

# COSVR554 – SQA Unit Code HG73 04

## Conserve or restore heavy timber framework



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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, renewing, repairing or refurbishing heavy timber framework in conservation or restoration projects

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### Performance criteria

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- 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 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 and when **personal protective equipment (PPE)** 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

#### 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

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### Performance Criteria 5

#### Meet the contract specification

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*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, method statements, and manufacturers' information related to the work to be carried out

#### Performance Criteria 2

- 2 avoidance of risk by following the given information relating to the following
  - 2.1 methods of work
  - 2.2 safe use of personal protective equipment (PPE)
  - 2.3 safe use of access equipment
  - 2.4 safe use and storage of materials, tools and equipment
  - 2.5 safe use of lifting equipment

#### 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 legislation

#### Performance Criteria 5

- 7 demonstration of work skills to measure, mark out, cut, joint, shape, fit, fix, finish, position, secure and record
- 8 use and maintain hand tools, hand-held portable power tools, power tools/machines and ancillary equipment
- 9 prepare, conserve, restore, renew, repair or refurbish heavy timber framework to given working instructions for at least one of the following
  - 9.1 walls (structural and/or non-structural)
  - 9.2 floors
  - 9.3 roofs

#### 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

#### **Information**

- 4 drawings, specifications, schedules, method statements, manufacturers' information, archaeological watching brief, historical conservation plans and charters, legislation and regulations governing buildings

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

- 5 this relates to the operative's responsibilities regarding potential accidents and health hazards 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

#### **Maintenance**

- 6 operative care of hand tools and/or hand-held portable power tools, power tools/machines and ancillary equipment

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### Methods of work

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- 7 application of knowledge for safe work practices, procedures and skills, relating to the method/area of work and materials used, to
    - 7.1 determine angles and lengths
    - 7.2 brace in-situ components to form or support structural and/or non-structural frameworks
    - 7.3 determine graded timber tree anatomy and growth rates, shrinkage and defects
    - 7.4 assess the milling and cleaving process
    - 7.5 determine how the conversion affects the end use
    - 7.6 form joints associated with structural and non-structural timber frame components
    - 7.7 work with lifting and hoisting equipment
    - 7.8 finish surfaces
    - 7.9 validate appropriate ways in which the work should be carried out
    - 7.10 recognise sensitive areas
    - 7.11 maintain heritage and archaeological integrity
    - 7.12 maintain the principles of minimum intervention and reversible alterations
    - 7.13 stop work at the point when conjecture begins and report findings
    - 7.14 record work carried out (written, photographic or digital)
    - 7.15 recognise and/or report endangered/protected flora and fauna
    - 7.16 remove deteriorated and/or inappropriate materials
    - 7.17 maintain existing structure
    - 7.18 integrate existing and new constructional components or finishes
    - 7.19 store salvageable components
    - 7.20 use hand tools, power tools and equipment
    - 7.21 work at height
    - 7.22 use access equipment
  - 8 team work and communication
  - 9 needs of other occupations associated with conserving or restoring heavy timber framework

### Personal protective equipment (PPE)

- 10 occupational use, types, purpose of each type and work situations

### 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

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### **Protect work**

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- 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 sustainability of standard and/or specialist
- 15.1 timber, pre-fabricated components
  - 15.2 pegs, metal fixings, glues and resin products
  - 15.3 mechanical lifting equipment
  - 15.4 hand tools and hand-held portable power tools, power tools/machines and ancillary equipment
- 16 methods of calculating quantity, length, area and wastage associated with the method/procedure to conserve or restore heavy timber framework.

### **Security procedures**

- 17 site, workplace, company and operative



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<b>Developed by</b>	ConstructionSkills
<b>Version number</b>	1
<b>Date approved</b>	March 2009
<b>Indicative review date</b>	July 2015
<b>Validity</b>	Current
<b>Status</b>	Original
<b>Originating organisation</b>	ConstructionSkills
<b>Original URN</b>	VR554
<b>Relevant occupations</b>	Carpenters and Joiners
<b>Suite</b>	Heritage Skills (Construction)
<b>Key words</b>	Conserve; Restore; Heavy; Timber; Framework; Walls; Floors; Roofs; Joints; Non-Structural