which could affect safety The effects of medication they are

(1)

late for work?

Will it cause me to oversleep and be

visited their doctor before returning Any treatment costs they have to pay to work The number of times they have

8.03 What action should shift workers take at work if they are taking

8,06

If you suspect someone at work has been drinking alcohol, what should

you do?

to help them get back to work

D

earn less money

Will it make me work more slowly and

0

Will it make me unsafe to work or operate machinery?

time-dependent medication, such

D remember when to take their as insulin? Ask colleagues to help them

medication

accommodate this their manager to help plan how to Consult their doctor and inform

Only work shifts after they have taken their required medication

0

O

coffee before they go back to work

Report the situation to your

Get them to drink plenty of strong Ask them to stay away for an hour and then go back to work

they need to take their medication during their shift Not tell their colleagues each time

D

8.04

information relating to an employee containing specific medical How should absence records

8.07

What are the minimum facilities that your hands? must be provided on site for washing

(2) A cold water standpipe and paper towels

A water container, bowl and paper towels

(0) washing facilities There is no need to provide

workforce as long as they do not The records can be shared with the

0 Hot and cold water, soap and a way to dry your hands

medication, which of these questions 8.08 What are two ways of reducing

substances from your hands to the risk of transferring hazardous your mouth?

Using barrier cream for working Washing your hands before eating

0 each use Washing protective gloves before

you are working Wearing protective gloves while

before eating Putting barrier cream on your hands

U

They could carry harmful bacteria that attack the skin

8.09 dirty hands? What should you use to clean very

Paraffin

Thinners

wait 30 minutes and then go back supervisor, as they may be unsafe Get them to eat and drink something 0 White spirit

Soap and water

8.10

nowhere on site to wash your hands; What should you do if there is

OCCUPATIONAL HEALTH

(30) wash them Wait until you get home, then

Ü Go to the local public toilets and use their washbasin

(0) Speak to your supervisor or the site provide washing facilities

Nothing, as the site does not have to

manager about the problem

8.11 Why should you not use white your hands? spirit or other solvents to clean

They could block the pores of the skin

They will remove several layers of skin

0 from the skin They could strip the protective oils

8.12 barrier cream to protect your skin? What is the main issue with using

B It is difficult to wash of

00 It costs too much to use every day

0 substances It can be broken down by some

you dermatitis It can irritate your skin and give

cream to your skin? When should you apply barrier





Before you start work



(10)

When you finish work



(7) As part of first-aid treatment

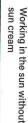
8



What can cause occupational dermatitis?



Using tools that vibrate



[13]





D





Acne









8.16

To help protect outdoor workers from the risk of skin cancer from sun exposure, what should be worn?









[17]









Prolonged exposure to sunlight **could** cause what?

8.20











0

Through your nose when you breathe

[22]

Through an open cut in your skin

D

Through the pores in your skin

land or water) normally enter

your body?

you can catch from contaminated How does tetanus (an infection that





protect you from?

8.21





œ

Legionella

一方機なる





8.19



What is the **most** likely source of hepatitis in this image?





Reducing the risk of cuts and abrasions would require protection for what part of the body?

OCCUPATIONAL HEALTH

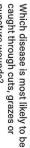
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[23]	
Blood	









8.23

è	







puncture wounds?

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	-
	eta



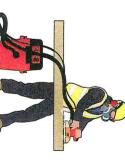
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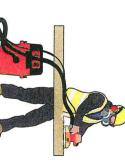


Cancer

Through your mouth when you eat or drink



What is the main risk to this worker, wearing only these items of personal protective equipment (PPE)?



Damage to hearing

W
Ш
Ð
⋽:
=
œ.

Breathing in harmful dust

0



possible cuts or abrasions. Select the two images in which the worker is correctly protecting themselves from

8.24 0

You will be asked to 'drag and drop' your answers



Carrying with no gloves Washing with no gloves































8.27

(leptospirosis)?

In what situation are you most likely to catch Weil's disease

8.25



If you drink water from a standpipe





(III)

If you work fixing showers or baths

Di







0

Squirrels

0

If you work near air-conditioning









If you work near wet ground, waterways or sewers



8.26

If your doctor says that you contracted Weil's disease (leptospirosis) on site, why do you need to tell your employer?

















0

control to remove rats on site Your employer will need to call pest 0

The site on which you contracted it will have to be closed down

to

It must be reported to the Health and Safety Executive (HSE)

(tp

Hay fever

Your employer has to warn your colleagues not to go near you

8.29



They will be able to work faster as they will have lots of energy



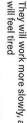
CO















What type of work is **most** likely to result in fatigue?

















Being satisfied with your job can lead

Feeling	
less s	
stressed	
at	
work	





Feeling less happy at work



Fatigue could affect work rates of a worker. What does this mean?



Which one of the following is most likely to cause stress at work?

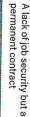




Job satisfaction but fear of redundancy

	1
Job security and a permanent	A lack of job security and fear of redundancy







8.33











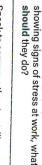






8.34

8





D



ir problems	Tell the rest of the team about

0



8.38

of what?





Mental health issues or stress



(m)

Hand arm vibration syndrome



(0)

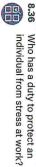
Repetitive strain injury and back pain



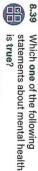
O

Skin problems such as dermatitis















0

The local authority

The employer

[17]

The government

The union



think and remember things

statements is true?

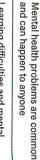
8.37

What is the organisation

'The Samaritans'?







(10)

A political party which supports looking after vulnerable people

(CD)

(7)

financial and legal support A trade union organisation offering

training to young vulnerable people A charity offering construction

0

among construction workers

Mental health problems are rare



Loss of appetite, fatigue and tearfulness are common symptoms 8.41

Which one of the following is good advice for helping to cope with stress?

8.44

MIND is a charity that does what?



Get enough rest

A

empower anyone experiencing a

Provides advice and support to





[00]

construction workers Provides housing for retired mental health problem



(1)

their IQ

intelligent and want to improve

Represents people who are very





0

safety in the work place Controls and monitors health and



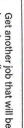


What sort of rest area should your

employer provide on site?

8,42





less demanding



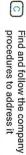
[00]

A covered area, chairs, and a way to boil water and heat food

A

A canteen serving food, drinks and cold sandwiches





0

A covered area with some



0

rest areas, as long as rest breaks Employers don't have to provide comfortable chairs and running water

are provided







Which one of the following must be







(tt)
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y wate

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ransport		
nome		

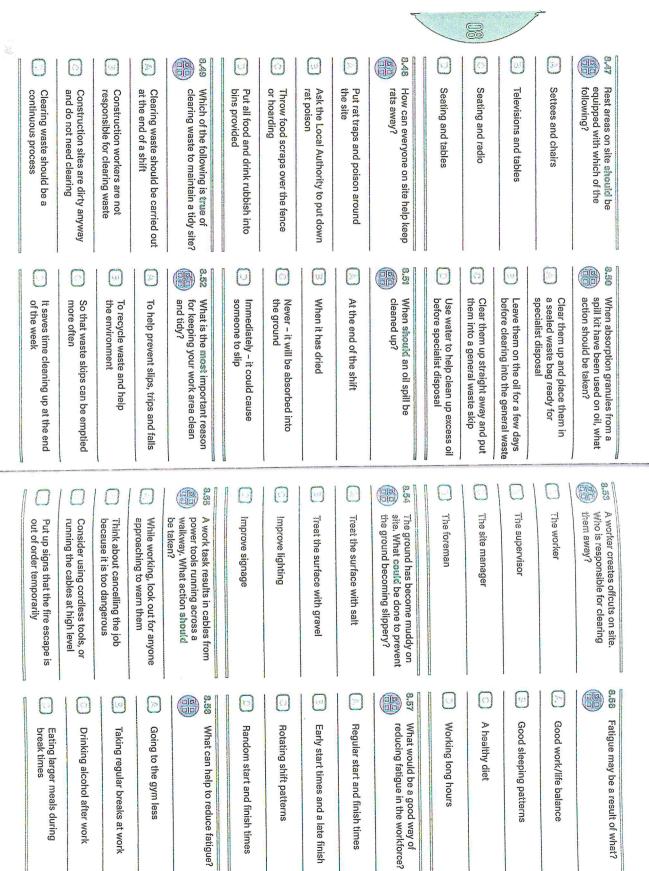
O Breakfas:

They always take a while to develop

8

8.46 provided on site? Snacks œ,

OCCUPATIONAL MEALTH



8.59



When they have finished work and they are away from the workplace



indicator of stress? Which of the following can be an





28,00 When might people suffering with mental health issues need help



When their site supervisor or

manager says so



60

OCCUPATIONAL MEALTH

A worker with a full UK driving



trained on. What should the worker do? a machine they have never been licence has been asked to move



20

have a full UK driver's licence They can move the machine as they Move the machine as long as there is

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Ö	2002	ı
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move it	Ÿ	
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no one else near it

a vehicle marshaller Move the machine as long as there is

U



Inability to deal with usual workload



They will regularly need help to avoid them having a panic attack

 $U_{\!p}$ to once a week to take some of the strain off them



it causes an accident

Only after the stress level gets so bad

In about six months, if the issue is still

causing them stress

symptoms of stress

As soon as they realise they have





which help is needed

As and when a situation arises in









60

000

What is the best way for a worker to avoid becoming stressed because of an overload of work?

Speak openly and regularly with

(1)

Paralysis and halitosis

their manager or employer

about workloads

Put up with the extra work but make

133

Hand arm vibration syndrome

sure overtime is paid







90,00

Lone workers are most a risk

















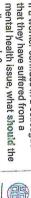












8,0

feeling stressed at work?

What is one sign that employees are

8.84

If a worker confides in a colleague

that they have suffered from a

Dermatitis, skin irritation

colleague do?

0

Only do what is manageable because someone else will pick up the extra

0

Depression and anxiety

Make sure they take medication before going to work

8.87 Who should drive company vehicles?

-		-	-		
f	É	1	É	1	1
(Ē	j	Ī	ij	7

Anyone with a learner driver permit



Let other colleagues know, so they can avoid working with them

Any employee who is competent and authorised ite manager

1	
 or supervisor	Any construction s

6

Long-term staff retention rates

first aider

Inform the site supervisor and

High staff turnover rates

603

Fewer accidents on site

130

work colleague

Treat them as they would any other

Increased productivity on site

Any junior apprentice workers

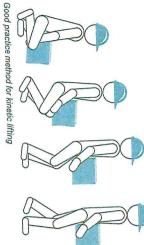
Do their work for them because they

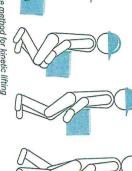
might not be able to cope

gined and

09 Manual handling

- Using a wheelbarrow or other lifting aids to move heavy loads is classed as manual handling but they help to reduce the risk of personal injury.
- Workers should be trained in safe lifting techniques before manual handling or lifting.
- Adopting safe manual handling techniques will help to protect your back and reduce the risk of injury in the workplace.
- The manual handling acronym T.I.L.E. stands for Task, Individual, Load, Environment.





9.01

handling but an old injury means that you have a weak back. What should Your new job involves some manual





0

supervisor about your back

if it gets injured again Tell your supervisor about your back

> 9.02 be too heavy for you. You cannot You have to move a load that might is no-one to help you. What should divide it into smaller parts and there



you do?

Lift and move the load quickly to avoid injury

n safe way of doing it Do not move the load until you have a

have not been trained to use it Get a forklift truck, even though you

9.05



0

Your ability to carry the load safely

9.03

front of you. What should you do? but it is so big that you cannot see in You need to lift a load that is not heavy,

Get someone to walk next to you and give directions

Ask someone to help carry the load so that you can both see ahead

and tell others to get out of the way Get someone to walk in front of you

0

large that anyone in your way is sure Move the load on your own. It is so

9,04 carry a load down a steep slope? What should you do if you need to



TO the load safely Assess whether you can still carry

Walk backwards down the slope to help you balance

(1)

Put the load down and let gravity move it down the slope

What are two risks of carrying a load



The route you take could be slippery

You will need to work more quickly to warm up

The load will feel lighter due to the cold conditions

will be reduced

9.06

told how to lift a heavy load but you think there is a better way to do it? What should you do if you have been

OCCUPATIONAL HEALTH

Discuss your idea with your supervisor before lifting

Ignore what you have been told and do it your way Forget your idea and do it the way you have been told

W

way you should do it Ask your workmates to decide which

9.07 twist or turn your body when you lift and place a load? What does it mean if you have to

(B) You must wear a back brace in this situation You will be able to lift the same The weight you can lift safely will be less than usual weight as usual

The weight you can lift safely will be more than usual

If you need to reach above your head

9,08 floor, which of these is not true? to place a load or lower a load to the

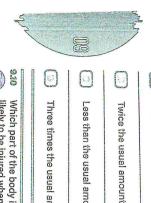
The load will be more difficult

to to control You can safely handle more weight

than usual

It will be more difficult to keep your

0 You will put extra stress on your arms and your back back straight



If you have to move a load while you are sitting down, how much can you lift safely?

9,09

The usual amount

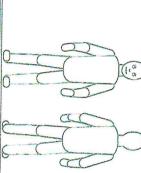












What is the outcome of wearing a



heavy loads?

1101

back support belt when lifting?

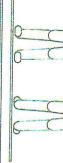


You can safely lift more than usual

You could face the same risk of injury



damage it You will crush your backbone and You can lift any load without being injured



Which three of the following factors must you think about to lift a load safely?

9:33

You will be asked to 'drag and drop' your answers

(3)	
Its size and shape	Its weight

- 0 What the value of it is
- How to grip or hold it firmly

Whether the contents are insured

3



Which part of the body is most likely to be injured when lifting heavy loads?

9.34

What two things are important for the use of manual handling lifting aids?

(1)

The user must hold a CSCS card

You will be asked to 'drag and drop' your answers

The lifting aid can only be used outside

9.77 (DEC)



The lifting aid must be designed for the task



Lifting aids must not be more than six months old



Users must be trained in the correct use of the lifting aid



You will be asked to 'drag and drop' your answers

You need to move a load that might be too heavy for you. What three methods could

П
\vee

60	200
Drag the load to avoid lifting it	Ask someone to help you

Use an aid, such as a trolley or wheelbarrow

Divide the load into smaller loads if possible

lest the load's wordht by picking it lin	
--	--





9.16



What must all workers do under the regulations for manual handling?



If you need to move a load that is heavier on one side than the other,





how should you pick it up?



With the heavy side away from you

193



With the heavy side on your

Lift any size of load once the risk assessment has been done

Make a list of all the heavy things they have to carry

Wear back-support belts when lifting things at work



910

Which of the following is the sess method to help minimise the risk of injury when moving loads on site?



If you are required to lift a heavy load, what must your employer do?





Use lifting aids wherever possible



on site



Ask a trained person to carry the load











Make the area flatter before performing the task

60





Make sure that a supervisor is there to advise while you lift

Nothing. Lifting loads is a part of your job





919



A wheel comes off a trolley you are using to move a heavy load a long distance. What should you do?



9.22

Which one of the following could cause back and musculoskeletal problems for a worker?





Reducing the maximum lifting weight Good planning to reduce lifting heavy loads



Ask someone to help you pull the trolley for the rest of the journey

Find another way to move the load and complete the journey

Drag the trolley on your own for the rest of the journey

the journey

Carry the load for the rest of

9.20

Who should be involved in planning the safe system of work for your

> whenever possible Using machines for lifting operations



Fire prevention and control

<u>=</u>2 12

Electrical safety, tools and equipment

Safety signs

78 81 86

The Health and Safety Executive (HSE)

You and your supervisor or employer

Your supervisor or employer

You and your colleagues

manual handling?



















































Safe condition signs - green and white

-1 ©



















Mandatory signs - must do - blue and white

shoes must be worn

Safety harnes must be worn













First aid









































Warning signs - yellow and black





















SAFETY

Emergency procedures should be in place before any work begins, explained in the site

induction and not changed without notice.

The prevention and control

Everyone on site should be aware of the emergency procedures, as these help to

control dangerous situations

A fire assembly point is where people must go when the fire alarm sounds.

Emergency escape routes should be kept clear and unobstructed at all times

Hot-work permits authorise tasks to be carried out safely, under strictly controlled

Hot-work permits allow workers to carry out work that could start a fire, such as cutting

steel with an angle grinder or soldering pipework in a central heating system.

Liquefied petroleum gas (LPG) is colourless, has a distinctive smell and is highly

flammable.

back to the source.

Which three of the following should be labelled with this sign?

You will be asked to 'drag and drop' your answers

Refuelling should only be carried out by authorised people, when the equipment is

turned off and cooled down for safety.

If a cylinder of LPG is leaking, turn the supply off immediately, if it is safe to do so.

Fuel should always be dispensed using the correct nozzle and stored in the designated

fuel store when not being used.

A leaking LPG cylinder can catch fire at some distance from the original leak and flash

How should a container, or any residue, be disposed of if it has this sign on the label or packaging?

Leave it somewhere for other people to deal with

Put it in any type of skip or bin

If it is a liquid and less than one litre you can pour it down a drain

Follow specific instructions on the label and in the work instructions

What are two common fire risks on construction sites?

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You will be asked to 'drag and drop'
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answers
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230 volt power tools Uncontrolled hot works 110 volt extension reels	Timber racks
ncontrolled hot works	30 volt power tools
10 volt extension reels	Uncontrolled hot works
	110 volt extension reels

000

Poor housekeeping and build up of waste

which emergency procedures should be explained in the site induction?

Give three answers

How to raise the alarm in case of an emergency

You will be asked to 'drag and drop' your answers

Where to go if the fire alarm is activated

B 11.03 What must be checked before working in a corridor that is a fire escape route?

If the tools being used are

B 5

A large fire has been reported. You have not been trained to use fire extinguishers. What should you do?

Leave work for the day

Go straight to the assembly point

Report to the site office and then go home

That any tools and equipment do not block the route

That fire escape signs are removed before the work starts

If the doors into the corridor

spark-proof

are locked

Put all of your tools away and then go to the assembly point

11.04

If you discover a fire, what is the first

thing that you should do?

How to avoid leaving site in case it's a false alarm

What to do if someone is injured on site

an emergency

Where to go to leave valuables in

fire warden? interact with the designated

11.07

Follow the instructions given by the fire warden

Ignore the fire warden and follow your colleagues

Follow the site manager as they will know their way around the site

Ignore the fire warden and the site manager

If a fire occurs, how should you

What additional rules might a person working alone be asked to follow?

1.08

Carry two sets of personal protective equipment (PPE)

Complete an additional time sheet

Never speak to the general public

Make regular radio or mobile phone contact

If your job needs a hot-work permit, what t_{wo} things would you expect to have to do?

11.09

You will be asked to 'drag and drop' your answers

Check for signs of fire when you Know how to refill fire extinguishers Write a site evacuation plan

Have a fire extinguisher close to the work stop work

Finish what you are doing

Try to put out the fire

Put your tools away

Raise the alarm

Know where all the fire extinguishers are kept on site



N

Electrical safety, tools and equipment

- Workers must be trained and competent before operating power tools.
- Cartridge-operated tools operate like a gun and can be dangerous in inexperienced
- The main function of guards on cutting and grinding machines is to stop fragments flying into the air and to prevent the operator coming into contact with the blade or wheel.
- The recommended maximum voltage for construction sites is 110 volt with a yellow connector
- Residual current devices (RCDs) should be fitted between the plug of a 230 volt tool and the supply socket
- RCDs work by cutting the power quickly if there is a fault, and they should be mechanical (trip) tested before each use

cable but the cable has bare wires You need to work near an electric

- What should you do?
- Quickly touch the cable to see if it
- Tell your supervisor and keep well away from the cable
- you can start work Push the cable out of the way so that Check there are no sparks coming

from the cable and then start work

tool?

- 8 You are using a generator to power some lighting when a lamp blows. You have a spare lamp. What sh
- Carry on working in the dark
- Replace the lamp without disconnecting the generator
- Wait for a fully qualified electrician with a NICEIC card
- Disconnect the lighting from the generator before replacing the lamp
- What are the two main visual inspections you should carry out before using a power

What else must you check?

You will be asked to 'drag and drop' your answers

- That it is inspected before you use it
- That it is inspected at the start of
- That it was bought from a builders' merchant

Check switches, triggers and make sure the guards are adjusted and work correctly Check the power lead, plug and casing are in good condition Make sure the manufacturer's label hasn't come off Check it is marked with a security stamp Make sure the carry case isn't broken

What is best practice when using a power tool with a rotating blade?



- Adjust the guard to expose the maximum amount of blade
- clearly see the blade Remove the guard so that you can
- gloves to protect your hands Remove the guard but wear leather
- Adjust the guard to expose just enough blade to let you do the job
- adjusting an electric hand tool? What should be done before



Switch it off but leave the plug in the socket



- Switch it off and remove the plug from the socket
- hand tool yourself You should never adjust an electric

You have been asked to use a hand that it is the right tool for the job. tool or power tool on site. You know

- That it was made in the UK
- each week

12.07

store batteries loose in a tool bag? Why is it considered poor practice to

- You might forget to charge them
- They give off a poisonous gas in a confined space

If the terminals short out, they could

cause a fire

- The tool bag will be heavy and could damage your back



When is it safe to work close to an overhead power line?



- If you use a wooden ladder for access
- If it is not raining whilst you
- than 30 seconds If you do not touch the line for more
- **B** 12,09 missing from a power tool? What should you do if the guard is
- Try to make another guard
- Use the tool but try to work quickly
- Use the tool but work carefully and slowly
- guard has been fitted Do not use the tool until a proper

	drivers can see it	electric shock		cuts out	
	Wrap the cable in yellow tape so that	They will not give you a serious		Run the tool at ton speed to see if it)
	Put up a sign that says 'ramp ahead'	serviced	6	Use a hand-held RCD test meter	(a)
	Cover the cable with scaffold boards	They do not need to be tested or			
	Cover the cable with a protective ramp	They will not give you hand-arm vibration		Press the test button on the RCD	(E)
	Run the cable at head height		10	Switch the tool on and off	
asked to 'drag and drop' your answers	You will be asked to 'dra	They are cheaper to run		working?	
l to run an electrical cable across an area	12.18 What two things should you do if you need to run an electrical cable across an area used by vehicles?	What is the main advantage of using battery-powered tools rather than electrical ones?	12.15	Which method is used to check if a residual current device (RCD) connected to a power tool is	12.12
			William Charles		
er	Run cables and leads above head height and over the top of doorways and walkways	They are safer		It quickly cuts off the power if there is a fault	0
	Tie any excess cables and leads up into the smallest coil possible	They are more powerful	0	It makes the tool run at a safe speed	0
re	Make sure your cables have not been used before				
	(6) Keep trailing cables and leads close to the wall	They are quieter	(70)	It lowers the voltage automatically	[19]
	Only use the thinner 230 volt extension cables	They are cheaper to run	3	It saves energy and lowers costs	A
sked to 'drag and drop' your answers	You will be asked to 'drag				
to reduce trips and injuries caused by untidy leads and	12.17 What two things should you do to reduce tries extension cables?	Why are battery-powered tools preferred over 110 volt tools in a construction environment?	B 1214	Why should a residual current device (RCD) be used with 230 volt tools?	12.11
	b It moves faster along the capies	device (RCD)	0	Switch off the power and look for signs of damage	9
		The post-oble reciding current			
	lt is safer for the environment	Use a generator which has been serviced	(h)	Switch the power off and on a few times	
	B It is less likely to kill you	Put up safety screens around you		Pull the electric cable to see if it is loose	
	lt is cheaper	Wear rubber boots and gloves	2	Shake it to see if it will start again	S
	Why do building sites use a 110 volt electricity supply instead of a 230 volt supply?	You need to use a 230 volt item of equipment. How should you protect yourself from an electric shock?	12.13	What should you do if the electrical equipment you are using cuts out?	12.10 V

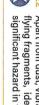
12.19 What two things should you do if you need to use an extension cable?

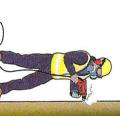
You will be asked to 'drag and drop' your answers

- Uncoil the whole cable
- Only uncoil the length of cable you need Clean the cable with a damp cloth
- for damage Check the whole cable and connectors
- Only check the part of the cable you need for damage
- What is the best way to protect an extension cable and also reduce trip
- hazards?

Cover the cable with yellow tape







significant hazard in this image Apart from dust, vibration, noise and flying fragments, identify another



What should you do if the head on

your hammer comes loose?





- Find another heavy tool to use instead of the hammer
- out of the way Tell the other people near you to keep
- Keep using it but be aware that the head could come off at any time

showing in the cut and then use the cable

Check the copper wires aren't

Report the fault and make sure that no one else uses the cable

Put electrical tape around the damaged part

Put a bigger fuse in the cable plug

Which item of equipment would not require portable appliance testing (PAT)?

12.27

equipment for damage?

When do you need to check tools and



110 volt transformer

Every day



Hammer and bolster

Once a week



At least once a year



110 volt extension lead





Each time before use



Plug-in breaker



12.28

If a power tool has a portable

what information should be included appliance testing (PAT) label on it,

on the label?

No, it is not necessary to check such tools

When the tool was made

When the tool was last tested

need to be inspected?

- Only if someone else has borrowed the tools
- Yes, the tools should be checked each time they are used
- Only if the tools have not been used for a few weeks



B 22

cable has a cut in its outer cover? What should you do if an extension

12.23

Cover the cable with pieces of wood

Run the cable by the shortest route

Run the cable above head height



12,29

Which item of equipment would

not require portable appliance

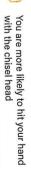
Who tested the tool before it left the factory

The tool's earth-loop impedance

testing (PAT)?



using a chisel or bolster with a mushroomed head? What is the main danger of



It will shatter and send fragments

flying into the air

- The hammer could slip off the head of the bolster or chisel
- putting a strain on your wrist The shaft of the chisel will bend



110 volt transformer



110 volt extension lead

Battery-powered rechargeable drill



Plug in portable halogen light







- Site transport and lifting operations
- Hazardous substances

Working at height
Excavations and confined spaces



96 103 115 119

6 Site transport and lifting operations

- People being struck by moving plant is one of the most common causes of injury and death on construction sites
- Well organised sites will have segregated vehicle and pedestrian routes
- Vehicle marshals should be used to control, and ensure, safe vehicle movements
- You must be trained, competent and authorised to operate or signal plant on any site.
- Loading and storage areas on site should be located away from main pedestrian routes
- Poor ground conditions, excessive speed and poorly distributed loads will increase the risk of a vehicle overturning
- One of the most common accidents involving dumpers is overturning
- You should be provided with information about site traffic rules in your site induction.

13.03

When is a site vehicle most likely to



- path. What should you do? Help the driver to reverse
- [34] injure pedestrians? When it is reversing
- (iii While digging out footings
- 6 While tipping into an excavation
- (b) As it is lifting materials onto scaffolds
- 13.04 Why should you not walk behind a lorry when it is reversing?

13.02

What should you do if you need

to walk past someone operating a

mobile crane?

behind the reversing crane

Start to run so that you can pass

Run to get past the crane quickly

[17]

crane operator

Try to catch the attention of the

റ

the crane

Wait or find another way around

Pass close to the front of the crane

- P Most lorries are not fitted with mirrors
- izi The driver is unlikely to know you are there
- 0 Most lorry drivers aren't very good at reversing

6

clear of the crane

Take another route so that you stay

past it in time You will need to run, not walk, to get

200

do next and squeeze past Guess what the crane operator will

13.05

The quickest way to your work area is through a contractor's vehicle compound. Which way should you go?



- Around the compound if vehicles are moving
- Straight through the compound if no-one is looking
- Straight through the compound if no vehicles appear to be moving
- 13.06 When is site transport allowed to
- drive along a pedestrian route?
- During meal breaks
- If it is the shortest route available
- [7] Only if the vehicle has a flashing yellow light

Only if necessary and if al

- 13.07 17.4 When you walk across the site, what pedestrians are excluded
- is the best way to avoid an accident with mobile plant?
- Wear hi-vis clothing

Ride on the plan

- Keep to the designated pedestrian
- Get the attention of the driver before you get too close

- 13.08 crane. The crane is operating near a You need to walk past a 360° mobile wall. What is the main danger?
- The crane could crash into the wall
- You could get whole-body vibration
- ြ You could be crushed if you walk between the crane and the wall from the crane
- Your hearing could be damaged by high noise levels from the crane
- 13.09 A forklift truck is blocking the route materials onto a scaffold. What you need to take on site. It is lifting should you do?
- Start to run so that you are not under the load for very long walk under a raised load Wait or take another route, but never
- (n) 6 walk under the raised load Catch the driver's attention and then Only walk under the raised load if you

are wearing a safety helmet

- 13.10 Which action should a worker take if they see mobile plant using a route
- Nothing, the driver will know what they are doing intended only for pedestrians?
- زريا Report this to their supervisor
- (0) Have a word with the operator at the end of the day
- Just be careful in that area

13.11 is true? Workers are on foot close to moving plant. Which one of the following







(III)

Keep out of its way and report it



(0)

Try to catch the dumper and speak to the driver



to speed

Nothing, as dumpers are allowed



13.15

13.12





(m)

vibrations of the moving machinery Existing building collapse from moving machinery and being crushed

Pedestrians walking too close to

with the movement of plant and machinery around site?

What is the main hazard associated







[17]

the movement of the machine

Drivers getting motion sickness from

0

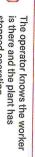
poisoned by the exhaust fumes Members of the public being

13.13 to speak to someone operating In which one of the following situations is it safer for a worker

13.16

230

What is the meaning of this sign?



Pedestrian walkway only

mobile plant?



0

No pedestrian access



O

Traffic approaching from each direction

plant is moving slowly

The worker is wearing PPE and the

Go slow

1

13.14 What should you do if you see a dumper being driven too fast?



Report it to the police

13.17 When moving plant or machinery around site, what should the operator look out for?





Driving with the hand-brake on

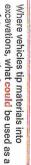




0

































Why should engines be turned off before leaving a site vehicle? Select two answers.

Leaving the engine running is a waste of fuel and is therefore a waste of construction budget

You will be asked to 'drag and drop' your answers

Members of the public are likely to jump into the vehicle and steal it

The sound of the engine may give other workers a headache if left on for too long

Drivers may accidentally operate levers when climbing into or out of the vehicle

Construction machines are not designed to be constantly left running

13.20



If there are blind spots while using plant but work needs to continue, what actions should be taken?



Use the existing mirrors on the plant

Request the plant be fitted with CCTV cameras

of work Use a vehicle marshal for this type

Work with a slinger

ij

one before, What should you do? dumper truck but you have not driven Your supervisor asks you to drive a

13.21

Ask a trained driver how to operate it safely

Watch other dumpers to see how they are operated

Operate the dumper in an open area in case you make a mistake

0

trained and so cannot operate it Tell your supervisor that you are not

13,22

Which of the following is a reversing a vehicle? recognised control measure when



Turning the site radio off



6 Turning on all the vehicle lights



a moving forklift truck. What should you do? You think a load is about to fall from Standing on the back to direct it

















Only if it is designed to carry passengers and has a designated

13.25



You see a lorry parking and it has a flat tyre. Why should you tell the driver?



More fuel will be used by the lorry



þj





Ō







An excavator has just stopped work. Liquid is dripping and forming a small pool under the back of the machine. What could this mean?

13.29

What is needed before supervising

any lift using a crane?



(D)

crane driver

A mobile phone to talk to the



(ui

as competent

Full training and being assessed

The machine is hot so the diesel has expanded and overflowed

hire company

Written instructions from the crane

U Someone put too much diesel into the machine before it started work

0

what to do

Nothing. The crane driver will tell you



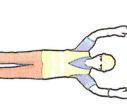
A mobile crane is lifting a load but the should you do? load is about to hit something. What



Go and tell the crane driver



0 Do nothing and assume that everything is under control



13.28 Which signal is being shown in this image?



Danger, emergency stop





Turn right or left







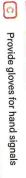
Which action will help to keep signallers safe?



they have good vision Provide yearly eye tests to confirm



tu









Which of the following is a way of

ensuring that a slinger or signaller is

trained and competent?



By trusting them when they say they are



<u>a</u> 0 If they are operating in a one-way If they lose sight of their vehicle

By having them swear an affidavit

By making a handshake agreement

By asking for evidence to be produced



When signallers are used, who should they be in contact with at all



The machine operator



The site manager



0

Their supervisor

Pedestrians



13.34 What is the most important should know before directing information a vehicle marshaller









The value of the materials, as they



To reduce the risk of overturning be parked? and accidents when not in use, how should earth moving vehicles



the same way With their buckets and blades facing



opposite directions

(3)



With their buckets and blades raised





With the buckets and blades facing

Where risk of overturning is

0



significant, what should vehicles be fitted with?





Extra strength brakes





Heavy duty graded tyres



A winch and pulley system



rear tipping lorries not be used for









When a competent signaller is supervising



During redistribution of the load









Roll-over protective structures (ROPS)

iū





To prevent over-turning, when should



tipping operations?



When on firm, level ground













Fragile roof

Safe access and a safe working platform should be provided for all work on fragile roofs

0 One of the leading causes of injury on construction sites is as a result of workers being struck by falling objects.

trained and you are authorised to do so Do not attempt to erect, alter or dismantle a mobile access tower unless you have been

Make sure that there are no people, tools or equipment on a mobile access tower before you attempt to move it.

The erection, alteration, inspection and dismantling of scaffolding should only be carried out by trained and authorised persons

0 Personal fall-arrest equipment is designed to minimise the consequences if a fall occurs, and will only protect an individual worker.





HIGH RISK ACTIVITIES

Work at height is defined as work at any height where a person could fall and

Every year falls from height kill more construction workers than any other type of accident.

 Work at height should be avoided where possible

0

0

0

If you are involved in work at height, your employer should ensure that you have sufficient information, instruction and equipment so that you can work safely.

All equipment for working at height should be inspected before use.

There should always be a rescue plan if people are working at height.

0

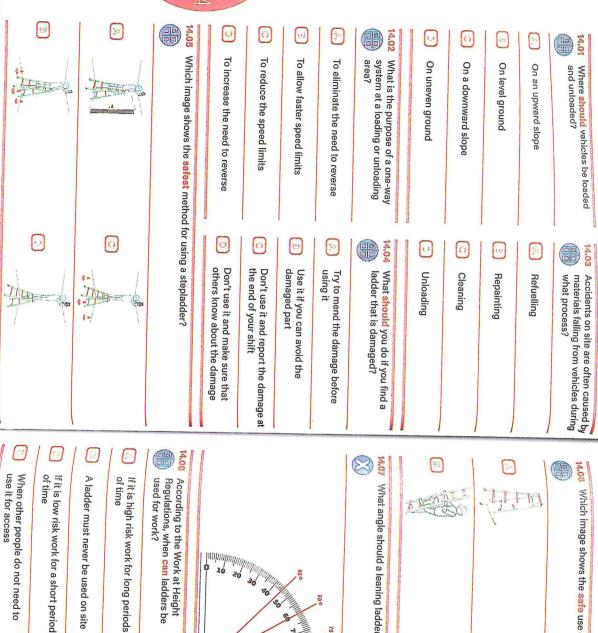
If you feel that the task you are completing at height is unsafe, stop work and report it

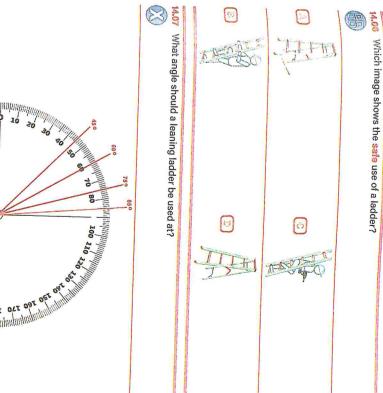
It would be classed as working at height if you were standing on the back of a lorry during loading or unloading activities

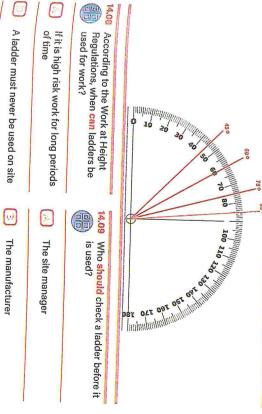
0

0 All roofs should be treated as fragile until a competent person has confirmed they are not









(13%)

The person who is going to use it

A site safety office

14.13

Which of the following is not true when using podium steps?





Secure it at the top



0

Wedge the bottom of the ladder with blocks of wood

0

Podium step wheels must be locked before you get on

Podium steps should be inspected before use

Podium steps are safe and can't topple over

Secure it at the bottom



on the bottom rung Ask someone to stand with their foot

overreach sideways

Podium steps can easily topple if you



14.11 What is the correct way to climb a ladder?



By having two people on the ladder at all times

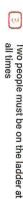
32



14.14

Which of these statements is true

Only using the ladder when wearing a safety harness



Having two points of contact with the ladder at all times Ö



the ladder at all times

Having three points of contact with

It must be secured, and extend at least 1 m above the platform



14.12

How many people are allowed on a

ladder at the same time?

What should you do if you need to brakes don't work? use a mobile access tower but the



Do not use the tower



A maximum of two people

Only one person

Only use the tower if the floor is level



and stop them moving Use some wood to wedge the wheels

33

17

extension ladder

One person on each section of an

(1)

Three people, if it is long enough

14.16 What is the correct way to reach access tower? the working platform of a mobile





Climb up the ladder built into the tower



Climb up the outside of the diagonal bracing



Lean a ladder against the tower and climb up that

Climb up the tower frame on the

outside of the tower



14.17 A mobile access tower must not be



used on what surface?





A paved patio

All broken rungs must be clearly marked



An asphalt road



It must be wedged at the bottom to stop it slipping

Soft or uneven ground



A smooth concrete path



method of accessing a mobile access Which of the following is the safest





tower?



Climbing up the outside of the tower

Climbing a ladder inside the tower



Climbing a rope on the outside of the tower





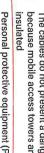








until it is confirmed they are dead



14.19

statements is true when referring to the wheels on mobile access towers? Which one of the following









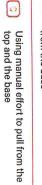
The wheels should be locked when



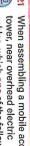
















because mobile access towers are The cables do not present a danger

0

14.22 8 When working at height in a



equipment (PPE) should be worn? mobile elevating work platform which item of personal protective (MEWP), over or near to deep water



Wellington boots







റ

Full face respirator

O

Soft or uneven ground

0

MEWP is needed

Inform a supervisor that a larger

ij

A smooth concrete path

(00)

Use a step ladder on the platform

2

An asphalt road

Stand on the guard rails







0

U

A concrete road

0

Put pallets on the working platform

Full body harness

14.23

elevating work platform (MEWP)? What should a harness's lanyard be attached to when working in a mobile



14.26 platform (MEWP) (sometimes know A worker is wearing a harness in a boom type mobile elevating work as a cherry picker). Which one of the following should the harness have?

14.29

What should you do if you are

required to use access equipment

that you have not been trained

to use?



Get a ladder instead

itti

Ask someone else to do it

A work-restraint lanyard clipped to the hand rail of the basket

m

റ A fall-arrest lanyard clipped to the structure being worked on

0

Do the job if it won't take long

ဂ

you are working on

A point on the structure or building

The MEWP handrai

The control box

0 A fall-restraint lanyard clipped to the control box of the machine

supervisor

Stop work and speak to your

A designated anchor point within the

platform or basket



14.24

A worker has been asked to operate

(MEWP), but has no training. What a mobile elevating work platform

should they do?



mobile elevating work What does this symbol on

(D) platform (MEWP) show?

The location of the lowering controls

for use in emergency

Ø workers can lean over the platform The location of the points where

(W

Ask a workmate how to operate the

possible

Get the work done as quickly as

0

no training

Tell their supervisor that they have

0 The guard-rail height

platform The safe method of exiting the

Operate the MEWP at breaktime

when no-one is around

17.

A mobile elevating work platform (MEWP) must **not** be used on what

14.25

surface?



Which one of the following should a worker do if a mobile elevating work platform (MEWP) does not allow safe access to the place of work?

14,30



is the best way to stop yourself falling If you are working on a flat roof, what over the edge?



Put a large warning sign at the edge of the roof

ÇÜ

Protect the edge with a guard-rail and a toe-board

ဂ

when you get too close to the edge Ask someone to watch you and should

14.31 checks on ladders or other Who should complete pre-use at height? equipment used for working



UI The worker using the equipment

ကြ The supervisor

The site manage

14.32 Which two of the following statements are true about working on a roof?

You will be asked to 'drag and drop' your answers

(v) It is safe to try to walk near underlying root supports

Wired glass roof panels are likely to be

It is easy to see which roof surfaces are likely to be fragile

Workers should not work on a roof where there is no protection from falls

Asbestos and fibre cement roof sheets are unlikely to be fragile



sign mean? What does the following



Fragile roof



Safety boots must be worn

0

U

prevent them being stolen It is advisable to paint ladders to because this protects them It is a good idea to paint ladders



No running

14.34 A fragile roof needs to be repaired. Which of the following would be regarded as the safest method?

> should people below be protected? toe-board height on a scaffold. How A worker is storing materials above

Shout a warning to anyone passing





Use string to secure the materials

ladders and ropes for anchoring Workers work from underneath using safety boots and helmets

mesh netting

Use a brick guard or suitable

Ö

approaching

Halt the work when people are

statements is true of a person who Which one of the following has fallen, and is suspended in a 14,38

They will need to be rescued quickly fall-arrest harness?

There will be no reason to call an 19

ambulance

They will be safe in the harness for They should be left to rescue

over an hour

themselves

14.36

Which one of the following wooden ladders used in statements is true of painting



14.39 ladder in one position? that a worker should work from a step



Less than 30 minutes





make them more visible

Ladders should be painted orange to

this could hide defects or damage

Ladders should never be painted as

construction?

Less than one hour



Less than 90 minutes





14.40 storing materials on a working Which one of the statements about platform is correct?



if they are going to be there for less Materials do not need to be secured

than an hour

even if they pose a trip hazard or Materials can be stored anywhere, block the walkway

(0)

can't fall and the platform must be able to take their weight Materials must be stored so they

people being hit by falling tools and What is the best way to stop materials when you are working



Only allow authorised people underneath the work area

Tell them you will be working above

Exclude people from below the work them and erect signs area with fencing and signs

What is the maximum length of time

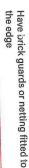


14.42 If you need to stack materials on a working platform, what is the best way to stop them falling over the

HIGH RISK ACTIVITIES



Put a warning sign on the stack



0

Build the stack so that it leans away from the edge



14.43 from falling materials for the duration To ensure the public is not put at risk of work, what may be necessary?



Giving the public hard hats

Making pedestrians use the road

Giving the public hi-vis clothing

If a person is struck by a falling consequence? object, what could be the negative

7-They get fired

[19] They get injured

Û They get a promotion

They get compensation

Under which one of the following

to remove a protective cover from a circumstances is it safe for a worker deep service hole on site?

helmet and waits until everyone else has left the site The worker is wearing a safety

is protected from falling whilst the The worker is wearing hi-vis and has cover is not in place The worker is authorised to do so and

by the hole so people will avoid the area told a few people on site that the cover will be removed The worker has placed a safety cone

14.45 What piece of personal protective equipment (PPE) should be worn on sites where there is a risk of falling objects?

- Protective goggles

(ei

Hard hat

- Hi-vis clothing
- A safety harness

14.46 When is it safe to cross a fragile roof?



(ty) Only if you do not walk on any plastic

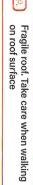
marked and protected

The fragile areas should be clearly

- When crawling boards with handrails are available to use
- At any time as long as you walk along the line of the bolts

What does this sign mean?

14.47



A reinforced concrete roof

- Load-bearing roof. The surface can be slippery when wet
- 0 (n) measures and do not stand directly Load-bearing roof. You can stand on the surface but not on any roof lights Fragile roof. Use fall protection

O

A glass panel roo

itti

A fibre cement sheet root

14.48 roof panels?

falling through voids, holes or fragile What is the best way to stop people



Mark the dangerous areas with red areas are

and white warning tape

- safety netting and tell everyone to Cover the dangerous areas with
- over the dangerous areas and add Place secure, load-bearing covers warning signage

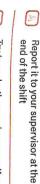
14.49 surfaces has been applied to a roof. A material that may hide fragile



- Nothing the material applied should be fine
- n Nothing - workers should know to be careful
- O The fragile areas should be painted

14.50 Which one of the following surfaces is not likely to be fragile?

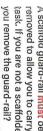




- then report it to your supervisor
- supervisor straight away

A slate tiled roof

A scaffold guard-rail must be removed to allow you to carry out a task. If you are not a scaffolder, can



leave the site Yes, if you put it back before you

D

Use a colleague's harness instead

- Yes, if you put it back as soon as you have finished
- guard-rail but you can put it back
- By asking the telehandler driver
- 171 By asking the principal contractor
- or signage
- ledgers start to deflect The safe load is breached when the

What should you do if you think that is not safe?

- Try to make the repairs yourself and
- Report your concerns to your
- Ignore it and wait for the scaffolders to identify any problems

- No, only a scaffolder can remove the guard-rail and put it back
- No, only a scaffolder can remove the
- scaffold platform be identified? How can the safe load rating for a

- Referring to the handover certificate
- the scaffolding you are working from
- [pg]

What should you do if you notice your harness or attachment is damaged?

- Stop and tell your supervisor straight away
- 0 Stop and tell your supervisor but Use it and tell your supervisor at the end of the day carry on using it until it is replaced
- 14.55 What is an inertia reel?
- A retractable fall arrester
- gji A horizontal fall arrester
- A pulley-operated fall arrester
- A rope-based fall arrester
- 14,56 Which of the following best describes the purpose of persona
- It is designed to prevent falls from fall prevention equipment?
- consequences if a fall occurs It is designed to minimise the
- It is designed to protect more than one person if a fall occurs

0

It is designed to be used in confined spaces only

HIGH RISK ACTIVITIES

14.57 When are personal fall-arrest systems to be used?





(ci Only as a last resort

The majority of the time



In the morning

During a night shift



equipment?

14.58 out pre-use checks on fall-arrest Who should know how to carry



All workers who use it



All workers on site

The apprentice workers

T

Excavations and confined spaces

HIGH RISK ACTIVITIES

secured ladder. E_{XC} avations should always have a safe means of access and egress, such as a

affect stability. Excavations should be inspected at the start of every shift, or after events that might

The most accurate way to identify the location of buried services is through the use of trial holes.

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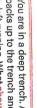
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If you damage an underground service, stop work, do not touch anything and report it. permit systems are often used where people are working in confined spaces.

If you are working in a confined space and the gas alarm sounds, get out immediately.

There should always be a rescue plan if you are working in a confined space.



is left running. What should you do? You are in a deep trench. A lorry backs up to the trench and the engine



Get out of the trench quickly











15.02 What should you do if you see the working in an excavation? side supports move when you are



Keep working and watch to see if they move again



Nothing. The sides are expected to move all the time

...

15.03 What is the main hazard when working in an excavation?



Breathing-in hazardous dust from the earth



Cuts and abrasions from the trench sides



0







15.04 When should an excavation be battered back or stepped?





If any buried services cross the excavation



the trench

(U) If there is a risk of the sides falling in, regardless of depth

15.05 an excavation prevent? What do guard-rails around the top of





(F) The sides of the trench collapsing



People falling into the trench and

Ţ,į

being injured



Toxic gases collecting in the bottom of the trench the top and into the trench Rainwater running off the ground at



15.06 What is the safest way to get into and out of a deep excavation?



Use a fixed staircase





Ö

to

Use an excavator bucket





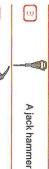
15.07 when digging near to underground electrical services? What equipment should be used



An excavator







An insulated spade

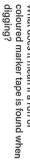
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A pick and fork

15.08 What does it mean if a run of





The excavation now requires side supports



Įų,

excavation must be carried out There is a buried service and further

0

equipment (RPE) must wear respiratory protective The soil is contaminated and you



does a yellow service pipe carry? According to the guidance on underground service pipes, what

15.09





(0) Electricity

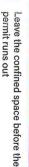
Telecoms



carrying out?



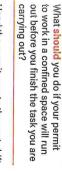




Ask your supervisor to change the date on the permit



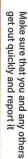








[0]



Why is methane gas dangerous in confined spaces? Give two answers



You will be asked to 'drag and drop' your answers

Trá	
It makes you hyperactive	It can explode





You will not be able to see because of the dense fumes



What three things should you do before entering a confined space that has sludge at

You will be asked to 'drag and drop' your answers



Have the correct training

Identify what the sludge is





Throw something into the sludge to see how deep it is





15.12 What should you do if you are in a deep trench and you start to feel



Sit down in the trench and take a rest



15.14

competent before they are allowed to What is the most important reason why people should be trained and enter a confined space?





breathable air Confined spaces never contain

house-building sites Confined spaces are only found on



(0)

flammable or explosive gases Confined spaces always contain

understand the potential hazards Confined space entrants need to



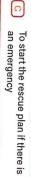
What is the main reason for having is taking place inside it? outside a confined space while work a person positioned immediately



A

To carry out a risk assessment for







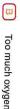


space?

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15.16













What might happen if the level of oxygen drops below 8% in a confined









0









rotten eggs?













What is it likely to mean if the soil gives off a strange smell when digging?









6 Hazardous substances

Asbestos containing materials (ACMs) can be difficult to identify. Asbestos is made up of hazardous, microscopic fibres which can easily be inhaled

If you think a material contains asbestos, always assume it does. Stop work, warn others, and report it to your supervisor

Your employer should ensure that exposure to hazardous substances is prevented or

Health and safety information for hazardous substances should be detailed in a adequately controlled COSHH assessment.

Control measures for working with hazardous substances should be monitored regularly.

Wet cement and concrete can cause skin burns and dermatitis if they are in direct contact with your skin

Lead is toxic. The most common route of entry into the body is via the mouth (ingestion).



16.01 Where are you most likely to come grap across asbestos?











Breathing in asbestos dust is most likely to cause which of the following?

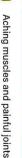


Lung diseases



Dizziness and headaches

O



16.03 Exposure to asbestos fibres may result in which illness?





Dermatitis







െ

Heart disease

0

Termites

[12]

Dry rot

Rust



Lung cance

Asbestos

16.04



16.07

hazard from kneeling directly on

What is the main, immediate

wet cement?



P

Skin burns



[10]

Dermatitis





0

Eczema





Which one of the following By putting a piece in water and seeing if it dissolves 16.08 What does a COSHH assessment

16.05

statements about asbestos is true?

cover?



enter the body through the skin

Asbestos fibres are most likely to

tu Lifting heavy loads and how to Working safely in confined spaces



protect yourself

Ô

Asbestos in buildings must always be

removed regardless of condition

problems for smokers

Asbestos fibres only cause health

protect yourself when using them Hazardous substances and how to

Asbestos fibres are most likely to enter the body through inhalation

16.06

Cement-based roofing sheets can often contain what hazardous are a common material which





a hazardous substance?



The site first aider



The site security people



0





16.13











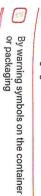












Whose responsibility is it to explain the health risks and safe method of assessment) before work starts with work you need to follow (the COSHH



What does the word sensitiser mean on the packaging of a substance?



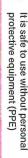
It should not be used under any circumstances

w

It must be mixed with water before it can be used



(c)





is associated with a substance being toxic if swallowed or inhaled? Identify which of the following signs













16.14









III health

What should employers check regularly if you are working with hazardous substances?





Your mood

Your family



Your health



when they start to feel ill. What should the worker do? A worker is using a new substance



supervisor or manager on site Stop work and report it to a

Sanding down some old paintwork

Which of the following tasks could place a worker at the greatest risk of lead poisoning, if control measures were not put in place?





Plastering a ceiling in a new build home



You have now completed the core knowledge questions

Congratulations











Building a wall out of old stone

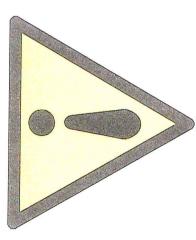






Cutting timber in a roof construction





For the Specialists test

You should now revise the appropriate specialist activity from Section E.

report and continue to work with the

Enter the details into an incident

to the supervisor later

Continue with the work but report it

with certain substances Nothing - it is acceptable to feel ill

substance

checklist, which of these hazardous substances should be identified? When working through a construction health and safety



Lead, solvents, cement, asbestos



Asbestos, cement, paints, noise



Noise levels, solvents, dust, paint



1111

asbestos, cement Vibration levels, noise levels,





If you are preparing for a specialist test you also need to revise the appropriate specialist activity, from those listed below.

200	2	0 0		9 10	N W	Heating, ((HVACR)	22		20	i ii) (3)	17
Plumbing (JIB)	Services and facilities maintenance	Refrigeration and air conditioning	Ductwork	Piperitting and welding	Heating and plumbing services	Heating, ventilation, air conditioning and refrigeration (HVACR)	Tunnelling	Lifts and escalators	Specialist work at height	Highway works	Demolition	Supervisory
223	215	207	199	190	182		174	165	156	147	140	126

223



Supervisory

0	0	0	17.03) () (17.02			0	0	0	17.01	A. STORY OF THE PARTY OF THE PA
A car park or other parking facilities	A premises log book	A safety log book	Under the Construction (Design and Management) Regulations 2015, what must be provided before construction work starts, and then maintained until the end of the project?	The construction contract agreement	ine method statement	The construction phase plan		The health and safety file	When the Construction (Design and Management) Regulations 2015 apply, what raust be in place before construction work begins?	the construction project	standards of the structure	To record the health and safety	To help prepare the final accounts for the structure	To help people who have to carry out work on the structure in the future	What is the purpose of the health and safety file that is handed to the client at the end of the project?	
0	0	0	17.00		0	0	10		17.05	0	0		10		17.04	
A hard hat, hi-vis clothing and safety footwear	The relevant competency card	The right skills, knowledge, training and experience	Under the Construction (Design and Management) Regulations 2015, when the contractor sets a person to work on a construction site, what must they ensure that person has, or be in the process of, obtaining?	The pre-tender demolition health and safety plan	A demolition risk assessment	The arrangements for demolition recorded in writing	A health and safety file	start?	Under the Construction (Design and Management) Regulations 2015, which of the following must be in	In the designer's risk assessment	In the contract documentation	In the construction phase plan	In the health and safety file	and safety for the project you are working on?		The second secon

(38)

Adequate welfare facilities

A relevant qualification for the work to be undertaken

Details of where, and how, you intend to use the substance

The delivery note

The age of the people doing the work

Your company's safety policy

You will be asked to 'drag and drop' your answers

The safety data sheet

assessment. What are the two main things you will need?



	-													
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Run the tool at top speed to see if it cuts out	Switch the power on and off	Press the test button on the RCD unit	Switch the tool on and off	How could a site worker check if the residual current device (RCD) through which a 230 volt hand tool is connected to the supply is working correctly?	It saves energy and lowers costs	It makes the tool run at a safe speed	It quickly cuts off the power if there is a fault	It lowers the voltage	Why struct a residual current device (RCD) be used in conjunction with 230 volt electrical equipment?	Red	Black	Blue	Yellow	On the site electrical distribution system, which colour plug indicates a 400 volt supply?
		0				0	0	0	8 27.40 c		0	0		17245
Damaging the surface finish of the building or structure	Excavating too deeply into soft ground	Noise and vibration affecting the occupiers of the building	foundations of the building	Which of the following is a significant hazard when excavating alongside a building or structure? Undermining or weakening the	A first-aid room	A place of safety	The open air	The ground	Where should an emergency escape route take you to?	400 volts	230 volts	110 volts	50 volts	In the colour coding of electrical power supplies on site, what voltage does a blue plug represent?
10	00	0	0	17.22		0		0	17.18	0	0	0	0	



The hazards, risks and nature of the work carried out

The number of people expected to be on site at any one time

The difficulty in finding time to purchase the necessary equipment

The space in the site office to store the necessary equipment

The cost of first-aid equipment

facilities on site?

(4%)

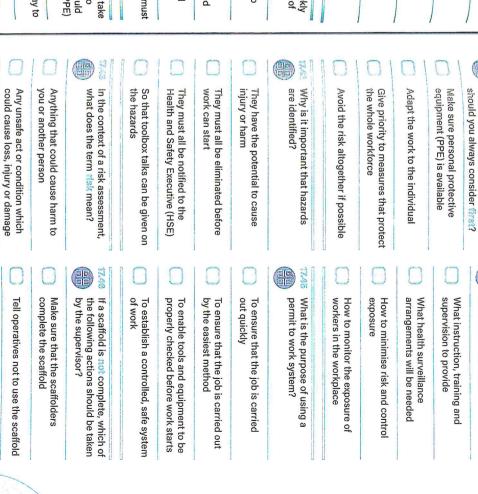
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**	0	0	10	0	17.25		0		0	17.24		0			17,23
	They are less likely to wear personal protective equipment (PPE)	net recognise danger or understand fully what could go wrong	gain experience	Legislation does not apply to anyone under 18 years of age	Why may a young person be more at risk of having an accident?	Checking that all staff read and understand all health and safety notices	Looking at the work to be done, what could go wrong and how it could be done safely	similar to those that have already occurred	work that they have been instructed to do safety.		They should only apply splints to broken bones	They should contact the emergency services when required	ney snould provide all of the care normally carried out by a first aider	They should provide most of the care normally carried out by a first aider	
		0		0	17.28	0	0	0	0	17.27		0	0	0	17.26
	Nothing	Personal protective equipment (PPE)	Screens	Warning signs	What should be used to protect passers-by from getting arc eye when electric welding is about to start on your site?	Outside the cabin	Inside the cabin next to the appliance	Under the cabin	Inside the cabin in a locked cupboard	Where should liquefied petroleum gas (LPG) cylinders supplying an appliance in a site cabin be positioned?	Covered by a tarpaulin to shield the compressed cylinder from sunlight	In a secure storage container at the back of the site	In a locked cage at least 3 m from any oxygen cylinders	In a locked cellar with clear warning signs	How should cylinders containing liquefied petroleum gas (LPG) be stored on site?
	/ 0	10	0		17.31		0	0	0	17.30	0	0		01	
	The work in hand can be completed, but no new works started	The work can continue if extra safety precautions are taken	The work that is subject to the notice must stop	Work can continue, as long as a risk assessment is carried out	What must happen if a prohibition notice is issued by an inspector of the Health and Safety Executive (HSE) or Local Authority?	Within ten days	Within seven days	Within five days	Immediately	If there is a fatal accident or a reportable dangerous occurrence on site, when must the Health and Safety Executive (HSE) be informed?	75% (175% of the total content)	50% (150% of the total content)	30% (130% of the total content)	10% (110% of the total content)	What should be the capacity of a spillage bund around a fuel storage tank, in addition to the volume of the tank?
	0	0	0	0	17.34	0	0	0		17.33		0	0		17.32
	Seven or more	Six or more	Five or more	Three or more	The significant findings of risk assessments must be recorded when how many people are employed?	If the work is going to last more than 30 days	If they employ a safety officer	If they employ three people or more	If they employ five people or more	When does an employer have to prepare a written health and safety policy?	The nearest hospital	The person's doctor	The local Health Authority	The Health and Safety Executive (HSE)	Who should you inform if someone tells you that they have work-related hand-arm vibration syndrome (HAVS)?

Which of the following should be the

first consideration if you need to use

a hazardous substance?

	0	0	0	0	(7.37 (8)			0	0	17.3a		0	0	0	17.35
	95 decibels (dBA)	90 decibels (dBA)	85 decibels (dBA)	80 decibels (dBA)	At what decibel (dBA) level does it become mandatory for an employer to establish hearing protection zones?	The noise level at which the worker must wear hearing protection	The level of noise which must not be exceeded on the site boundary	The noise level at which the worker can request hearing protection	The average background noise level	What does the term iswer exposure action value (80 decibels (dBA)) mean, when referring to noise?	In a risk assessment	In a lifting operation toolbox talk	In an approved lifting plan or method statement	In the crane hire contract	Before allowing a lifting operation to be carried out, where should you ensure that the sequence of operations is recorded to enable a safe lift?
	0	0	0	0	B 74	0	0	10		17.33	0	0	0	C	
The second secon	Only when the risks cannot be eliminated by other means	Never, as using PPE is bad practice	First, as the only practical measure	First, because it is an effective way to protect people	In considering what measures to take to protect workers against risks to their health and safety, when should personal protective equipment (PPE) be considered?	It is the exposure limit value and must not be exceeded	It is the peak sound pressure and all work must stop	It is the upper action value and hearing protection must be issued	It is the lower action value and no action is necessary	What is the significance of a weekly or daily personal noise exposure of 87 decibels (dBA)?	90 decibels (dBA)	87 decibels (dBA)	85 decibels (dBA)	80 decibels (dBA)	At what reference noise level must you provide hearing protection to workers if they ask for it?
-	0	10	10	0 0					0			O		0	
THE RESERVED THE RESERVED THE PROPERTY OF THE	Any work activity that can be described as hazardous or dangerous	else, could be harmed, and how serious any harm could be	The likelihood that you or someone	you or another person Any unsafe act or condition which	In the context of a risk assessment, what does the term risk mean? Anything that could cause harm to	So that toolbox talks can be given on the hazards	They must all be notified to the Health and Safety Executive (HSE)	They must all be eliminated before work can start	They have the potential to cause injury or harm	Why is it important that hazards are identified?	Avoid the risk altogether if possible	Give priority to measures that protect the whole workforce	Adapt the work to the individual	Make sure personal protective equipment (PPE) is available	In deciding what control measures to take, following a risk assessment that has revealed a risk, what measure should you always consider @rst?



add warning signage

Prevent access to the scaffold and

Display a warning notice and tell operatives to use the scaffold with care

CONTRACTOR OF THE PARTY OF THE								
_	17.50	An extension of the second of	17.49			177		17.47
ակակակակակակակակակակակակակակակակակակակ	What is the minimum height of the main guard-rail on a scaffold?	աղադակակակակակակակակակակակակակակակակակակ	What is the maximum unprotected gap allowed between any guard-rail, toe-board, barrier or other similar means of protection on a scaffold?	Within 24 hours	Within 12 hours	Within six hours	Within two hours	Following a scaffold inspection under the Work at Height Regulations, how soon must a report be given to the person on whose behalf the inspection was made?
950 mm	Juard-ra	oo mm	illowed on on a	9			30	17.48
od musika hada alam kada a	ail on a scaffold?	ww oog Industratiententententententententententententente	between any guard-rail, toe-board, scaffold?	600 mm	500 mm	470 mm	400 mm	On a scaffold, what is the largest allowable size of an unprotected gap between any guard-rail, toe-board, barrier or other similar means of protection?
1010101	17.53		17.52		0	730		77.51

On a legible notice in the site

welfare area

10		9			1		1			2
Where must the number of people who may be carried in a passenger hoist on site be displayed?		Display the method statement on a noticeboard in the office	Make sure that those doing the job have read the method statement	understanding	Explain the method statement to those doing the job and test their	abelicag	Put the method statement in a	understood a method statement.	or manager to make sure that the operatives doing a job have fully	What is the best way for a supervisor
17.55	NOTICE ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE		0		(37)					17.54
What is your least reliable source of information when assessing the level of vibration from a powered		By a permit to work system	By the main contractor	3 No. 10	By those who are working in it		By a site security operative		people are working in a riser shatt?	How should access be controlled if

On a legible notice within the cage of the hoist On a legible notice handed to the hoist operator On a legible notice displayed during the site induction hand tool? In-use vibration measurement of the tool Vibration figures taken from the tool manufacturer's handbook Vibration data from the Health and Safety Executive's (HSE) master list Your own judgement based upon observation or experience

17,56 What regulation contains details of the welfare facilities that must be provided on a construction site?

From a safety point of view, which of the following should be considered

first when deciding on the number and location of access and egress

The Control of Substances Hazardous to Health (COSHH)

The Construction (Design and Management) Regulations

Off-road parking for cars and vans

Access for the emergency services

points on a site?

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The Workplace (Health, Safety and Welfare) Regulations

The Management of Health and Safety at Work Regulations

Site security

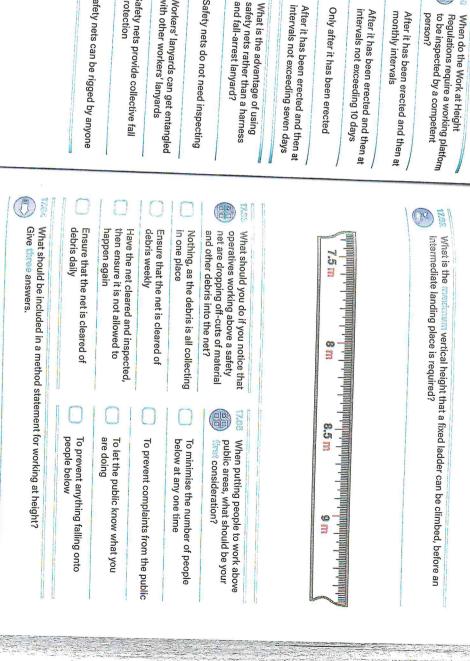
Access for heavy vehicles

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17.57

What is regarded as the least resourt in the hierarchy of control for operatives' safety when working at

Four scaffold boards wide	Three scaffold boards wide	Two scaffold boards wide	Suitable and sufficient for the job in hand	Work at Height Regulations, what must the minimum width of a working platform be?		(MEWP)	Mobile elevating work platform	Mobile access to use DORG	Guard-rail and too be	-	Access tower scaffold	Mobile access tower	(MEWP)	Safety harness
					Safety nets can be rigged by anyone	Safety nets provide collective fall protection	Workers' lanyards can get entangled with other workers' lanyards	Safety nets do not need inspecting	what is the advantage of using safety nets rather than a harness and fall-arrest lanyard?	1700	After it has been erected and then a	Only after it has been erected	After it has been erected and then intervals not exceeding 10 days	After it has been erected and then monthly intervals



The sequence of operations and the equipment to be used The cost of the job and the time it will take How much insurance cover will be required Who will supervise the job on site How falls are to be prevented

You will be asked to 'drag and drop' your answers

They will not fully inflate	0	Only if materials are being stored on the working platform	U
The inflation pump will become overloaded		If it is possible to fall 3 m	
The pressure in the bags will cause them to burst	0	At any height if a fall could result in an injury	(25)
They will exert a sideways pressure on anything that is containing them		If it is possible to fall 2 m	
Why is it dangerous to use inflatable airbags for fall arrest if they are too big for the area to be protected?		When should guard-rails be fitted to a working platform?	
It must be switched off when the airbags are full	0	Prevent people and materials from falling	
It must run all the time while work is carried out at height		Warn people where the edge of the roof is	0
It must be switched off from time to time to avoid over-inflation		Secure tools and materials close to the edge	
It must be electrically powered		Allow persons to work on both sides of it	
A design feature of some airbags used for fall arrest is a controlled leak rate. If you are using these, what must you ensure about the inflation pump?	1770	What must edge protection be designed to do?	
The load-bearing capacity of a scaffold		At any height below the working position	
Wind speed		6 m below where you are working	0
The load-bearing capacity of a flat roof	10	2 m below where you are working	10
Air temperature		Immediately below where you are working	0
The Beaufort Scale is important when working at height externally. What does it measure?		Ideally, where should a safety net be rigged?	8 57 88

what is the main danger of leaving someone who has fallen suspended in a harness for too long?

The anchorage point may fail

They may try to climb back up the structure and fall again

They may suffer loss of consciousness and further injury

it is a distraction for other workers

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3.10 3.09 03

First aid and emergency procedures

2	General responsibilities		
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1.03	C	1.17	А, Е
1.04	D, E	1.18	A
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1.07	В, D	1.21	A
1.08	А, Е	1.22	8
1.09	А	1.23	ם
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=	А	1.25	A
1.12	c	1.26	ם
1.13	В	1.27	0
1.14	Α		
02	Accident reporting and recording	ecording	
2.01	C	2.11	A
2.02	_D	2.12	A
		Reference in College agreement)

		3
0	2:19	8
D	2.18	A
c	2.17	Œ
А, В	2.16	А
В, С	2.15	A, D
В	2.14	B, E
C	2.13	D
A	2.12	В
A	2.11	0

2.03

2.09 2.08 2.07 2.06 2.05

Personal protective equipment

04	Personal protective equipment	oment		
4.01	ם	4.15		ס
4.02	ם	4.16	0	
4.03	В			
4.04	8			<u>"</u> Д
4.05	D			
4.06	Α	4.17		P
4.07	А	4.18		C
4.08	C	4.19		0
4.09	8	4.20		w w
4.10	C	4.21		D
4.11	A	4.22	Face	, 01
4.12	D			_\/.
4.13	ם			
4.14	В			1/1

06 Dust and fumes (Respiratory hazards)

05 Environmental awareness and waste control

5.01 D 5.15 B 5.02 B 5.16 D, E 5.03 A, B 5.17 B, C 5.04 C 5.18 B 5.05 A, C, E 5.19 A 5.06 A, B 5.20 D 5.07 B 5.21 C, E 5.08 D, E 5.22 B 5.09 D, E 5.23 A 5.10 Broken bricks Non-hazardous 5.24 A 5.10 Broken bricks Non-hazardous 5.25 B 5.10 Broken bricks Non-hazardous 5.25 B 5.23 A A A 5.10 Broken bricks Non-hazardous 5.25 B 5.23 A A A D 5.25 B B B 5.26 D D D 5.28 D D D 5.			C		5.14
D 5.15 A, B 5.16 A, C, E 5.18 A, C, E 5.19 A, B 5.20 B 5.21 D 5.22 Broken bricks Non-hazardous D, E 5.23 Broken bricks Non-hazardous 5.24 Oil-based paint Hazardous 5.25 B, D 5.28 B, D 5.29	В	5.30	D		5.13
D 5.15 B 5.16 A, B 5.17 C 5.18 A, C, E 5.19 A, B 5.20 B 5.21 B 5.21 D, E 5.23 Broken bricks Non-hazardous D, E 5.23 Broken bricks Non-hazardous 5.24 5.25 Oil-based paint Hazardous 5.26 D 5.28	D	5.29	B, D		5.12
D 5.15 B 5.16 A, B 5.17 C 5.18 A, C, E 5.19 A, B 5.20 B 5.21 D 5.22 B 5.21 B 5.23 Broken bricks Non-hazardous 5.24 Oil-based paint Hazardous 5.25 Oil-based paint Hazardous 5.26	D	5,28	D		5.11
D 5.15 B 5.16 A, B 5.17 C 5.18 A, C, E 5.19 A, B 5.20 B 5.21 D 5.22 D, E 5.23 Broken bricks Non-hazardous 5.23 Broken bricks Non-hazardous 5.24 5.25 5.26	D	5.27	Hazardous	Oil-based paint	
D 5.15 A, B 5.16 A, C, E 5.19 A, B 5.20 A, B 5.21 D 5.22 D 5.23 Broken bricks Non-hazardous 5.24 Broken bricks Non-hazardous 5.25	D	5.26	Hazardous	rescent light tubes	Flou
D 5.15 B 5.16 A, B 5.17 C 5.18 A, C, E 5.19 A, B 5.20 B 5.21 D, E 5.23 Broken bricks Non-hazardous 5.24	В	5.25	Non-hazardous	ited timber off-cuts	Untreat
D 5.15 B 5.16 A, B 5.17 C 5.18 A, C, E 5.19 A, B 5.20 B 5.21 D 5.22 D, E 5.23	Α	5.24	Non-hazardous	Broken bricks	5.10
D 5.15 B 5.16 A, B 5.17 C 5.18 A, C, E 5.19 A, B 5.20 B 5.21 D 5.22	A	5.23	D, E		5.09
D 5.15 B 5.16 A, B 5.17 C 5.18 A, C, E 5.19 A, B 5.20 B 5.21	В	5.22	D		5.08
D 5.15 B 5.16 A, B 5.17 C 5.18 A, C, E 5.19 A, B 5.20	C, E	5.21	W		5.07
D 5.15 B 5.16 A, B 5.17 C 5.18 A, C, E 5.19	D	5.20	A, B		5.06
D 5.15 B 5.16 A, B 5.17 C 5.18	A	5.19	A, C, E		5.05
D 5.15 B 5.16 A, B 5.17	8	5.18	C		5.04
D 5.15 B 5.16	В, С	5.17	A, B		5.03
D 5.15	D, E	5.16	8		5.02
		5.15	D		5.01

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6.53 D	56 B	6.25
6,52 A		
6.51 A, D		
6.50 A		
6.49 D	4 A	6.24
6,48	3	6.23
6.47 A, E	2 D	6.22
6.46 D	6	6.21
6.45 A	0 C	6.20
6.44 A	D	6.19
6.43	A	6,18
6.42 A, B	C	6.17
6.41 C	80	6.16
6,40 C	C	6.15
6.39 C	В	6.14
6.38 D	8	6.13
6.37 B	А	6.12
6.36 D, E	A	6.11
6.35 D, E	A	6.10
6.34 A, B	Α	6.09
6.33 C	A	6.08
6.32 C	A	6.07
6.31 D	В	6,06
6.30 A, B	Α	6.05
6.29 B	ם	6.04
6,28 A	А, В	6.03
6.27 A	А, С	6.02
6.26 D	D	6.01

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(01 C, D 7.14 2 m (02 D (03 C 7.15 D (04 C 7.15 D (05 C 7.17 B (06 B, D, E 7.18 C (08 B, D, E 7.18 C (109 B 7.19 D (100 C 7.20 D (111 C 7.22 C (112 C 7.22 C (113 A, B 7.23 A	А, В	7.24	
C, D 7.14 2 m C C 7.15 C 7.15 B 7.16 B, D, E 7.18 B 7.19 C 7.20 C 7.22	A	7.23	7.13 A, B
C, D 7.14 2 m C C 7.15 C 7.16 B, D, E 7.18 B, D, E 7.18 C 7.20 C 7.21	0	7.22	7.12 C
C, D 7.14 2 m C C 7.15 C 7.15 B 7.16 B, D, E 7.18 T.19 C 7.20	C	7.21	7.11 C
C, D 7.14 2 m C C 7.15 B, D, E 7.18 7.19	ם	7.20	7.10 C
C, D 7.14 2 m 2 m 2 m 3 m C 7.15 C 7.15 S 7.18	0	7.19	7.09 B
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C, D 7.14 2 m 2 m 2 m 3 m C 7.15 E 7.16	83	7.17	7
C, D 7.14 2 m 2 m 2 m 3 m C 7.15	D	7.16	7.06 B
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C, D 7:14 2 m 2 m 2 m 3 m			
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G	8.20	0	8,11
		ם	8,10
		D	8.09
		A, D	8.08
Sharps	8.19	D	8.07
C	8.18	C	8.06
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55	8.16	А	8.04
D	8.15	В	8.03
D	8.14	55	8.02
А	8.13	A	8.01
		Health and welfare	08

08 Health and welfare (continued)

	8.45 B
8.68 C	8.44 A
8.67 B	8.43 B
8,66 A	8.42
8.65 D	8.41 A
8.64	8.40 B
8.63 C	8.39 A
8,62 A	8.38 A
8.61 D	8.37 A
8.60 A	8,36 D
8.59 B	8,35 B
8.58	8.34 A
8.57 A	8.33 B
8.56 D	8,32 B
8.55 C	8,31 A
8.54	8.30 B
8.53 A	8.29 D
8.52 A	8.28 D 8
8.51 D	8.27 D 8
8.50 A	8.26 B 8
8,49 D	8,25 B 8
8,48 D	8.24 C, E 8
8.47 D	8.23 A 8
8,46 B	8.22 D 8

09 Manual handling

9.08 B 9.15	9.09 C 9.16	9.10 A 9.17		3.00	9.19	9.20	9.20
A, C, D	A		Α	BB A	C- B >	C C B A	B C C B A

Ö	Safety signs
10.01	
10.02	

10.03

304	
Fire	
prevention	
and	
control	

11.01	C, E	11.10
11.02	D, E	11.11
11,03	c	11.12
11.04	Α	11.13 1-C, 2-A, 3
11.05	CS	11.14
11.06	A, B, D	11.15
11,07	Α	11.36
11.08	D	11.17
11.09	C, D	11.18
13	Electrical safety, tools and equipment	d equipment
12.01	80	12.12
12.02	ŭ	ra:
12.03	0, 8	12.14
12,04	D	12.15
12.05	0	12.16
12.06	u	2.17
12.07	COS	12.18
12.08	A	12.19
12.09	D	12,20
12.10	D	12.21
17.		

12.11

Electrical safety, tools and equipment (continued)

3

Site transport and lifting operations

12,22		12.28	
		12.29	
		12.30	
	0	12.31	В,
12.23	A	12.32	A,
12.24	භ	12.33	
12,25	C	12.34	
	A	12.35	
12.27	D		

D	12.35
С, D	12,34
A	12.33
A, C, D	12.32
8, D, E	12,31
C	12.30
8	12.29
В	2,20

0	A	A, C, D	8, D, E	c	œ	8	
13.07	13.06	13.05	13.04	13.03	13.02	13.01	

13.24 13.23 13.22 13.21 13.20

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13.37 13.36 13.09 13.08

13.28 13.27 13.26

	14.10		
	14.09	8	14.06
	14.08	8	14.05
		D	14.04
		D	14.03
		A	14.02
75°	14.07	8	14.01
		Working at height	14
		A, D	13.19
	13.37	Α	13.18

14 Working at height (continued)

В	14.58	А	14.34
А	14.57	A	14.33
A	14.56	B, D	14.32
A	14.55	В	14.31
8	14.54	0	14.30
C	14.53	D	14.29
C	14.52	0	14.28
C	14.51	Α	14.27
А	14.50	A	14.26
co.	14.49	C	14.25
D	14.48	0	14.24
D	14.47	D	14.23
C	14.46		14.22
В	14.45	В	14.21
В	14.44	В	14.20
A	14.43	83	14.19
C	14.42	to to	14.18
D	14.41	C	14.17
D	14.40	А	14.16
A	14.39	A	14.15
В	14.38	D	14.14
ם	14.37	А	14.13
В	14.36	А	14.12
A	14.35	D	14.11

O	Excavations and confined spaces	spaces
5.01	A	15.11
5.02	C	15.12
5.03	ם	15.13
5.04	D	15.14
5.05	В	15.15
5.06	А	15.16
5.07	D	15.17
5.08	C	15.18
5.09	В	15.19

A, D

A, B, D

6	Hazardous substances		
16.01	C	16.10	D
16.02	А	16.11	D
16.03	D	16.12	c
16.04		16.13	В
16.05	D	16.14	D
16.06	D	16.15	0
16.07	А	16.16	A
16.08	D	16.17	A
16.09	C	16,18	0

17 Supervisory

950 mm			T.	
				17.27
			- CO	17.26
	950 mm	17.50	C	17.25
			0	17.24
470 mm			0	17.23
			A, B	17.22
	470 mm	17.49	22	17.21
8		17.48	А	17.20
D		17.47	E	17.19
D	o,	17.46	C	17.18
ם	S.	17.45	A	17.17
C		17.44	C	17.16
C		17.43	C	17.15
A		17.42	В	17.14
D		17.41	50	17.13
D		17.40	D	17.12
ם		17.39	8	17.11
А		17.38	C	17.10
8		17.37	В, Е	17.09
w I	o,	17.36	0	17.08
8	·	17.35	A, E	17.07
В		17.34	А	17.06
A		17.33	8	17.05
A		17.32	8	17.04
DJ .		17.31	D	17.03
A		17.30	83	17.02
A	9	17.29	A	17.01

c	18.21	D	18.09
В	18.20	В	18.08
A	18.19	The second secon	
A	18.18	3 m	
D	18.17		
D	18.16	3 m	18.07
В	18.15	83	18,06
83	18.14	0	18,05
TO TO	18.13	В	18.04
А	18.12	A	18.03
ם	18.11	0	18.02
0	18.10	83	18.01
C	17.70		
C	17.69	C	17.61
В	17.68	ם	17.60
D	17.67	A	17.59
А	17.66	ם	17.58
D	17.65	A	17.57
A, B, E	17.64	В	17.56
0	17.63	0	17.55
		D	17.54
9 m		В	17.53
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00 Demolition (contin

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Highway works (continued)

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18.24	C	18,34	D
18.25	C	18,35	A
18.26	A	18.36	D
18.27	8	18.37	A
18.28	В, С	18.38	D
18.29	A	18.39	В
18.30	83	18.40	C
18.31	C	18.41	C

3 Highway works

19.01 A 19.02 B, D 19.03 B. C	19.18	B, E
19.04	19.20	C
19.05	19.21	А
19,06	19,22	В
19,07	19.23	C
19,08	19.24	A, E
19.09	19.25	œ
1 01.61	19.26	В
19.11	19.27	C
19,12	19.28	A
19,13	19.29	C
19,14	19.30	В
19.15	19.31	83
19.16	19.32	, m

19,34 19.33 19.37 19,35 19,39 19,38 19.36 19,41 19,40

19.49 19,48 19,47 19.46 19,45 19.44 19.43

19.50

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20 Specialist work at height

19,42

C	20.29	53	20.13
DJ.	20.28	0	20.12
D	20.27	В	20.11
B	20.26	Total Management and Control of the	
C	20,25	470 mm	
D	20.24		
C	20,23	470 m	20,10
OJ.	20,22	D	20.09
D	20.21	ם	20,08
D	20,20	C	20.07
В	20.19	0	20.06
C, D	20.18	А	20.05
C	20.17	C	20.04
C	20,16	0	20.03
А	20,15	C 0	20.02
C	20.14	A, C, E	20.01

20 Specialist work at height (continued)

20,30	D	20,39	0
20.31	A	20,40	CU CU
20.32	C	20.41	A
20.33	C	20,42	A
20.34	D	20.43	00
20.35	ם	20,44	0
20,36	В, D, E	20,45	A
20,37	D	20.46	C
20.38	С, п	20.47	0

Lifts and escalators

B B A C C B B A D C B B B B B B B B B B B B B B B B B B				
B 21/18 21/19 21/19 21/20 21/20 21/20 21/22 21/22 21/22 21/22 21/22 21/22 21/22 21/22 21/22 21/22 21/22 21/22 21/22 21/22 21/22 21/22 21/23 21/22 21/23	Α	21.34	ರಾ	21.17
B 21/18 2 D 21/19 3 A 21.20 4 21.22 5 A 21.23 6 21.23 7 C 21.24 8 21.25 9 21.26 8 21.27 8 21.28 8 21.29 C 21.31 C 21.32	œ	21.33	B	21.16
B 21/18 D 21/19 D 21/20 D 21/20 D 21/21 D 21/22 D 21/23 D 21/23 D 21/25 D 21/25 D 21/26 D 21/2	A	21.32	>	21.15
B 21/18 2 D 21/19 3 A 21.20 5 A 21.21 6 B 21.23 7 C 21.24 8 21.25 9 D 21.25 10 21.26 10 21.27 10 21.28 21.29 21.29	_D	21.31	0	21.14
B 21/18 D 21/19 D 21/20 D 21/21 D 21/22 D 21/22 D 21/23 D 21/23 D 21/24 D 21/25 D 21/26 D 21/26 B 21/26 B 21/29	A	21.30	C	21.13
B 21/18 D 21/19 D 21/20 A 21/22 A 21/22 B 21/23 C 21/24 D 21/25 B 21/26 B 21/26 B 21/26	D	21,29	w	21.12
B 21/18 D 21/19 A 21.20 D 21.21 D 21.22 D 21.23 C 21.24 D 21.25 B 21.23 C 21.24 D 21.25 D 21.25	0	21.28	DJ .	21.11
B 21/18 D 21/19 D 21/20 A 21/20 D 21/21 D 21/22 B 21/22 C 21/24 D 21/26	0	21.27	A	21.10
B 21/18 D 21/19 D 21/20 A 21/20 D 21/21 A 21/22 A 21/23 C 21/24 D 21/25	A	21.26	В	21.09
B 21.18 D 21.19 A 21.20 D 21.21 A 21.22 B 21.23 C 21.24	В	21.25	B D	21.08
B 21/18 D 21/19 A 21.20 D 21.21 A 21.22 B 21.23	A	21.24	0	21.0
B D	A, C	21.23	6	21.00
B A	C	21.22	5 A	21.0
D	A	21.21	Ą	21.0
0	w	21.20	3 A	21.0
מ	0	21.19	2 D	21.0
		21.18	20	21.0

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21 Lifts and escalators (continued)

21.35 A 21.43 E 21.36 C 21.44 L 21.37 B 21.45 E 21.38 A 21.46 J 21.39 C 21.47 L 21.40 B 21.48 J 21.41 A 21.49 J		0	21.42
B C A	21.49	A	21,41
C A	21.48	5	21.40
A B C A	21.47	0	21.39
C C	21.46	A	21.38
C	21.45	To the second	21,37
A	21.44	C	21.36
	21.43	A	21,35

22 Tunnelling

STATES OF THE PROPERTY OF THE	AND THE RESIDENCE TO SECURE PROPERTY OF SECURE	AND
22.01	CO	22.19
22.02	C	22,20
22.03	ರಾ	22.21
22.04	С, ш	22.22
22.05	C	22.23
22.06	O	22.24
22.07	C	22.25
22.08	D	22.26
22.09	O	22.27
22.10	5	22.28
22.11	8, 6	22.29
22.12	03	22,30
22.13	ō	22.31
22.14	b	22,32
22.15	ÇO .	22.33
22.16	D	22.34
22.17	D	22,35
22.18	A	22,36