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## Overview

This standard is about

- 1 interpreting information
- 2 adopting safe and healthy working practices
- 3 selecting materials, components and equipment
- 4 preparing for and reinstating excavations and highway surfaces

### Performance criteria

- You must be able to:*
- P1 interpret the given information relating to the work and resources to confirm its relevance
  - P2 comply with the given, relevant legislation and official guidance to carry out your work and maintain safe and healthy work practices
  - P3 select the required quantity and quality of resources for the methods of work
  - P4 comply with organisational procedures to minimise the risk of damage to the work and surrounding area
  - P5 comply with the given contract information to carry out the work efficiently to the required specification
  - P6 complete the work within the allocated time, in accordance with the programme of work

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### Knowledge and understanding

*You need to know and understand:*

#### Performance Criteria 1

##### Interpretation of information

- K1 the organisational procedures developed to report and rectify inappropriate **information** and unsuitable **resources**, and how they are implemented
- K2 the types of **information**, their source and how they are interpreted
- K3 the organisational procedures to solve **problems** with the **information** and why it is important they are followed

#### Performance Criteria 2

##### Safe work practices

*You need to know and understand:*

- K4 the level of understanding operatives must have of **information** for relevant, current **legislation and official guidance** and how it is applied
- K5 how **emergencies** should be responded to and who should respond
- K6 the organisational **security procedures** for tools, equipment and personal belongings
- K7 what the accident reporting procedures are and who is responsible for making the report
- K8 why, when and how **health and safety control equipment** should be used

#### Performance Criteria 3

##### Selection of resources

*You need to know and understand:*

- K9 the characteristics, quality, uses, sustainability, limitations and defects associated with the **resources** and how defects should be rectified
- K10 how the **resources** should be used and how any **problems** associated with the **resources** are reported
- K11 the organisational procedures to select **resources**, why they have been developed and how they are used
- K12 the **hazards** associated with the **resources** and **methods of work** and how they are overcome

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### Performance Criteria 4

#### Minimise the risk of damage

*You need to know and understand:*

- K13 how to **protect work** from damage and the purpose of protection
- K14 why **disposal of waste** should be carried out safely and how it is achieved

### Performance Criteria 5

#### Meet the contract specification

*You need to know and understand:*

- K15 how **methods of work**, to meet the specification, are carried out and **problems** reported
- K16 how **maintenance** of tools and equipment is carried out

### Performance Criteria 6

#### Allocated time

*You need to know and understand:*

- K17 what the **programme** is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

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### Additional Information

#### Scope/range related to performance criteria

##### **Performance Criteria 1**

- 1 interpretation of drawings, specifications, schedules, risk assessments, method statements and manufacturers' information related to the work to be carried out

##### **Performance Criteria 2**

- 2 avoidance of risk by complying with the given information relating to the following
  - 2.1 methods of work
  - 2.2 safe use of health and safety control equipment
  - 2.3 safe use and storage of materials, tools and equipment
  - 2.4 specific risks to health

##### **Performance Criteria 3**

- 3 selection of resources associated with own work
  - 3.1 materials, components and fixings
  - 3.2 tools and equipment

##### **Performance Criteria 4**

- 4 protection of the work and its surrounding area from damage
- 5 minimise damage and maintain a clean work space
- 6 disposal of waste in accordance with current legislation

##### **Performance Criteria 5**

- 7 demonstration of work skills to backfill, consolidate, lay, compact, position, secure and finish
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 reinstate excavations and highway surfaces to given working instructions relating to at least two of the following
  - 9.1 sub-grades, sub-bases, road-bases
  - 9.2 cold lay bituminous
  - 9.3 warm lay bituminous
  - 9.4 hot lay bituminous
  - 9.5 concrete
  - 9.6 modular

##### **Performance Criteria 6**

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

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### Scope/range related to knowledge and understanding

#### **Disposal of waste**

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

#### **Emergencies**

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

#### **Hazards**

- 3 those identified by risk assessment, method of work, manufacturers' technical information, statutory regulations and official guidance

#### **Health and safety control equipment**

- 4 identified by the principles of protection for occupational use, types and purpose of each type, work situations and general work environment
  - 4.1 collective protective measures
  - 4.2 personal protective equipment (PPE)
  - 4.3 respiratory protective equipment (RPE)
  - 4.4 local exhaust ventilation (LEV)

#### **Information**

- 5 drawings, specifications, schedules, risk assessments, method statements, manufacturers' information and current regulations governing excavations and reinstatement on highways

#### **Legislation and official guidance**

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

#### **Maintenance**

- 7 operative care of hand tools and/or portable power tools and ancillary equipment

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### **Methods of work**

- 8 application of knowledge for safe and healthy work practices, procedures and skills relating to the method/area of work and materials used to:
  - 8.1 confirm the type of ground structure for reinstatement (bituminous, concrete, modular, natural)
  - 8.2 reinstate and compact backfill, sub-grades, sub-bases, road bases, pavement bases for the relevant type of ground structure
  - 8.3 protect service apparatus and sub-structures during reinstatement
  - 8.4 reinstate the relevant type of ground surface, pavement surface, specialist surface treatment, kerbs, edge restraints, street ironwork and pavement markings
  - 8.5 dispose of surplus materials
  - 8.6 use hand tools, power tools and equipment
- 9 team work and communication
- 10 needs of other occupations associated with reinstatement of excavations and highway surfaces

### **Problems**

- 11 those arising from information, resources and methods of work
  - 11.1 own authority to rectify
  - 11.2 organisational reporting procedures

### **Programme**

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

### **Protect work**

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

### **Resources**

15 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist:

15.1 new and re-usable materials, sub-base, road-base and pavement surface

15.2 cold-lay, warm-lay and hot-lay bituminous materials

15.3 sands, jointing materials

15.4 concrete, blocks and flags

15.5 natural soil based materials

15.6 hand and/or powered tools and equipment

16 methods of calculating quantity, length, area and wastage associated with the method/procedure to reinstate excavation and highway surfaces

### **Security procedures**

17 site, workplace, company and operative



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<b>Developed by</b>	ConstructionSkills
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<b>Originating organisation</b>	ConstructionSkills
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<b>Original URN</b>	VR374
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<b>Relevant occupations</b>	Road Construction Operatives
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<b>Suite</b>	Construction Operations and Civil Engineering Services (Construction)
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<b>Key words</b>	Flexible-pavement; Sub-base; Dry-lean, Bituminous-surface; Cold-lay; Warm-lay; Hot-lay; Road base; Kerbs; Edge restraints; Street ironwork
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