

# COSVR509 - SQA Unit Code FW18 04

## Fabricate and maintain timber and proprietary formwork systems



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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, constructing and maintaining timber and proprietary formwork systems

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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 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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*You need to know and understand:*

#### **Performance Criteria 5**

##### **Meet the contract specification**

- 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

*You need to know and understand:*

#### **Performance Criteria 6**

##### **Allocated time**

- 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 tools and 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, position, secure, finish, remove and store
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 fabricate and maintain timber formwork systems to given working instructions
  - 9.1 panels
  - 9.2 make ups
  - 9.3 box-outs
  - 9.4 stop ends
  - 9.5 bolt boxes
- 10 assemble and maintain proprietary formwork systems to given working instructions with the addition of the following fabrications
  - 10.1 proprietary panels
  - 10.2 make ups
  - 10.3 box-outs
  - 10.4 stop ends
  - 10.5 bolt boxes

##### Performance Criteria 6

- 11 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' and supplier's technical information, statutory regulations and official guidance

#### Information

- 4 drawings, specifications, schedules, method statements, manufacturers' and supplier's information and current regulations

#### 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 portable power tools and ancillary equipment

#### Methods of work

- 7 application of knowledge for safe work practices, procedures and skills, relating to the method/area of work and materials used, to
  - 7.1 fabricate formwork systems for columns, walls, beams, soffits, kickers and pre-cast units
  - 7.2 maintain formwork systems for columns, walls, beams, soffits, kickers and pre-cast units
  - 7.3 position and attach soldiers and walings
  - 7.4 construct make ups, box-outs, bolt boxes and stop ends
  - 7.5 position and secure tie systems
  - 7.6 apply protective coatings
  - 7.7 recognise when formwork needs repair
  - 7.8 attach safe lifting provision
  - 7.9 lift and move fabricated timber and proprietary formwork
  - 7.10 use hand tools, power tools and equipment
  - 7.11 work at height
  - 7.12 use access equipment
- 8 team work and communication
- 9 needs of other occupations associated with the fabrication and

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maintenance of formwork systems

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### **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

### **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 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 tie systems

15.4 soldiers and walings

15.5 protective coatings

15.6 fixtures and fittings

15.7 access equipment

15.8 hand and/or powered tools and equipment

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

### **Security procedures**

17 site, workplace, company and operative



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