

COSVR510 - SQA Unit Code H0X0 04

Erect and strike timber and proprietary formwork



Overview

This standard is about

- 1 interpreting information
- 2 adopting safe and healthy working practices
- 3 selecting materials, components and equipment
- 4 erecting and striking 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' and suppliers 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 erect and strike timber formwork to given working instructions for at least two of the following
 - 9.1 walls
 - 9.2 columns
 - 9.3 beams
 - 9.4 soffits
 - 9.5 bases
- 10 erect and strike proprietary formwork systems to given working instructions for at least one of the following
 - 10.1 climbing
 - 10.2 jumping
 - 10.3 slip form
 - 10.4 panel systems
 - 10.5 soldiers and/or walings

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' and supplier's 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 suppliers technical information, statutory regulations and official guidance

Information

- 4 drawings, specifications, schedules, method statements, manufacturers' and suppliers information

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 erect and strike formwork for walls, columns, beams, soffits, bases, kickers, stop ends and pre-cast units
 - 7.2 erect and strike proprietary climbing, jumping, slip form and panel systems
 - 7.3 attach and remove soldiers and walings
 - 7.4 attach and remove safe lifting provision
 - 7.5 position and strike box outs and bolt boxes, grout checks, level controls, angle fillets and features
 - 7.6 position, secure and remove tie systems
 - 7.7 apply release agents
 - 7.8 identify differences in concrete pressure
 - 7.9 use hand tools, power tools and equipment
 - 7.10 work at height
 - 7.11 use access equipment
- 8 team work and communication
- 9 needs of other occupations associated with erecting and striking 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 powered tools and equipment

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

Security procedures

17 site, workplace, company and operative

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