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## Overview

This standard is about preparing and erecting brickwork and blockwork and/or structures of local materials, incorporating arches, curves, chimneys, battered and decorative features, interpreting information, adopting safe, healthy and environmentally responsible work practices, and selecting, preparing and using materials, components, tools and equipment

This standard is for people working in the occupational area of Trowel Occupations and can be used by operatives, supervisors and managers

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## 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**

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

K9 how to comply with environmentally responsible work practices to meet current **legislation and official guidance**

### Performance Criteria 3

#### Selection of resources

K10 the characteristics, quality, uses, sustainability, limitations and defects associated with the **resources** and how defects should be rectified

K11 how the **resources** should be used and how any **problems** associated with the **resources** are reported

K12 the organisational procedures to select **resources**, why they have been developed and how they are used

K13 the **hazards** associated with the **resources** and **methods of work** and how they are overcome

### Performance Criteria 4

#### Minimise the risk of damage

K14 how to **protect work** from damage and the purpose of protection

K15 why **disposal of waste** should be carried out safely and how it is achieved

### Performance Criteria 5

#### Meet the contract specification

K16 how **methods of work**, to meet the specification, are carried out and problems reported

K17 how **maintenance** of tools and equipment is carried out

### Performance Criteria 6

#### Allocated time

K18 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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**Scope/range**

**Performance Criteria 1**

1 interpretation of drawings, specifications, schedules, method statements, risk assessments 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 at least four of the following

2.1 methods of work

2.2 safe use of health and safety control equipment

2.3 safe use of access equipment

2.4 safe use, storage and handling of materials, tools and equipment

2.5 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 maintain a clear and tidy work space

6 disposal of waste in accordance with current legislation

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### **Performance Criteria 5**

7 demonstration of work skills to measure, check, mark-out, lay, position and secure

8 use and maintain hand and power tools, and equipment

9 erect masonry in brick and block and/or local materials to given working instructions, to form architectural and decorative features, including forming joint finishes, for at least three of the following

9.1 arch (rough ringed, axed, gauged)

9.2 chimney stack

9.3 fireplace

9.4 wall with flush, projecting or decorative features

9.5 wall curved on plan

9.6 wall curved in elevation

9.7 wall splayed on plan

### **Performance Criteria 6**

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

**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, methods of work, manufacturers' technical information, statutory regulations and official guidance

**Health and safety control equipment**

4 identified by the principles of prevention 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, current legislation, schedules, method statements, risk assessments, manufacturers' information, oral and written instructions, sketches, electronic data, official guidance and current regulations governing buildings associated with the erection of masonry to form architectural and decorative structures

## **Legislation and official guidance**

6 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 and storage of materials by manual handling and mechanical lifting

## **Maintenance**

7 operative care of hand and power tools, and equipment

## **Methods of work**

8 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to

8.1 erect cavity walling and solid walling using brick, blocks and thin joint blocks

8.2 erect walls in local styles using local materials

8.3 work overhand

8.4 position, install and secure fixings and cramps

8.5 position and secure wall ties including spacing particularly around openings and movement joints

8.6 form and maintain the integrity of cavities

8.7 install masonry support angles

8.8 form and install weep holes and vents

8.9 form arches (rough ringed, axed, gauged)

8.10 form chimney stacks

8.11 form fireplaces

8.12 form walls flush, projecting and with decorative features

8.13 form walls curved on plan and check with trammel, templates and bay moulds

8.14 form walls splayed on plan and check with templates and bay moulds

8.15 form walls curved and ramped in elevation and set out and check with trammels and profiles

8.16 prop and support structures

8.17 install movement joints



- 8.18 install wind posts
- 8.19 cut bricks, blocks and local materials
- 8.20 complete and remove temporary works
- 8.21 form joint finishes
- 8.22 select and install vertical and horizontal reinforcement
- 8.23 position, fix and bed damp-proof barriers, cloak systems and cavity trays
- 8.24 position, bond and tape insulation materials
- 8.25 install and maintain the integrity of fire barriers and breaks
- 8.26 mix mortar
- 8.27 provide information for Building Information Modelling (BIM)
- 8.28 recognise and determine when specialist skills and knowledge are required and report accordingly
- 8.29 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
- 8.30 identify and follow the installation quality requirements
- 8.31 work with, around and in close proximity to plant and machinery
- 8.32 use hand and power tools, and equipment
- 8.33 work at height
- 8.34 use access equipment
- 9 team work and communication
- 10 needs of other occupations associated with erecting masonry to form architectural and decorative structures

### **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 productivity targets and time scales
- 13 how times are estimated
- 14 organisational procedures for reporting circumstances which will affect the work programme

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### **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/or specialist

16.1 bricks, blocks, mortars, frames, insulation, damp-proof barriers, cloak systems, lintels and ties

16.2 components and fixings

16.3 hand and power tools, and equipment

17 confirm resources and materials conform with the specification

18 methods of calculating quantity, length, area and wastage of materials associated with the method and procedure to erect masonry to form architectural and decorative structures

### **Security procedures**

19 site, workplace, company, operative and vehicles

<b>Developed by</b>	Construction Skills
<b>Version Number</b>	4
<b>Date Approved</b>	February 2019
<b>Indicative Review Date</b>	February 2022
<b>Validity</b>	Current
<b>Status</b>	Original
<b>Originating Organisation</b>	ConstructionsSkills
<b>Original URN</b>	VR49
<b>Relevant Occupations</b>	Bricklayers and Mason
<b>Suite</b>	Trowel Occupations (Construction); Heritage Skills (Construction)
<b>Keywords</b>	Arches; Chimney stacks; Fireplaces; Battered work; Decorative features; Wind posts; Brickwork; Blockwork; Wall-ties; Splayed on plan; Curved on plan