

# COSVR249 - SQA Unit Code FW0M 04

## Erect and dismantle cantilever scaffolds



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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, erecting, dismantling cantilever scaffolds

# COSVR249 - SQA Unit Code FW0M 04

## Erect and dismantle cantilever scaffolds

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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

# COSVR249 - SQA Unit Code FW0M 04

## Erect and dismantle cantilever scaffolds

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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, when and how **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

# COSVR249 - SQA Unit Code FW0M 04

## Erect and dismantle cantilever scaffolds

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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

# COSVR249 - SQA Unit Code FW0M 04

## Erect and dismantle cantilever scaffolds

### Additional Information

#### Scope/range related to performance criteria

##### Performance Criteria 1

- 1 interpretation of plans, drawings and sketches, method statements, risk assessments, 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 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 materials, of tools and equipment

##### Performance Criteria 3

- 3 selection of resources associated with own work
  - 3.1 materials, components, fixings/anchors and ties
  - 3.2 tools and equipment
  - 3.3 access 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, set out, assemble, fix, position, secure and remove
- 8 use and maintain hand tools, ancillary equipment and access equipment
- 9 erect and dismantle at least one of the following cantilever scaffolds to given working instructions using either tube and fitting or system scaffold
  - 9.1 cantilever truss out
  - 9.2 cantilever drop
  - 9.3 cantilever fan

##### Performance Criteria 6

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

# COSVR249 - SQA Unit Code FW0M 04

## Erect and dismantle cantilever scaffolds

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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 plans, drawings and sketches, specifications, schedules, method statements, risk assessments, manufacturers' information, standards, regulations and official guidance associated with scaffolding work

#### **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, ancillary equipment and access equipment

# COSVR249 - SQA Unit Code FW0M 04

## Erect and dismantle cantilever scaffolds

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### **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 confirm the area to erect the cantilever scaffold
  - 7.2 confirm that the stability of the foundation/structure on which the scaffold will be erected and secured has been considered
  - 7.3 confirm the materials and component make-up (tube and fitting, systems scaffold)
  - 7.4 identify the differences between cantilever truss, cantilever drop and cantilever fan
  - 7.5 set out and prepare for the scaffold structure
  - 7.6 erect and secure the scaffold (needles, spurs and check fittings) for the use of other occupations
  - 7.7 dismantle and remove cantilever scaffold structures
  - 7.8 erect designed and un-designed scaffolds (limitations and formula)
  - 7.9 visually inspect fall protection equipment
  - 7.10 install and test anchors and ties
  - 7.11 use hand tools, and ancillary equipment
  - 7.12 work at height
  - 7.13 use access equipment
- 8 team work and communication
- 9 needs of other occupations associated with erecting and dismantling cantilever scaffolds

### **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

# **COSVR249 - SQA Unit Code FW0M 04**

## **Erect and dismantle cantilever scaffolds**

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### **Resources**

- 15 materials, components and equipment relating to types, quantity, quality, sizes and sustainability of standard and/or specialist
  - 15.1 tube and fitting
  - 15.2 systems scaffold
  - 15.3 associated materials (props, ropes, anchors, ties, boards, plates, beams, ladders, proprietary components etc.)
  - 15.4 hand tools and ancillary equipment
- 16 methods of calculating length and area associated with the method/procedure to erect and dismantle cantilever scaffolds

### **Security procedures**

- 17 site, workplace, company and operative



# COSVR249 - SQA Unit Code FW0M 04

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**Relevant occupations** Scaffolders, Stagers and Riggers

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**Suite** Accessing Operations and Rigging (Construction)

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**Key words** Cantilever; Scaffold, Erecting; Stability; Tube and fitting; Props, Ropes; Plates; Boards