

# COSVR499 - SQA Unit Code H1RN 04

## Assemble cold formed steel frames



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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 and assembling load bearing /non-load bearing cold formed steel frames

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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, 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, 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
  - 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

##### Performance Criteria 3

- 3 selection of resources associated with own work
  - 4.1 materials, components and fixings
  - 4.2 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, align, cut, fit, finish, position and secure
- 8 use and maintain hand tools, portable power tools and ancillary equipment
- 9 prepare and assemble cold formed steel for at least one of the following to given working instructions
  - 9.1 wall frames
  - 9.2 floor frames
  - 9.3 support structures
  - 9.4 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, manufacturers' information 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, 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 prepare and assemble load/non load bearing wall frames, floor frames, support structures and roofs to the given specification
  - 7.2 set up the workstation prior to assembly
  - 7.3 use hand tools, power tools and equipment
  - 7.4 work at height
  - 7.5 use access equipment
- 8 team work and communication
- 9 needs of other occupations associated with assembling cold formed steel frames

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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 steel components, insulation materials, fixings, fittings, sheet materials

15.2 hand and/or powered tools and equipment

16 methods of calculating quantity, length, area and wastage associated with the method/procedure to assemble cold formed steel frames

### **Security procedures**

17 site, workplace, company and operative

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**Relevant occupations** Construction Operatives

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**Suite** Innovative/Modern Methods of Construction

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