

MY REVISION NOTES 7-LEVELS ONSITE CONSTRUCTION

7-LEVELSTHE NEXT LEVEL QUALIFICATION

ONSITE CONSTRUCTION

- ♣ Plan and organise your revision
- Reinforce skills and understanding
- ♣ Practise exam-style questions



My revision planner

1 Health and safety in construction

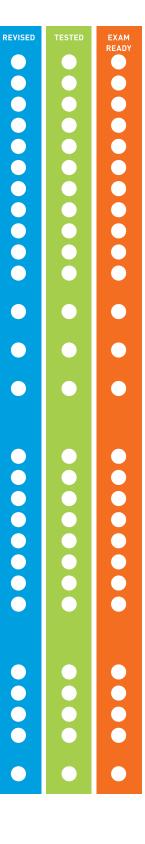
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Countdown to my exams

From September

- + Attend class in person or via the internet if necessary.
- + Listen and enjoy the subject; make notes.
- ◆ Make friends in class and discuss the topics with them.
- Watch the news.

6-8 weeks to go

- Start by looking at the specification make sure you know exactly what material you need to revise and the style of the exam. Use the revision planner on pages 4–6 to familiarise yourself with the topics.
- Organise your notes, making sure you have covered everything on the specification. The revision planner will help you group your notes into topics.
- Work out a realistic revision plan that will allow you time for relaxation. Set aside days and times for all the subjects that you need to study and stick to your timetable.
- Set yourself sensible targets. Break your revision down into focused sessions of around 40 minutes, divided by breaks. These Revision Notes organise the basic facts into short, memorable sections to make revising easier.

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2-6 weeks to go

- Read through the relevant sections of this book and refer to the exam tips, exam checklists, typical mistakes and key terms. Tick off the topics as you feel confident about them. Highlight those topics you find difficult and look at them again in detail.
- Test your understanding of each topic by working through the 'Now test yourself' questions in this book. Look up the answers online at www.hoddereducation.co.uk/ myrevisionnotesdownloads
- Make a note of any problem areas as you revise, and ask your teacher to go over these in class.
- Look at past papers. They are one of the best ways to revise and practise your exam skills. Write or prepare planned answers to the examstyle questions provided in this book. Check your answers online at www.hoddereducation.co.uk/ myrevisionnotesdownloads
- Use the revision activities to try out different revision methods. For example, you can make notes using mind maps, spider diagrams or flash cards.
- Track your progress using the revision planner and give yourself a reward when you have achieved your target.

One week to go

- Try to fit in at least one more timed practice of an entire past paper and seek feedback from your teacher, comparing your work closely with the mark scheme.
- Check the revision planner to make sure you haven't missed out any topics. Brush up on any areas of difficulty by talking them over with a friend or getting help from your teacher.
- Attend any revision classes put on by your teacher.
 Remember, your teacher is an expert at preparing people for exams.

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The day before the exam

- Flick through these Revision Notes for useful reminders, for example the exam tips, exam checklists, typical mistakes and key terms.
- Check the time (is it morning or afternoon?) and place of your exam. Keep in touch with other students in your class.
- Make sure you have everything you need for the exam – pens, highlighters and water.
- ♣ Allow some time to relax and have an early night to ensure you are fresh and alert.

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My exams
Paper 1
Date:
Time:
Location:
Paper 2
Date:
Time:
Location:

1 Health and safety in construction

1.1 Construction legislation and regulations

The role of legislation and regulations in the construction industry

Health and safety legislation and regulations are laws established to protect the health, safety and welfare of people who may be affected by work

The Health and Safety Executive (HSE) is an independent regulator that enforces health and safety legislation and regulations in the UK.

Legislation Current primary laws, sometimes known as Acts, created by UK legislative bodies (the UK Parliament, Scottish Parliament, Welsh Parliament and Northern Ireland Assembly)

Regulations Secondary laws made under the authority of the UK legislative bodies that created the primary laws; formal guidelines used to apply the principles of primary laws

Exam tip

It is unlikely that an examiner will expect you to know the dates when health and safety legislation and regulations were last revised. However, you should know the abbreviations for key Acts and regulations, for example the Health and Safety at Work etc. Act 1974 (HASAWA).

How legislation impacts employers, employees and construction projects

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The primary health and safety legislation in the UK is the Health and Safety at Work etc. Act 1974 (HASAWA). All employers and employees have responsibilities under the HASAWA to protect people from any harm that may be caused by work activities. The main objectives of HASAWA are to:

- secure the health, safety and welfare of people at work
- protect people other than those at work from risks to health and safety arising out of or in connection with work activities
- control the possession and use of highly flammable, explosive and dangerous substances.

Regulations relating to the provision of welfare facilities during construction work

REVISED



Under HASAWA, employers have a duty to provide welfare facilities for employees at their place of work. The Construction (Design and Management) (CDM) Regulations 2015 outline the minimum facilities that should be provided:

- drinking water
- toilets
- washing facilities
- rest facilities with heating
- + changing rooms with lockers, seating and facilities to dry and store clothing (separate rooms must be provided for men and women)
- facilities for pregnant women or nursing mothers to rest lying down.

Exam tip

You will be expected to describe the difference between health and safety legislation (for example HASAWA) and regulations (for example RIDDOR).

Bodies responsible for maintaining and updating legislation and regulations

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Health and safety legislation is regularly reviewed and updated to reflect changes in the construction industry. People with legal duties must ensure that the information they are using is current and correct. These changes are often made with guidance and support from:

- employers
- unions
- trade associations
- professional bodies.

The most up-to-date guidance about health and safety legislation and regulations can be found at the HSE's website www.hse.gov.uk/guidance/ index.htm.

The implications of not adhering to legislation and regulations

When legislation and regulations are not adhered to by duty holders in the workplace, there is an increased risk to workers and others of a near-miss incident, an injury, ill health or death.

When people suffer loss or injury because of an accident at work, they may seek compensation.

Failure to comply with **statutory law** is a criminal offence.

HSE inspectors have the power to enforce health and safety law by:

- entering a workplace without notice
- investigating when a complaint has been made or an accident has occurred
- speaking to employers and workers
- examining equipment and machinery
- taking samples, for example of sound and dust levels
- taking photographs and measurements
- making copies of records or other documentation
- removing substances and dismantling and removing articles.

If an HSE inspector believes that an employer has breached the law, they may

- a simple caution
- an improvement notice
- **+** a prohibition notice.

Failure to comply with improvement or prohibition notices can result in prosecution, fines and imprisonment.

Statutory and non-statutory documents in construction

Legislation comprises Acts of Parliament and regulations (statutory legislation) which have legal status and must be complied with.

However, there are also many non-statutory guidance documents that offer advice on good practice and compliance with the law, but unless stated they do not need to be followed.

One example of this is an Approved Code of Practice (ACOP).

Regulations and guidance documents

The overarching guidance documents (ACOPs) for working in the construction sector are covered in section 1.3.

Exam tip

The examiner will expect you to be able to list some trade associations related to onsite construction.

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Duty holders People with legal responsibilities under health and safety law

Statutory law Written law made by the UK Parliament; also known as an Act of Parliament

Improvement notice

Legal document issued by the HSE to an employer, instructing them to put right within a specific period of time any health and safety faults identified

Prohibition notice Legal document issued by the HSE to an employer that prevents work from continuing when there has been a serious breach of

the law and people are at

risk of immediate harm

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Approved Code of Practice (ACOP)

Document providing advice and guidance on how to comply with health and safety law, published by the

REVISED



The main regulations that control health, safety and welfare in construction are:

- ◆ Control of Substances Hazardous to Health (COSHH) Regulations 2002
- Provision and Use of Work Equipment Regulations (PUWER) 1998
- ♣ Manual Handling Operations Regulations (MHOR) 1992
- ♣ Personal Protective Equipment (PPE) at Work Regulations 1992
- ♣ Work at Height Regulations 2005
- Control of Noise at Work Regulations 2005
- Management of Health and Safety at Work Regulations 1999
- Construction (Design and Management) Regulations 2007
- Environmental regulations
- Waste management legislation.

Typical mistake

Many students misunderstand the difference between legislation, regulations and guidance. Make sure you learn the definition of each term and how they are distinct from each other.

Now test yourself

TESTED (



2 What actions will an HSE inspector take if they believe that an employer has breached health and safety law?

Revision activity

Create a table with two columns. List as many regulations as you can in the first column, then try to recall the purpose of each in the second column. Check your answers with the regulations covered in this chapter.

1.2 Public liability and employers' liability

The implications of public and employers' liability

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Public liability means employers have a legal responsibility to protect the public from injury, illness and death as a result of work activities.

Employers' liability refers to the responsibility of employers to protect their employees from harm in the workplace.

If a person is injured or suffers a loss in the workplace, they may seek financial compensation from the employer.

Under the Employers' Liability (Compulsory Insurance) Act 1969, all employers are required by law to insure against any liability for injury or disease to their employees.

There is no legal requirement for employers to have public liability insurance. However, it is recommended if the public are likely to be affected by work activities

Legal action can be taken against an employer under public and employers' liability to cover any loss of income, medical costs and compensation.

Revision activity

Create a table with two columns to show the costs of a workplace accident to an employer and to an injured person.

Liability To have a legal responsibility for something

Typical mistake

Claims for compensation should be made by the injured person – they are not made by the HSE.

1.3 Approved construction codes of practice

The use, purpose and legal status of ACOPs

REVISED



The HSE publishes documents online that contain information and guidance for duty holders, with practical ways to comply with the law.

The HSE's Legal (L) Series publications (also referred to as the CDM Series) comprise Approved Codes of Practice (ACOPs) that describe preferred methods and standards. However, ACOPs only have a semi-legal status and, unless stated, they do not have to be followed. If another practical method is used, it must meet or exceed the standards in the ACOP.

Typical mistake

There is no legal requirement for employers to follow ACOPs unless it is stated that they must do so. The legal status of HSE guidance and ACOPs is outlined on the Health and Safety Executive's website: www.hse.gov.uk/legislation/legal-status.htm.

Exam tip

You will not be expected to know all the ACOPs published by the HSE, but you should have a good understanding of those most relevant to onsite construction.

Now test yourself

3 What is another name for the HSE's L Series?

TESTED



1.4 Implications of poor health and safety performance

Poor health and safety performance in the construction industry can have financial, legal and ethical consequences, including a negative impact on the environment. Table 1.1 summaries how poor health and safety impacts different individuals.

Table 1.1 Impacts of poor health and safety

Employee	Employer	Client/customer	Public
 Accidents (such as slips, trips and falls) and near misses Ill health (such as asbestosis and silicosis) Injuries (e.g. from falls from height or onsite plant) Death (e.g. electrocution) Loss of work/income/quality of life Recovery/treatment/rehabilitation 	 Lower productivity Higher employee turnover An unmotivated workforce Financial problems, e.g. due to higher insurance premiums or legal costs Damage to business reputation Prosecution by the enforcement agencies, e.g. the Environment Agency and the HSE Damage to work and equipment 	 Legal action taken by the enforcement agencies, e.g. The Environment Agency and the HSE, for failing to comply with their health and safety duties Disputes with neighbours in the local community, e.g. due to noise, air and water pollution Ill health Death Injuries Damage to personal reputation Increased costs 	 Accidents and near misses Ill health Injuries Death Environmental issues Loss of work/ income/quality of life Damage to personal belongings or property

Typical mistake

Accidents do not just affect employers and their employees – they can also impact clients and customers, the general public and the business itself.

Addressing poor standards of health and safety in the workplace through control methods (for example, risk assessments, legislation) will reduce the number of injuries and fatalities, improve businesses reputation and performance, and reduce costs.

Risk assessment Process used to identify, control and record hazards in the workplace

Health and Safety Executive powers of prosecution

REVISED

If an employer does not follow health and safety legislation, the HSE may enforce HASAWA with its powers of prosecution, as outlined in section 1.1.

1.5 Development of safe systems of work

Revision activity

Research the HSF website for examples of cases when the powers of prosecution have been used.

Types of safe systems of work used in construction projects

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The HSE favours that employers use the following approach:

- Plan for specific health and safety objectives
- ♣ Do implement the plan
- Check that the plan is working and measure performance
- Act learn from any mistakes and put them right.

The Management of Health and Safety at Work Regulations 1999 contain a schedule known as the 'General principles of prevention'. This provides a hierarchy of control measures to manage risks to health and safety in the workplace (see Figure 1.1).

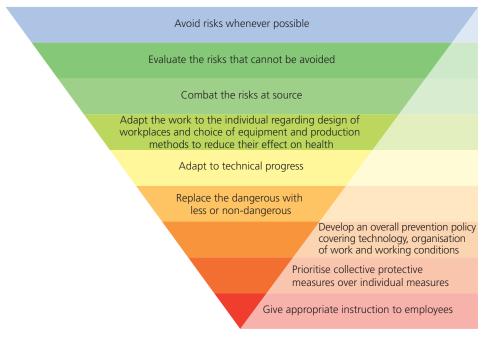


Figure 1.1 Hierarchy of control measures for managing health and safety risks (source: www.legislation.gov.uk)

Risk assessment

REVISED

Hazard Something with the potential to cause harm

A risk assessment that identifies hazards and determines measures to eliminate or control them is fundamental to reducing work-related accidents and ill health. A risk assessment should be a site- and task-specific structured examination of workplace activities, appropriate and proportional to the level of risk and the nature of the hazards.



Figure 1.2 Steps for completing a risk assessment

Exam tip

You should be able to distinguish between a risk assessment and a method statement and understand their importance in ensuring a safe system of work.

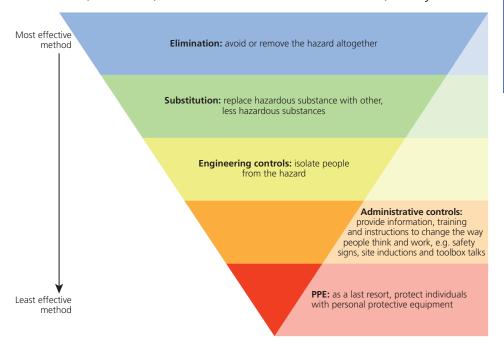
Exam tip

When preparing for your exam, make sure you understand the general principles of prevention - this will help you when answering questions about risk assessments and method statements.

COSHH assessment

The steps for completing a **COSHH** assessment are as follows:

- 1 Identify the hazardous substance, who is likely to be harmed by it and how this may occur.
- 2 Evaluate the risk of the hazard causing harm by considering the frequency of exposure to the substance and what effects it could have.
- 3 Decide what measures are necessary to prevent or control exposure to the hazard and how these will be maintained, and plan for emergencies.
- Record the assessment.
- Decide if, and when, the assessment needs to be reviewed, and by whom.



COSHH assessment

Process for controlling the use of hazardous substances in the workplace

REVISED

Typical mistake

Personal protective equipment (PPE) is the least effective method of controlling hazards. The most effective way is to avoid a hazard altogether, whenever possible.

Figure 1.3 Hierarchy of control measures to prevent harm from exposure to hazardous substances

Method statements

Method statements are documents prepared by employers that describe a logical sequence of steps to complete a work activity in a safe manner. A typical method statement describes:

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- hazards identified
- safe access and egress (exit)
- supervision needed
- hazardous substances and how to control them
- permit-to-work systems (if applicable)
- personal protective equipment
- emergency procedures
- environmental controls
- health and safety monitoring

workforce details.

Typical mistake

My Revision Notes: Onsite Construction T Level

There is no legal requirement for employers to write method statements, but it is recommended as part of a good management system.

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How to apply CDM

REVISED

Under the Construction (Design and Management) (CDM) Regulations 2015, principal contractors must engage with workers about their health, safety and welfare, and provide a site-specific induction and any other information and training they need.

Principal contractors Contractors appointed by a client to take the lead in planning, managing, monitoring and co-ordinating health and safety in a project involving more than one contractor

Permit to work

REVISED

Employers may adopt a permit-to-work system to manage high-risk activities on construction sites. This authorises people to carry out specific work tasks within a given timeframe and sets out the precautions required to complete the work safely.

Construction site signage

REVISED

The Health and Safety (Safety Signs and Signals) Regulations 1996 state that safety signs should be used when:

- there is a significant risk to health and safety that cannot be controlled in other ways
- they can reduce a risk further.

See section 1.12 for categories of safety sign.

Certification schemes and qualifications

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Construction Skills Certification Scheme (CSCS)

The Construction Skills Certification Scheme (CSCS) is accredited by the Construction Industry Training Board (CITB). CSCS cards prove that the card holder has a satisfactory level of health and safety awareness. They also show the card holder's relevant qualifications for their role on site.

Site Management Safety Training Scheme (SMSTS)

People with planning, organising, controlling and monitoring responsibilities are usually required by principal contractors and clients to hold this level of qualification.

Site Supervision Safety Training Scheme (SSSTS)

This qualification is designed for people with supervisory responsibilities or those preparing to start in this role.

Revision activity

Use a risk assessment template from the HSE's website to write a manual handling risk assessment for your place of work.

Now test yourself

- 4 List the **five** steps for completing a risk assessment.
- 5 What is the purpose of a method statement?

TESTED



1.6 Safety-conscious procedures

The benefits of safety-conscious procedures

Safety consciousness is an awareness of the presence of hazards and alertness to potential harm.

Safety-conscious procedures aim to promote and support safety consciousness within construction environments to keep people safe from harm.



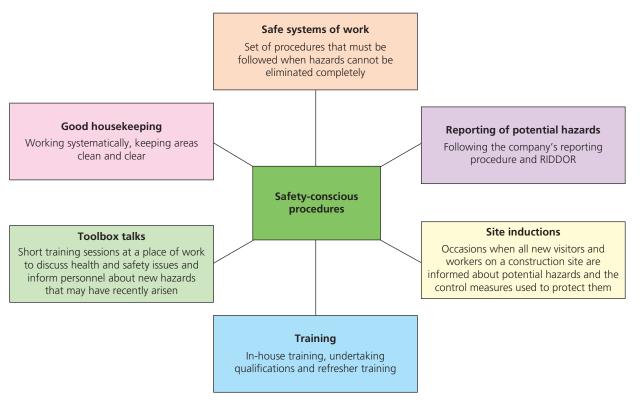


Figure 1.4 Safety-conscious procedures

The importance of safety-conscious procedures

When legal responsibilities under HASAWA are not followed, duty holders are essentially breaking the law and could be putting themselves, and others, at risk of harm. Employers are at risk of prosecution by the HSE and compensation claims by the injured person.

If an accident or a near-miss incident occurs, it may also result in:

- project timescales slipping
- + financial penalties due to missed deadlines
- damaged company reputation
- loss of business
- difficulties retaining staff and recruiting
- increased insurance premiums.

Typical mistake

A prohibition notice to close a construction site is not necessary every time a reportable accident occurs. For example, the HSE could issue a prohibition notice to prevent hazardous scaffolding being used until the faults have been rectified.

Exam tip

The examiner will expect you to know the difference between a hazard, a risk and a near-miss incident. You should also be able to list the hierarchy of control measures used to protect people from harm.

Now test yoursel:

6 What is a toolbox talk?

TESTED (

REVISED

1.7 Safety inspection of a work environment

Recording documents (risk assessments and method statements – RAMS)

If an employer has five or more employees, risk assessments must be recorded in writing.



There is no legal requirement for employers to produce method statements, however this is recommended as part of a good management system.

Typical mistake

It is still recommended that employers complete risk assessments when they have fewer than five employees. However, there is no legal duty for them to be written down

Methods used to inspect a workplace

REVISED

Employers have a responsibility to monitor health and safety arrangements in the workplace. Two types of monitoring system are typically used:

- + active monitoring completed before an accident or incident occurs
- reactive monitoring completed after an incident has taken place.

Several types of health and safety inspection can be implemented in the workplace. These include:

- health and safety audits (inspections of health and safety documentation)
- safety sampling (used to focus on a representative sample of a workplace standard)
- safety surveys (detailed investigations on a particular topic or issue)
- safety tours (scheduled full inspections)
- incident inspections (carried out after an accident, a near-miss or a case of ill health reported to the HSE)
- visual or sensory inspections (unscheduled inspections of the work area, not restricted by a checklist or template).

Some regulations place specific duties on employers to review a work area, a process or resources, for example lifting equipment and PPE. The HSE provides information and guidance on these regulations. It also publishes documents that can be used to record the results of inspections, such as HSE forms F2534 and F2533.

Exam tip

The examiner will expect you to demonstrate a sufficient depth and breadth of understanding in your answers. You could show this by explaining the different types of health and safety inspection.

1.8 Recording and reporting of safety incidents and near misses

Recording and reporting

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Workplace accidents and incidents must be reported following the employer's reporting policies. This ensures that they are dealt with properly and investigated to reduce the risk of them reoccurring.

Employers must record the details of any accident in an accident book and keep accident records for at least three years.

Accident book Formal document used to record details of accidents that occur in the workplace, whether to an employee or a visitor

RIDDOR puts duties on employers, the **self-employed** and people in control of work premises to report certain serious workplace accidents, occupational diseases and specified **dangerous occurrences** (near misses).

Typical mistake

Not all accidents need to be reported to the HSE – however, they must be logged in an accident book and records must be kept for three years.

Self-employed State of working for oneself rather than an employer; a self-employed person is responsible for paying their own tax and National Insurance contributions on any earnings

Dangerous occurrences

Incidents that could have caused harm, injury or ill health

7 Under which regulations do certain types of incident need to be reported to the HSE?

Make sure you understand the definition of dangerous occurrences, so that you can provide examples if

Exam tip

necessary.

Revision activity

Research RIDDOR on the HSE website. List the different types of injury, disease and dangerous occurrence that are reportable under RIDDOR.

1.9 Emergency procedures for unsafe situations

Unsafe situations

REVISED



Under the CDM Regulations, employers have a duty to plan for emergencies on construction sites.

Under the Regulatory Reform (Fire Safety) Order 2005, employers also have a duty to plan for emergencies on other sites such as offices, factories and warehouses.

Lone working Employees working by themselves or without direct or close supervision

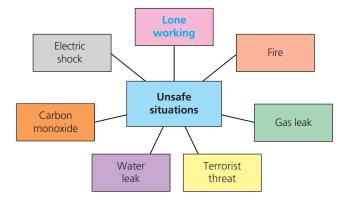


Figure 1.5 Examples of unsafe situations

Emergency procedures to follow if unsafe situations occur

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Gas leak

The Gas Industry Unsafe Situations Procedure (GIUSP) and Gas Safety (Installation and Use) Regulations (GSIUR) 1998 state that the following actions should be taken in the event of a gas leak:

- Turn off the emergency control valve (ECV).
- Open doors and windows.
- Call the national gas emergency number.
- Do not turn any power or light switches on or off.
- ♣ Do not light any sort of flame.
- Do not use any appliances.

Evacuations

Safe evacuation of the site should follow the designated emergency escape route to the assembly point. A register of workers in attendance must be completed.

Electric shock

Assess the situation, isolate the supply and call for help.

Injuries

- + Check that you and the injured person are not in any danger and, if possible, make the situation safe.
- Call for help.
- Carry out basic first aid.

Fire

In the event of a fire in the workplace, workers must follow their employer's procedures. The main steps are as follows:

- Raise the alarm and inform others.
- Walk quickly, following the directional signs, to the closest available emergency exit. Make sure you close all the fire doors behind you. Do not use any lifts between floors.
- 3 Only attempt to tackle a small fire if it is blocking your safe exit and if you are trained to use the equipment.
- 4 Report to the assembly point and stay there until you are told to leave.
- 5 Call the emergency services.

Fire extinguishers and their uses are summarised in Table 1.2.

Table 1.2 Fire extinguishers and their uses

Type of extinguisher	Colour of label	Fire classification
Water	Red	Class A
Dry powder	Blue	Class A
		Class B
		Class C
		Class D
		Electrical
Foam	Cream	Class A
		Class B
Carbon dioxide (CO ₂)	Black	Class B
		Electrical
Wet chemical	Yellow	Class A
		Class F

Exam tip

There are several different types of regulations mentioned in this section – make sure you can distinguish between them.

Typical mistake

Foam extinguishers should not be used on electrical or Class F fires.

8 What classification of fires can a wet chemical extinguisher be used on?



1.10 Types of PPE

Purpose and correct use of PPE

REVISED (



When the principles of prevention are applied to mitigate (reduce) the risk of harm, personal protective equipment (PPE) is always considered a last resort because it only protects the user.

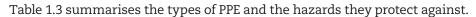


Table 1.3 Types of PPE

Body part protected	Hazards	Types of PPE	Correct use
Ears	Noise	 Ear defenders Ear muffs Ear plugs Canal caps/semi-insert earplugs 	Ear protection should reduce noise levels so that you are still able to communicate while wearing it. Ear protectors are manufactured with a single number rating (SNR) system, which allows the acoustic pressure on your ears to be calculated. Disposable foam ear plugs should be fully inserted in the ear to work properly and disposed of after each use.
Eyes	+ Sparks + Dust + Chemicals + Debris	 Goggles Safety spectacles Face screens Face shields Full-face visors Sunglasses 	 Eye protection should be: compatible with other PPE worn adjustable stored correctly to prevent damaging the lenses.
Feet and legs	 Slips Falling objects Objects (e.g. nails) penetrating the sole 	 Safety trainers, shoes, boots and Wellingtons with toecaps and protective mid-soles Chainsaw and foundry boots Knee pads Kneeling pads 	 Footwear should: have a good grip for different surfaces be replaced when it becomes damaged. The risk assessment will identify which footwear should be worn.
Hands and arms	 + Cuts and abrasions + Impacts + Chemicals + Temperature extremes + Biological agents + Vibration 	 Anti-vibration gloves Nitrile foam coated gloves Gloves with cuffs Gauntlets Protective arm sleeves Elbow pads 	Care should be taken to select the correct type of gloves to protect against hazards. They must not create further risks, such as entanglement in machinery, when used.
Head and neck	 Falling objects Hair entanglement Chemicals Adverse weather 	 Hard hats Bump caps Snoods Hair nets 	Hard hats should be square on your head with the peak facing forwards. Avoid wearing caps or beanies underneath hard hats. Avoid marking hats with paint or pens (the chemicals may damage them). Bump caps should only be worn when there is a very low risk of bumping your head.
Lungs (respiratory system)	 Dust Vapours Mists Gases Atmospheres with low or no oxygen 	Respiratory protective equipment (RPE): disposable half-mask respirators/dust masks reusable half-mask respirators/dust masks with a filter full-face mask respirators/dust masks respirators/dust masks powered respirators with a mask/hood or helmet breathing apparatus (BA)	Masks should form a good seal around the user's face to protect them properly. The type of masks and filters used should reflect the hazards. Employees should understand when and how to replace respirator filters. Masks should be stored correctly to prevent them being contaminated with hazardous substances.

Body part protected	Hazards	Types of PPE	Correct use
Whole body	 Chemicals Temperature extremes Adverse weather Dust Metal splashes Falling from height 	 Aprons Overalls Boiler suits Chemical suits High-visibility clothing Harness 	Whole-body protective equipment must be worn according to the manufacturer's instructions and should not cause a risk of entanglement with equipment or machinery. Contaminated PPE should be cleaned or disposed of properly and never mixed with personal clothing.

Typical mistake

Although employers are responsible for providing PPE free of charge, it is employees who are responsible for taking care of it and informing their employer when it needs to be replaced.

1.11 First-aid facilities

First-aid facilities in the work area

REVISED



The Health and Safety (First Aid) Regulations 1981 place legal duties on all employers to provide adequate and appropriate first-aid equipment, facilities and people to assist their employees if they are injured or fall ill at work.

Employers must:

- carry out a workplace-specific first-aid assessment to determine their
- provide first-aid kits for their workers (including lone workers)
- appoint a person to take charge of their first-aid arrangements and to call the emergency services when necessary
- appoint a trained first-aider
- provide staff training, information and instruction.

Exam tip

The examiner will expect you to understand the arrangements for first aid beyond a first-aid kit.

Typical mistake

Medicine should not be kept in a first-aid kit.

1.12 Warning signs for the main groups of hazardous substance

Categories of safety signs

REVISED



The main categories of safety sign are listed in Table 1.4.

Table 1.4 Categories of safety sign

Type of safety sign	Description
Mandatory	Tells you that something <i>must</i> be done, e.g. eye protection must be worn
Safe condition	Shows directions to areas of safety and medical assistance in case of emergency
Fire assembly point	

Type of safety sign	Description
Prohibition	Tells you that something <i>must not</i> be done, e.g. do not extinguish with water
Warning	Makes you aware of nearby danger, e.g. overhead load
Fire fighting	Marks the location of fire-fighting equipment and fire-alarm activation points

Typical mistake

Students often confuse prohibition and mandatory signs:

- Prohibition signs are red and forbid certain types of behaviour, for example 'No access for unauthorised persons'.
- → Mandatory signs are blue and prescribe specific behaviour, for example 'Safety harness must be worn'.

CLP Regulations safety signs

REVISED

Manufacturers, importers, distributors and other users of chemicals have legal duties under the Classification, Labelling and Packaging (CLP) Regulations 2010 to use appropriate safety signs for labelling and packaging of hazardous substances and waste – as shown in Table 1.5.

Table 1.5 CLP Regulations safety signs

Safety sign	Meaning	Encountered when using
Explosive	Explosive, self-reactive	Gas
Flammable	 Flammable gases, solids, liquids and aerosols Self-heating, self-reactive Contact with water creates flammable gas 	 Expanding foam Nail-gun canisters Solvent cement Paint stripper

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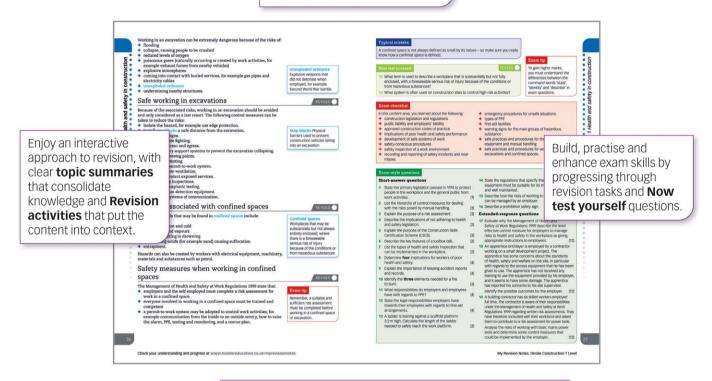
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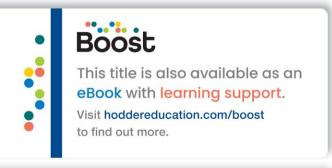
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