

## **Overview**

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components and equipment for plant or machinery operations, setting up, operating and shutting down plant or machinery for carrying out extraction work

This standard is for people working independently to operate plant or machinery to extract, ground, face and loose materials or commodities and can be used by operatives, supervisors and managers

### Performance criteria

### You must be able to:

- P1 interpret the given operating information relating to the use of plant or machinery and confirm its relevance
- P2 organise with others the sequence in which the work is to be carried out
- P3 comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe and healthy work practices
- P4 request resources to sustain plant or machinery operations to complete the programme of work
- P5 select plant or machinery resources for the methods of work and operations to be carried out
- P6 comply with organisational procedures to minimise the risk of damage to the work and surrounding area
- P7 comply with the given contract information to carry out the work efficiently to the required specification
- P8 complete the work within the allocated time, in accordance with the programme of work

Knowledge and understanding  You need to know and understand:	Performance Criteria 1	
	Inter	pretation of information
	K1	the organisational procedures developed to report and rectify inappropriate <b>information</b> and unsuitable <b>resources</b> , and how they are implemented
	K2	the types of <b>information</b> , their source and how they are interpreted
	K3	the organisational procedures to solve <b>problems</b> with the <b>information</b> and why it is important they are followed
	Perf	ormance Criteria 2
	Orga	anise with others
You need to know and understand:	K4 K5 K6	<b>communication</b> of ideas between team members organisation of <b>resources</b> in conjunction with the progress of work the <b>skills</b> required to carry out the work
	Perf	ormance Criteria 3
	Safe	work practices
You need to know and understand:	K7	the level of understanding operatives must have of <b>information</b> for relevant, current <b>legislation</b> , <b>Approved Codes of Practice and official guidance</b> and how it is applied
	K8	how emergencies should be responded to and who should respond
	K9	the organisational <b>security procedures</b> for plant and/or machinery, tools, equipment and personal belongings
	K10	what the accident reporting procedures are and who is responsible for making the report
	K11	why, when and how <b>health and safety control equipment</b> should be used
	K12	how to comply with environmentally responsible work practices to meet the requirements of current <b>legislation and official guidance</b>

## Operate plant or machinery to extract

# Performance Criteria 4 Request resources

## You need to know and understand:

K13 the organisational procedures for requisitioning consumables and other resources

# Performance Criteria 5 Selection of resources

## You need to know and understand:

- K14 the characteristics, quality, uses, sustainability, limitations and defects associated with plant **resources** and how defects should be rectified
- K15 how the **resources** should be used and how any **problems** associated with the **resources** are reported
- K16 the organisational procedures to select **resources**, why they have been developed and how they are used
- K17 the hazards associated with the resources and methods of work and how they are overcome

# Performance Criteria 6 Minimise the risk of damage

## You need to know and understand:

- K18 how to **protect work** from damage and the purpose of protection
- K19 why **disposal of waste** should be carried out safely and how it is achieved

## Operate plant or machinery to extract

## **Performance Criteria 7**

## Meet the contract specification

## You need to know and understand:

- K20 how **methods of work**, to meet the specification, are carried out and **problems** reported
- K21 how **maintenance** of plant and/or machinery, tools and equipment is carried out

## Performance Criteria 8

### Allocated time

## You need to know and understand:

K22 what the **programme** is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

## Operate plant or machinery to extract

#### **Additional Information**

Scope/range related to performance criteria

#### **Performance Criteria 1**

1 interpretation of drawings, specifications, schedules, risk assessments and manufacturers' information related to the plant or machinery operations and the work to be carried out

#### **Performance Criteria 2**

- 2 organisation of own work
- 3 communication with team members and other associated occupations about the plant or machinery operation and the work to be carried out

### **Performance Criteria 3**

- 4 avoidance of risk by complying with the given safety information relating to at least four of the following
  - 4.1 methods of work
  - 4.2 safe use of health and safety control equipment
  - 4.3 safe use and storage of plant or machinery
  - 4.4 safe use and storage of tools and equipment
  - 4.5 specific risks to health

### **Performance Criteria 4**

follow organisational procedures for the requisition of consumables, materials and other resources

### **Performance Criteria 5**

- 6 selection of resources associated with own work
  - 6.1 attachments, tools and ancillary equipment

### **Performance Criteria 6**

- 7 protection of the work and its surrounding area from damage
- 8 prevent damage and maintain a clean work space
- 9 disposal of waste in accordance with current legislation

## Operate plant or machinery to extract

#### **Performance Criteria 7**

- 10 demonstration of work skills to check, adjust, communicate, manoeuvre, position, extract, form, remove and load
- 11 use and maintain hand tools, ancillary equipment and/or accessories
- 12 operate plant or machinery to extract ground, face and loose materials or commodities to given working instructions relating to one of the following categories
  - 12.1 excavators
  - 12.2 loading shovels
  - 12.3 skid steer loaders
  - 12.4 motorised scrapers
  - 12.5 trenchers
  - 12.6 draglines
  - 12.7 dozers
- 13 shut down and secure plant or machinery

#### **Performance Criteria 8**

14 completion of own work within the estimated, allocated time to meet the needs of other occupations and/or client

## Operate plant or machinery to extract

Scope/range related to knowledge and understanding

#### Communication

1 discussions, sketches, electronic data and briefings

## Disposal of waste

2 environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance

### **Emergencies**

- 3 operative's response to situations in accordance with organisational authorisation and personal skills when involved with
  - 3.1 fires, spillages, injuries
  - 3.2 emergencies relating to occupational activities

### **Hazards**

4 those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance

### Health and safety control equipment

- 5 identified by the principles of protection for occupational use, types and purpose of each type, work situations and general work environment
  - 5.1 collective protective measures
  - 5.2 local exhaust ventilation (LEV)
  - 5.3 personal protective equipment (PPE)
  - 5.4 respiratory protective equipment (RPE)

#### Information

6 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and current regulations governing the operation of plant and machinery for extraction work

## Legislation, Approved Codes of Practice and official guidance

this relates to the operative's responsibilities regarding potential accidents, health hazards and the environment whilst working in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting

## Operate plant or machinery to extract

#### **Maintenance**

8 operative care of plant and machinery, hand tools, ancillary equipment and accessories

### Methods of work

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method/area of work and materials used to
  - 9.1 identify the characteristics of the plant and machinery used for extraction operations
  - 9.2 carry out function checks for the extraction operation
  - 9.3 identify the area to be extracted
  - 9.4 carry out pre-operational checks for obstructions, stability, safety and security of the work and surrounding area
  - 9.5 identify geological, environmental and material changes and report
  - 9.6 check to avoid damage to structures and utilities service apparatus
  - 9.7 recognise and determine when specific skills and knowledge are required and report accordingly
  - 9.8 extract, remove and load materials and commodities safely and securely
  - 9.9 form and remove stockpiles
  - 9.10 travel on public highways
  - 9.11 shut down and secure plant and machinery
  - 9.12 use hand tools, ancillary equipment and accessories
- 10 team work and communication
- 11 needs of other occupations associated with operating plant or machinery to extract ground, loose materials and commodities

#### **Problems**

- 12 those arising from information, resources and methods of work
  - 12.1 own authority to rectify
  - 12.2 organisational reporting procedures

## Operate plant or machinery to extract

## **Programme**

- 13 types of progress charts, timetables and estimated times
- 14 organisational procedures for reporting circumstances which will affect the work programme

#### **Protect work**

15 protect work against damage from general workplace activities, other occupations and adverse weather conditions

#### Resources

- 16 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and specialist
  - 16.1 consumables, lubricants, fuels
  - 16.2 attachments and extraction aids
  - 16.3 hand tools, ancillary equipment and accessories
- 17 identify weight, bearing, pressure, quantity, length and area associated with the method/procedure to operate plant and machinery to extract ground and loose materials

## **Security procedures**

18 site, workplace, company and operative

## **Skills**

19 own occupation and occupations related to the work

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