

Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment and preparing, constructing and maintaining timber and proprietary formwork systems

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

Fabricate and maintain timber and proprietary formwork systems

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

K 1 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

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 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 clean work space

6 disposal of waste in accordance with current legislation

Performance Criteria 5

7 demonstration of work skills to measure, mark out, cut, position, secure, finish, remove and store

8 use and maintain hand tools, portable power tools and ancillary equipment

9 use and maintain three of the following saws: circular, bench, jig, reciprocating or alligator

10 fabricate and maintain the following timber formwork systems to given working instructions

10.1 panels

10.2 make ups

10.3 box-outs

10.4 stop ends

10.5 bolt boxes

11 assemble and maintain proprietary formwork systems to given working instructions with the addition of the following fabrications

11.1 proprietary panels

11.2 make ups

11.3 box-outs

11.4 stop ends

11.5 bolt boxes

Performance Criteria 6

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

Fabricate and maintain timber and proprietary formwork systems

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 local exhaust ventilation (LEV)

4.3 personal protective equipment (PPE)

4.4 respiratory protective equipment (RPE)

Information

5 drawings, specifications, schedules, method statements, risk assessments, manufacturers' and suppliers' information, official guidance and current regulations

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/storage of materials and by manual handling and mechanical lifting

Maintenance

7 operative care of hand tools, portable power tools and ancillary equipment

Methods of work

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

8.1 fabricate formwork systems for columns, walls, beams, soffits, kickers and pre-cast units

8.2 use and maintain three of the following saws: circular, bench, jig, reciprocating or alligator

8.3 maintain formwork systems for columns, walls, beams, soffits, kickers and pre-cast units

8.4 position and attach soldiers and walings

8.5 construct panels, make ups, box-outs, bolt boxes and stop ends

8.6 position and secure tie systems

8.7 apply protective coatings

8.8 recognise when formwork needs repair

8.9 attach safe lifting provision

8.10 lift and move fabricated timber and proprietary formwork

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

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

8.13 direct and guide the operations and movement of plant and machinery

Fabricate and maintain timber and proprietary formwork systems

- 8.14 use hand tools, portable power tools and equipment
- 8.15 work at height
- 8.16 use access equipment
- 9 team work and communication
- 10 needs of other occupations associated with the fabrication and maintenance of timber and proprietary formwork systems

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

Protect work

- 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 the sustainability of standard and/or specialist
 - 15.1 timber, timber sheets and non-timber based sheet material
 - 15.2 proprietary formwork and associated items
 - 15.3 saws
 - 15.4 tie systems
 - 15.5 soldiers and walings
 - 15.6 protective coatings
 - 15.7 fittings and fixings
 - 15.8 access equipment

Fabricate and maintain timber and proprietary formwork systems

15.9 hand tools, portable power tools and equipment

16 confirm resources and materials conform with the specification

17 methods of calculating quantity, length, area and wastage associated with the method/procedure to fabricate and maintain timber and proprietary formwork systems

Security procedures

18 site, workplace, company and operative

Fabricate and maintain timber and proprietary formwork systems

Developed by	Construction Skills
Version Number	2
Date Approved	May 2016
Indicative Review Date	May 2021
Validity	Current
Status	Original
Originating Organisation	ConstructionSkills
Original URN	VR509
Relevant Occupations	Carpenters and Joiners
Suite	Formwork (Construction)
Keywords	Make-ups; Kickers; Tie-systems; Walings; Timber; Box-outs; Bolt-boxes; Stop-ends