

## Overview

This standard is about setting out and marking out components for structural timber floors, wall and roofs, interpreting information, adopting safe, healthy and environmentally responsible work practices, and selecting and using materials, components, tools and equipment

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

## 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

## 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 the types of **fire extinguishers** and how and when they are used

K6 how **emergencies** should be responded to and who should respond

K7 the organisational **security procedures** for tools, equipment and personal belongings

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

K9 why, when and how **health and safety control equipment** should be used

K10 how to comply with environmentally responsible work practices to meet current **legislation and official guidance**

### Performance Criteria 3

#### Selection of resources

K11 the characteristics, quality, uses, sustainability, limitations and defects associated with the **resources** and how defects should be rectified

K12 how the **resources** should be used and how any **problems** associated with the **resources** are reported

K13 the organisational procedures to select **resources**, why they have been developed and how they are used

K14 the **hazards** associated with the **resources** and **methods of work** and how they are overcome

### Performance Criteria 4

#### Minimise the risk of damage

K15 how to **protect work** from damage and the purpose of protection

K16 why **disposal of waste** should be carried out safely and how it is achieved

### Performance Criteria 5

#### Meet the contract specification

K17 how **methods of work**, to meet the specification, are carried out and **problems** reported

K18 how **maintenance** of tools and equipment is carried out

### Performance Criteria 6

#### Allocated time

K19 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, cutting lists, 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 types and grades of timber

3.2 components and fixings

3.2 marking, testing and levelling 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, level and square

8 use and maintain marking, levelling and testing tools, hand and power tools

9 measure, set out and mark out to given working instructions:

9.1 timber wall and floor components (structural and non-structural)

9.2 timber pitched roof components

**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

**Fire extinguishers**

3 water, CO<sub>2</sub>, foam, powder and their uses

**Hazards**

4 those identified by risk assessment, methods of work, manufacturers' technical information, statutory regulations and official guidance

**Health and safety control equipment**

5 identified by the principles of prevention for occupational use, types and purpose of each type, work situations and general work environment

5.1 collective protective measures

5.2 personal protective equipment (PPE)

5.3 respiratory protective equipment (RPE)

5.4 local exhaust ventilation (LEV)

**Information**

6 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, oral and written instructions, sketches, electronic data, cutting lists and information relating to historical timber framing and post and beam construction, official guidance and current building regulations associated with setting out structural timber framework

### **Legislation and official guidance**

7 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**

8 operative care of marking, testing and levelling tools, hand and power tools

### **Methods of work**

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

9.1 set out and mark components for structural and non- structural timber walls, cross frames and floors

9.2 set out and mark components for timber trussed purlin roofs

9.3 use roofing squares and layout methods

9.4 apply the theorem of Pythagoras

9.5 determine geometrical angles

9.6 determine graded timber tree anatomy and growth rates, shrinkage and defects

9.7 assess the milling and cleaving process

9.8 mark out joints for components associated with structural timber framework

9.9 work with lifting equipment (an awareness of the necessity for user certification)

9.10 erect timber framework

9.11 use marking and levelling tools and equipment

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

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

9.14 identify and follow the installation quality requirements

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



## Set out structural timber framework

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- 9.16 use hand and power tools
- 9.17 work at height
- 9.18 use access equipment
- 10 team work and communication
- 11 needs of other occupations associated with setting out structural timber framework

### **Problems**

- 12 those arising from information, resources and methods of work
- 12.1 own authority to rectify
- 12.2 organisational reporting procedures

### **Programme**

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

### **Protect work**

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

### **Resources**

- 17 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist
- 17.1 timber, timber based products and composite materials
- 17.2 pegs and metal fixings
- 17.3 marking, testing and levelling tools and equipment
- 17.2 fittings and fixings
- 17.3 hand and power tools
- 18 confirm resources and materials conform with the specification including suitability, moisture and durability
- 19 methods of calculating quantity, length, area and wastage associated with the method and procedure to set out structural timber framework

**Security procedures**

20 site, workplace, company, operative and vehicles

## Set out structural timber framework

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<b>Developed by</b>	Construction Skills
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<b>Version Number</b>	3
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<b>Date Approved</b>	April 2019
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<b>Validity</b>	Current
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<b>Status</b>	Original
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<b>Originating Organisation</b>	ConstructionSkills
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<b>Original URN</b>	VR30
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<b>Relevant Occupations</b>	Carpenter and Joiner
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<b>Suite</b>	Wood Occupations (Construction); Heritage Skills (Construction)
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<b>Keywords</b>	Mark out; Walls; Floors; Pitched roofs
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