
Overview

This standard is about conserving or restoring stonemasonry, brickwork or earthen structures, interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment, in accordance with organisational requirements which are equal to or exceed current statutory and legislative requirements This standard is for people working in the occupational area of heritage skills and can be used by operatives, supervisors and managers

Performance criteria

You must be able to:

Interpretation of information

P1 interpret the information relating to the work and resources as relevant to geographical location and climatic conditions to confirm its relevance for the following:

- drawings
- specifications
- schedules
- method statements
- risk assessments
- manufacturers' and suppliers' information
- oral, written or electronic instructions
- current regulations, legislation, official guidance and permits

Safe work practices

P2 comply with the relevant, current legislation and official guidance to carry out the work and maintain safe and healthy work practices relating to the following:

- methods of work
- safe use of appropriate personal protective equipment (PPE)
- safe use of access or lifting equipment
- safe use, storage and handling of materials, tools and equipment
- safe use of health and safety control equipment
- specific risks to occupational health and safety including mental health awareness
- specific risks associated with hazardous or asbestos containing materials
- specific risks associated with, heat, particulates, gas and electricity associated with processes, equipment and materials

Selection of resources

P3 select the required quantity and quality of resources for the methods of work for:

- materials and components
- tools and equipment

Minimise the risk of damage

P4 comply with organisational procedures to minimise the risk of damage to the work and surrounding area by:

- taking relevant steps to protect the work and its surrounding area from accidental or unintended damage
- working with an awareness of the environment in liaison with other occupations

- maintaining a safe, clear and tidy work area
- disposing of waste in accordance with current legislation

Meet the contract specification

P5 comply with the contract information to conserve or restore stonemasonry, brickwork or earthen structures efficiently to the required specification by:

- demonstrating work skills to:

- measure
- mark out
- remove
- rake out
- renew
- shape
- shore
- prop
- strut
- plumb
- level
- fit
- finish

- position and secure

- using and maintaining hand and power tools and ancillary equipment
- preparing, conserving, repairing or refurbishing existing stonemasonry, brickwork or earthen structures to working instructions, for the following:

- replication of existing structures
- stabilisation of existing structures
- preparation of mortars appropriate to the existing
- joint finishing
- surface finishes

Allocated time

P6 complete the work within the estimated, allocated time, taking account of climatic conditions, in accordance with organisational procedures, the programme of work and to meet the needs of other occupations and/or client

Knowledge and understanding

You need to know and understand:

P1 Interpretation of information

K1 why organisational procedures have been developed and how they are implemented

K2 types of information, their source and how they are interpreted in relation to:

- drawings
- specifications
- schedules
- method statements
- risk assessments
- manufacturers' and suppliers' information
- contractual information
- current legislation, regulations, official guidance and permits including but not limited to listed buildings and scheduled monuments
- conservation reports and plans
- oral, written or electronic instructions

K3 the importance of organisational procedures to solve problems with the information, and why it is important to follow them

K4 information for relevant, current legislation, official guidance and site-specific requirements and how it is applied

P2 Safe work practices

K5 how emergencies should be responded to in accordance with organisational authorisation and personal skills in relation to:

- fires and the types of fire extinguishers and how and when they are used in relation to water, CO₂, foam and powder
- spillages and injuries
- emergencies relating to occupational activities
- identification of and reporting of hazardous substances including but not limited to asbestos containing materials and lead carbonate

K6 the organisational and site-specific security procedures for tools, plant and equipment in relation to:

- site
- workplace
- vehicles

- company
- operatives
- clients
- the general public

K7 how to report risks and hazards identified by the following:

- methods of work
- risk assessments
- personal assessment
- manufacturers' technical information
- statutory regulations
- official guidance
- Control of Substances Hazardous to Health (COSHH)

K8 the accident reporting procedures and who is responsible for making the report

K9 why, when and how health and safety control equipment identified by the principles of prevention should be used in relation to:

- collective protective measures
- personal protective equipment (PPE)
- respiratory protective equipment (RPE)
- local exhaust ventilation (LEV)

K10 how to comply with environmentally responsible work practices to meet current legislation and official guidance when dealing with potential accidents, health hazards and the environment whilst working in the workplace in relation to:

- below ground level
- confined spaces
- working at height
- tools, plant and equipment
- materials and substances
- moving and storing materials by manual handling and mechanical lifting

P3 Selection of resources

K11 why the characteristics, quality, uses, sustainability, suitability, limitations and defects associated with the resources are important and how defects should be reported

K12 why sustainable and ethical work practices and materials should be adopted

K13 the organisational procedures to select resources, why they have been developed and how they are used
K14 how to confirm the resources and materials conform with the specification

K15 how the resources should be used and how any problems associated with the resources are reported in relation to:

- timber, props, bricks, stone, aggregates, cements, lime, mortar (lime and cements), earth, damp-proof barriers (slate), insulation, fixings, aftercare equipment and associated ancillary items
- hand and power tools and ancillary equipment
- digital equipment

K16 how to identify and report the hazards associated with the resources and methods of work and how they are managed with reference to method statements and risk assessments

K17 methods of calculating the quantity, length, area and wastage associated with the method and procedure to conserve or restore stonemasonry, brickwork or earthen structures

P4 Minimise the risk of damage

K18 how to protect work and its surrounding area from damage and the purpose of protection from general workplace activities, other operations and adverse weather conditions and how to minimise damage

K19 how to, and the importance of, carrying out the safe disposal of waste in accordance with the following:

- environmental responsibilities
- organisational procedures
- manufacturers' information
- suppliers' information
- statutory regulations
- official guidance

K20 why it is important to maintain a safe, clear and tidy work area

P5 Meet the contract specification

K21 how the methods of work to meet the specification are carried out, and how problems are identified and reported, by the application of knowledge for safe, healthy and environmental work practices, procedures and skills, relating to:

- how to erect and dismantle temporary support to structures
- how to replicate existing structures to agreed specification (honest repair)
- how to stabilise structures
- why it is important to joint finishes to agreed specification
- why it is important to prepare mortars to agreed specification
- how to render surfaces

- why it is necessary to validate appropriate ways in which the work should be carried out
- how to recognise sensitive areas
- why it is important to maintain heritage and archaeological integrity
- why it is important to maintain the principles of minimum intervention and reversible alterations
- why it is necessary to stop work at the point when conjecture begins and report findings
- how to record work carried out (written and digital formats)
- why it is necessary to recognise and report endangered and protected flora and fauna
- how to remove deteriorated and inappropriate materials
- why it is necessary to maintain the existing structure
- how to integrate existing and new constructional components or finishes
- how to store salvageable materials and structural components
- how to use all hand and power tools and ancillary equipment
- how to work at height using access equipment
- the relevance of an assessment of significance
- how to recognise specific requirements for:
 - structures of special interest
 - traditional construction
 - hard-to-treat buildings
 - historical significance
- how to work with, around and in close proximity to plant and machinery
- how and why operative care and maintenance of all hand and power tools and ancillary equipment is carried out

K22 the organisational procedures with respect to site behaviours, and recognise and action fairness, inclusion and respect within the working environment, and how to address and report inappropriate site behaviours

K23 the importance of methods of work, interpersonal relations and communication and the needs of other occupations associated with conserving or restoring stonemasonry, brickwork or earthen structures

P6 Allocated time

K24 the programme of work to be carried out including the estimated and allocated time, and why deadlines should be kept or reported if likely to be missed

K25 the types of progress charts, timetables and estimated times and the organisational procedures for reporting circumstances which will affect the work

COSVR547

Conserve or restore stonemasonry, brickwork or earthen structures



programme

COSVR547

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Developed by	CITB
Version Number	2
Date Approved	15 Dec 2022
Indicative Review Date	15 Dec 2027
Validity	Current
Status	Original
Originating Organisation	CITB
Original URN	COSVR547
Relevant Occupations	Bricklayers and Mason
Suite	Environmental Conservation, Heritage Skills (Construction)
Keywords	Conservation; Restoration; Repairing; Replication; Stabilisation; Brickwork; Stonemasonry; Earthen; Mortars
