

## Repair, maintain and alter masonry structures

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### Overview

This standard is about repairing and maintaining existing brick and/or block and/or structures of local materials and styles, 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

## Repair, maintain and alter masonry structures

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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

Repair, maintain and alter masonry structures

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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

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### 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

## 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

### **Performance Criteria 5**

- 7 demonstration of work skills to measure, mark-out, cut, remove, lay, position and secure
- 8 use and maintain hand and power tools, and equipment
- 9 prepare, repair and maintain existing brick and/or block masonry and/or local material structures to given working instructions for at least three of the following
  - 9.1 match existing materials
  - 9.2 continue existing bonding
  - 9.3 match existing quality of structure
  - 9.4 form openings
  - 9.5 prop existing walls and floors

Repair, maintain and alter masonry structures

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9.6 form internal and external angles

**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 repair and maintenance of masonry 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,

## Repair, maintain and alter masonry structures

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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 prepare, repair and maintain existing masonry structures in bricks, blocks and thin joint blocks or local materials and styles

8.2 identify materials and components and restore structures to original state

8.3 form joint finishes

8.4 form openings

8.5 prop existing walls and floors

8.6 form and maintain the integrity of cavities

8.7 position, fix and bed damp-proof barriers, cloak systems and cavity trays

8.8 form and install weep holes and vents

8.9 form internal and external angles

8.10 position, bond and tape insulation materials

8.11 install and maintain the integrity of fire barriers and breaks

8.12 dress surfaces

8.13 form finishes

8.14 mix mortars

8.15 recognise and determine when specialist skills and knowledge are required and report accordingly

8.16 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance

8.17 identify and follow the installation quality requirements

8.18 work with, around and in close proximity to plant and machinery

8.19 use hand and power tools, and equipment

8.20 work at height

8.21 use access equipment

9 team work and communication

10 needs of other occupations associated with repairing and maintaining masonry structures

### **Problems**

11 those arising from information, resources and methods of work

11.1 own authority to rectify

11.2 organisational reporting procedures



## Repair, maintain and alter masonry structures

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### **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

### **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, natural stones, mortars, sand, lime, additives, frames, insulation, damp-proof barriers, cloak systems, lintels and ties
  - 16.2 fittings 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 repair and maintain masonry structures

### **Security procedures**

- 19 site, workplace, company, operative and vehicles

## Repair, maintain and alter masonry structures

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Relevant Occupations	Bricklayers and Mason
Suite	Accessing Operations and Rigging (Construction), Building Maintenance Multi-trades Repair and Refurbishment Operations, Bricklaying
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