

**Development pack**  
**National Occupational Standards**  
  
**for**  
  
**Trowel Occupations**  
**(Construction)**

**Review 2018**  
**As @ 141118 SO**  
**For Submission 281118**

(See 'Standard Template Update 2010 and 2011-12' for full details of generic template changes)

*190718 Wales 1x employer 1x employer representative organisation*

*020818 Scotland 3x employers*

*060818 Solihull 2x employer representative organisations*

*1<sup>st</sup> 171018 London 3x employers, 2x deliverers, 1x employer representative organisation*

*2<sup>nd</sup> 141118 London 4x employers, 2x deliverers, 1x employer representative organisation*

**Development Legend**

1<sup>st</sup> and 2<sup>nd</sup> Meeting – **Red**

3<sup>rd</sup> Meeting – **Green**

4<sup>th</sup> Meeting – **Blue**

5<sup>th</sup> Meeting – **Red underlined**

6<sup>th</sup> Meeting – **Green underlined**

7<sup>th</sup> Meeting – **Blue underlined**

*Suggestions from other occupational representatives in red italics*

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TC = template changes to be considered by employers

R = under review

SO = Signed off by employers

COSVR36

Prepare and mix and distribute concrete and mortars

**Overview**

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting, preparing and using materials, components, tools and associated equipment, preparing and mixing, by hand and mechanically, concrete and mortars

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

COSVR36

Prepare and mix and distribute concrete and mortars

### 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

## COSVR36

Prepare **and** mix **and distribute** concrete and mortars

### 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 ~~the types of fire extinguishers and how and when they are used~~????
- K6 how **emergencies** should be responded to and who should respond
- K7 the organisational **security procedures** for tools, equipment and personal belongings
- K8 what the accident reporting procedures are and who is responsible for making the report
- K9 why, when and how **health and safety control equipment** should be used
- K10 **how to comply with environmentally responsible work practices to meet current legislation and official guidance**

## COSVR36

Prepare **and** mix **and distribute** concrete and mortars

### Performance Criteria 3

#### Selection of resources

You need to know and understand:

- K11 the characteristics, quality, uses, sustainability, limitations and defects associated with the **resources** and how defects should be rectified
- K12 how the **resources** should be used and how any **problems** associated with the **resources** are reported
- K13 the organisational procedures to select **resources**, why they have been developed and how they are used
- K14 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:

- K15 how to **protect work** from damage and the purpose of protection
- K16 why **disposal of waste** should be carried out safely and how it is achieved

### Performance Criteria 5

#### Given contract information Meet the contract specification

You need to know and understand:

- K17 how **methods of work**, to meet the specification, are carried out and **problems** reported
- K18 how **maintenance** of tools and equipment is carried out

### Performance Criteria 6

#### Allocated time

You need to know and understand:

- K19 what the **programme** is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

## COSVR36

Prepare **and** mix **and distribute** concrete and mortars

### Additional Information

#### Scope/range related to performance criteria

#### 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 **at least four of** 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

- 3 **safe use of fire extinguishers, as appropriate to the fire**

#### Performance Criteria 3

- 4 selection of resources associated with own work
  - 4.1 materials, components **and fixings**
  - 4.2 tools and equipment

#### Performance Criteria 4

- 5 protection of the work and its surrounding area from damage
- 6 **minimise damage and** maintain a **clean** clear and tidy work space
- 7 disposal of waste in accordance with **current** legislation

#### Performance Criteria 5

- 8 demonstration of work skills to gauge, **and** mix **and distribute**
- 9 use and maintain hand, **tools, portable power tools**, mixing plant and equipment **and ancillary equipment**
- 10 gauge and mix mortars and/or concrete **and distribute** to given working instructions

#### Performance Criteria 6

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

## COSVR36

Prepare **and** mix **and distribute** concrete and mortars

### 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

**Fire extinguishers ???? – water, CO<sub>2</sub>, foam, powder and their uses**

#### 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 **protection prevention** for occupational use, types and purpose of each type, work situations and general work environment
  - 4.1 collective protective measures
  - 4.2 personal protective equipment (PPE)
  - 4.3 respiratory protective equipment (RPE)
  - 4.4 local exhaust ventilation (LEV)

#### Information

- 5 **drawings, specifications, current legislation, schedules, method statements, risk assessments**, manufacturers' information, oral and **for** written **instructions, sketches, electronic data, official guidance and current regulations governing buildings** associated with preparing, mixing and distributing concretes and mortars

#### 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 and storage of materials by manual handling and mechanical lifting

#### Maintenance

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



Prepare **and** mix **and distribute** concrete and mortars

**Methods of work**

- 8 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to
  - 8.1 gauge and mix concrete and mortars by hand **and mixer**
  - 8.2 **gauge and mix concrete and mortars mechanically**
  - 8.3 carry out pre-use checks on mechanical mixers
  - 8.4 **recognise types of concrete and mortar**
  - 8.5 **maintain consistency of mixes for strength, colour and texture**
  - ~~8.6 provide information for Building Information Modelling (BIM)~~
  - 8.7 **recognise and determine when specialist skills and knowledge are required and report accordingly**
  - ~~8.8 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance~~
  - ~~8.9 identify and follow the installation quality requirements~~
  - 8.10 **work with, around and in close proximity to plant and machinery**
  - ~~8.11 direct and guide the operations and movement of plant and machinery~~
  - 8.12 **transport and distribute concrete and mortar**
  - 8.13 use hand **tools**, **power tools**, mixing plant and equipment
  - 8.14 **work at height**
  - 8.15 **use access equipment**
- 9 team work and communication
- 10 needs of other occupations associated with preparing **and** mixing **and distributing** concrete and mortars

**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**, **productivity targets** and **time scales**
- 13 **how times are estimated times**
- 14 organisational procedures for reporting circumstances which will affect the work programme

**Protect work**

- 15 protect work against damage from general workplace activities, other

## COSVR36

### Prepare **and** mix **and distribute** concrete and mortars

occupations and adverse weather conditions

#### Resources

16 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist

16.1 aggregate, sand, lime, cement, water, additives

16.2 hand, **tools, portable** power tools, mixing plant, **transportation and distribution** ~~and associated~~ equipment

17 **confirm resources and materials conform with the specification**

18 methods of calculating quantity, volume, **length, width, area** and wastage **of materials** associated with the method and procedure to prepare, **and** mix **and distribute** concrete and mortar

#### Security procedures

19 site, workplace, company, operative and **vehicles**

COSVR36

Prepare **and** mix **and distribute** concrete and mortars

**Developed by** ConstructionSkills

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**Version number** 2 3

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**Date approved** ???

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**Indicative review date** ???

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**Validity** Current

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**Status** Original

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**Originating organisation** ConstructionSkills

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**Original URN** VR36

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**Relevant occupations** Bricklayers and Masons

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**Suite** Trowel Occupations (Construction)

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**Key words** Mechanical-mixing; Mixing-plant; Aggregate **Concrete; Mortar;**



# COSVR37

## Lay bricks and blocks to line

### Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting, preparing and using materials, components, tools and associated equipment and laying bricks and blocks to line and forming a joint finish.

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

# COSVR37

## Lay bricks and blocks to line

### Additional Information

#### Scope/range related to performance criteria

#### 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 at least four of 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

- ~~3 safe use of fire extinguishers, as appropriate to the fire~~

#### Performance Criteria 3

- 4 selection of resources associated with own work
  - 4.1 materials, components and fixings
  - 4.2 tools and equipment

#### Performance Criteria 4

- 5 protection of the work and its surrounding area from damage
- 6 minimise damage and maintain a clean clear and tidy work space
- 7 disposal of waste in accordance with current legislation

#### Performance Criteria 5

- 8 demonstration of work skills to measure, mark out, level, plumb and lay
- 9 use and maintain hand, tools, portable power tools and associated ancillary equipment
- 10 lay to line only and joint finish as required at least two of the following to given working instructions
  - 10.1 brickwork (to line only and joint finished as required)
  - 10.2 blockwork
  - 10.3 traditional and/or thin bed blocks (to line only and joint finished as required)
  - 10.4 local materials

#### Performance Criteria 6

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

# COSVR37

## Lay bricks and blocks to line

### 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

#### Fire extinguishers - ????

- 3 water, CO<sub>2</sub>, foam, powder and their uses

#### Hazards

- 4 those identified by risk assessment, methods of work, manufacturers' technical information, statutory regulations and official guidance

#### Health and safety control equipment

- 5 identified by the principles of protection prevention for occupational use, types and purpose of each type, work situations and general work environment
  - 5.1 collective protective measures
  - 5.2 personal protective equipment (PPE)
  - 5.3 respiratory protective equipment (RPE)
  - 5.4 local exhaust ventilation (LEV)

#### Information

- 6 drawings, specifications, current legislation, schedules, method statements, risk assessments, manufacturers' information, oral and written instructions, sketches, electronic data, official guidance and current regulations governing buildings associated with laying bricks, blocks and local materials to line

#### Legislation and official guidance

- 7 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 and storage of materials by manual handling and mechanical lifting

#### Maintenance

- 8 operative care of hand, tools, portable power tools and ancillary equipment

# COSVR37

## Lay bricks and blocks to line

### Methods of work

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method **and** area of work and materials used to
  - 9.1 lay to line common and facing bricks, **traditional blocks** and thin joint blocks
  - 9.2 lay to line local materials
  - 9.3 identify types of bricks and blocks
  - 9.4 ~~lay damp-proof courses and membranes (**cloak systems**, tanking, **gas proof membranes**)~~
  - 9.5 position, fix and bed damp-proof barriers, cloak systems and cavity trays
  - 9.6 form and maintain the integrity of cavities
  - 9.7 position, bond and tape insulation materials
  - 9.8 position and secure wall ties including spacing, particularly around openings and movement joints
  - 9.9 form and install weep holes and vents
  - 9.10 ~~position, level, plumb, fix and integrate brick soffit systems~~
  - 9.11 ~~install masonry support angles~~
  - 9.12 ~~install and maintain the integrity of fire barriers and breaks~~
  - 9.13 ~~install wind posts~~
  - 9.14 form a joint finish, including mechanical pointing systems
  - 9.15 ~~provide information for Building Information Modelling (BIM)~~
  - 9.16 recognise and determine when specialist skills and knowledge are required and report accordingly
  - 9.17 ~~determine specific requirements for structures of special interest, **traditional build (pre 1919)** and historical significance~~
  - 9.18 identify and follow the installation quality requirements
  - 9.19 work with, around and in close proximity to plant and machinery
  - 9.20 ~~direct and guide the operations and movement of plant and~~
  - 9.21 use hand, **tools**, **portable power tools** and **ancillary** equipment
  - 9.22 work at height
  - 9.23 use access equipment
- 10 team work and communication
- 11 needs of other occupations associated with laying bricks, **and blocks** **work** **and local materials to line**



# COSVR37

## Lay bricks and blocks to line

### Problems

12 those arising from information, resources and methods of work

12.1 own authority to rectify

12.2 organisational reporting procedures

### Programme

13 types of progress charts, timetables, productivity targets and time scales

14 how times are estimated times

15 organisational procedures for reporting circumstances which will affect the work programme

### Protect work

16 protect work against damage from general workplace activities, other occupations and adverse weather conditions

### Resources

17 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist

17.1 bricks, blocks, mortar, thin joint mixes, wall ties, DPC/DPM damp proof courses, damp proof membranes, cloak systems, cavity trays and insulation

17.2 fittings and fixings

17.3 hand, tools, portable power tools and associated equipment

18 confirm resources and materials conform with the specification

19 methods of calculating quantity, volume, length, area and wastage of materials associated with the method and procedure to lay bricks, and blocks and local materials to line

### Security procedures

20 site, workplace, company, operative and vehicles

## COSVR39

### Joint brick and block structures

#### Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting, preparing and using materials, components, tools and associated equipment, jointing and pointing brick, and block and local material structures

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

# COSVR39

## Joint brick and block structures

### Additional Information

#### Scope/range related to performance criteria

#### 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 at least four of 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
- 3 safe use of fire extinguishers, as appropriate to the fire

#### Performance Criteria 3

- 4 selection of resources associated with own work
  - 4.1 materials, components and fixings
  - 4.2 tools and equipment

#### Performance Criteria 4

- 5 protection of the work and its surrounding area from damage
- 6 minimise damage and maintain a clean clear and tidy work space
- 7 disposal of waste in accordance with current legislation

#### Performance Criteria 5

- 8 demonstration of work skills to measure, rake out, mix and joint
- 9 use and maintain hand, tools, portable power tools and associated ancillary equipment
- 10 joint and point masonry structures to given working instructions for at least one of the following
  - 10.1 new brickwork or blockwork
  - 10.2 existing brickwork or blockwork
  - 10.3 local materials

#### Performance Criteria 6

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

# COSVR39

## Joint brick and block structures

### 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

#### Fire extinguishers ????

- 3 water, CO<sub>2</sub>, foam, powder and their uses

#### Hazards

- 4 those identified by risk assessment, methods of work, manufacturers' technical information, statutory regulations and official guidance

#### Health and safety control equipment

- 5 identified by the principles of protection prevention for occupational use, types and purpose of each type, work situations and general work environment
  - 5.1 collective protective measures
  - 5.2 personal protective equipment (PPE)
  - 5.3 respiratory protective equipment (RPE)
  - 5.4 local exhaust ventilation (LEV)

#### Information

- 6 drawings, specifications, current legislation, schedules, method statements, risk assessments, manufacturers' information, oral and written instructions, sketches, electronic data, official guidance and current regulations governing buildings associated with creating joints in brick, block and local material structures

#### Legislation and official guidance

- 7 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 and storage of materials by manual handling and mechanical lifting

#### Maintenance

- 8 operative care of hand, tools, portable power tools and ancillary equipment

## Joint brick and block structures

### Methods of work

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to
  - 9.1 form jointed finishes in new masonry work
  - 9.2 rake out and form pointed finishes in existing masonry work
  - 9.3 mix jointing and pointing material
  - 9.4 form joint finishes by mechanical pointing systems
  - 9.5 form and install weep holes and vents
  - 9.6 provide information for Building Information Modelling (BIM)
  - 9.7 recognise and determine when specialist skills and knowledge are required and report accordingly
  - 9.8 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
  - 9.9 identify and follow the installation quality requirements
  - 9.10 work with, around and in close proximity to plant and machinery
  - 9.11 direct and guide the operations and movement of plant and machinery
  - 9.12 use hand, tools, portable power tools and equipment
  - 9.13 work at height
  - 9.14 use access equipment
- 10 team work and communication
- 11 needs of other occupations associated with jointing brick and block structures

### Problems

- 12 those arising from information, resources and methods of work
  - 12.1 own authority to rectify
  - 12.2 organisational reporting procedures

### Programme

- 13 types of progress charts, timetables, productivity targets and time scales
- 14 how times are estimated times
- 15 organisational procedures for reporting circumstances which will affect the work programme

### Protect work

- 16 protect work against damage from general workplace activities, other occupations and adverse weather conditions

## COSVR39

### Joint brick and block structures

#### Resources

17 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist

17.1 jointing and pointing mixes, sand, cement, lime mortars and additives

17.2 fittings and fixings

17.3 hand, tools, portable power tools and associated equipment

18 confirm resources and materials conform with the specification

19 methods of calculating quantity, length, area and wastage of materials associated with the method and procedure to joint brick, and block and local material structures

#### Security procedures

20 site, workplace, company, operative and vehicles



# COSVR40

## Erect masonry structures

### Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting, preparing and using materials, components, tools and associated equipment, preparing and erecting brickwork and blockwork and/or structures of local materials and styles

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



# COSVR40

## Erect masonry structures

### Additional Information

#### Scope/range related to performance criteria

#### 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 **at least four of** 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

- ~~3 **safe use of fire extinguishers, as appropriate to the fire**~~

#### Performance Criteria 3

- 4 selection of resources associated with own work
  - 4.1 materials, components and fixings
  - 4.2 tools and equipment

#### Performance Criteria 4

- 5 protection of the work and its surrounding area from damage
- 6 **minimise damage and** maintain a **clean** **clear and tidy** work space
- 7 disposal of waste in accordance with **current** legislation

#### Performance Criteria 5

- 8 demonstration of work skills to measure, mark-out, lay, position, **plumb**, **level** and secure
- 9 use and maintain hand, **tools, portable** power tools and **ancillary** equipment
- 10 erect masonry in brick and block and/or local materials to given working instructions for the following
  - 10.1 cavity wall structures
  - 10.2 blockwork structures
  - 10.3 solid wall structures
  - 10.4 door and window openings
  - 10.5 joint finishes
  - 10.6 **cills, capping or copings**

#### Performance Criteria 6

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

# COSVR40

## Erect masonry structures

### 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

#### Fire extinguishers - ????

- 3 water, CO<sub>2</sub>, foam, powder and their uses

#### Hazards

- 4 those identified by risk assessment, methods of work, manufacturers' technical information, statutory regulations and official guidance

#### Health and safety control equipment

- 5 identified by the principles of protection prevention for occupational use, types and purpose of each type, work situations and general work environment
  - 5.1 collective protective measures
  - 5.2 personal protective equipment (PPE)
  - 5.3 respiratory protective equipment (RPE)
  - 5.4 local exhaust ventilation (LEV)

#### Information

- 6 drawings, specifications, current legislation, schedules, method statements, risk assessments, manufacturers' information, oral and written instructions, sketches, electronic data, official guidance and current regulations governing buildings associated with the erection of masonry structures

#### Legislation and official guidance

- 7 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 and storage of materials by manual handling and mechanical lifting

#### Maintenance

- 8 operative care of hand, tools, portable power tools and ancillary equipment

### Methods of work

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to
  - 9.1 erect cavity walling and solid walling using brick and block and local materials
  - 9.2 erect walling of local style
  - 9.3 lay blocks (traditional and thin joint)
  - 9.4 determine brick and block bonds
  - 9.5 form and maintain the integrity of cavities
  - 9.6 install lintels
  - 9.7 install movement joints
  - 9.8 install wind posts
  - 9.9 cut bricks, blocks and local materials
  - 9.10 form joint finishes, including mechanical pointing systems
  - 9.11 form openings for doors and windows
  - 9.12 position, level, plumb, fix and integrate brick soffit systems
  - 9.13 position and fix cills, copings and capping's
  - 9.14 install masonry support angles
  - 9.15 prop and support structures
  - 9.16 complete and remove temporary works
  - 9.17 position, bond and tape insulation materials
  - 9.18 position, fix and bed damp-proof barriers, cloak systems and cavity trays and weep holes
  - 9.19 form and install weep holes and vents
  - 9.20 install and maintain the integrity of fire barriers and breaks
  - 9.21 position and secure wall ties including spacing, particularly around openings and movement joints
  - 9.22 mix mortar
  - 9.23 provide information for Building Information Modelling (BIM)
  - 9.24 recognise and determine when specialist skills and knowledge are required and report accordingly
  - 9.25 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
  - 9.26 identify and follow the installation quality requirements
  - 9.27 work with, around and in close proximity to plant and machinery

# COSVR40

## Erect masonry structures

9.28 ~~direct and guide the operations and movement of plant and machinery~~

9.29 use hand, ~~tools, portable~~ power tools and equipment

9.30 work at height

9.31 use access equipment

10 team work and communication

11 needs of other occupations associated with erecting masonry structures

### Problems

12 those arising from information, resources and methods of work

12.1 own authority to rectify

12.2 organisational reporting procedures

### Programme

13 types of ~~progress charts, timetables~~, productivity targets and time scales

14 ~~how times are~~ estimated times

15 organisational procedures for reporting circumstances which will affect the work programme

### Protect work

16 protect work against damage from general workplace activities, other occupations and adverse weather conditions

### Resources

17 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist

17.1 bricks, blocks, mortars, frames, insulation, damp-proof barriers, ~~cloak systems, cills, copings and capping's~~ lintels, fixings, ties

17.2 hand, ~~tools, portable~~ power tools and ~~associated~~ equipment

18 ~~confirm resources and materials conform with the specification~~

19 methods of calculating quantity, length, area and wastage of materials associated with the method and procedure to erect masonry structures

### Security procedures

20 site, workplace, company, operative and vehicles



# COSVR41

## Set out to form masonry structures

### Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting, preparing and using materials, components, tools and associated equipment to setting out to form masonry structures in brickwork, and blockwork and/or structures of local materials and styles

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

# COSVR41

## Set out **to form** masonry structures

### Additional Information

#### Scope/range related to performance criteria

#### 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 **at least of four** 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

~~3 safe use of fire extinguishers, as appropriate to the fire~~

#### Performance Criteria 3

- 4 selection of resources associated with own work
  - 4.1 materials, components and fixings
  - 4.2 tools and equipment

#### Performance Criteria 4

- 5 protection of the work and its surrounding area from damage
- 6 **minimise damage and** maintain a **clean** clear and tidy work space
- 7 disposal of waste in accordance with **current** legislation

#### Performance Criteria 5

- 8 demonstration of work skills to measure, mark out, level, plumb, position **transfer, transpose, fix** and secure
- 9 use and maintain hand, **tools, portable** power tools and setting out equipment
- 10 **determine dimensions and positions using line, level, depth, area, height and angle** to given working instructions **to establish** at least **four** of the following **lines**
  - 10.1 straight (180 degrees)
  - 10.2 right angles (90 degrees)
  - 10.3 obtuse angles (between 90 and 180 degrees including batters)
  - 10.4 acute angles (between 0 and 90 degrees)
  - 10.5 curves on plan
  - 10.6 curves in elevation
  - 10.7 openings

COSVR41

Set out **to form** masonry structures

**Performance Criteria 6**

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



# COSVR41

## Set out **to form** masonry structures

### 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

**Fire extinguishers** ???water, CO<sub>2</sub>, foam, powder and their uses

#### 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 **protection prevention** for occupational use, types and purpose of each type, work situations and general work environment
  - 4.1 collective protective measures
  - 4.2 personal protective equipment (PPE)
  - 4.3 respiratory protective equipment (RPE)
  - 4.4 local exhaust ventilation (LEV)

#### Information

- 5 drawings, specifications, current legislation, schedules, method statements, risk assessments, manufacturers' information, oral **and** written **instructions**, sketches, **electronic data, official guidance and current regulations governing buildings associated with setting out masonry structures**

#### 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 and storage of materials by manual handling and mechanical lifting

#### Maintenance

- 7 operative care of hand, **tools, portable power tools and** setting out equipment

## Set out to form masonry structures

### Methods of work

- 8 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to
  - 8.1 **measure and set out to form brick, traditional and thin joint blocks and masonry structures of local materials** on level and sloping ground
  - 8.2 **identify and mark datum points**
  - 8.3 **make trammels, templates and profiles**
  - 8.4 **mark straight lines, right angles, obtuse angles, acute angles, curves on plan, curves in elevation and openings**
  - 8.5 **set out using trammels, templates and profiles**
  - ~~8.6 **construct corner and position profiles**~~
  - 8.7 **plumb from ranging lines**
  - 8.8 **transfer lines and levels (spirit level, straight-edge water levels and laser level)**
  - 8.9 **determine convex and concave curves using pegs and line**
  - ~~8.10 **provide information for Building Information Modelling (BIM)**~~
  - 8.11 **recognise and determine when specialist skills and knowledge are required and report accordingly**
  - ~~8.12 **determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance**~~
  - 8.13 **identify and follow the installation quality requirements**
  - 8.14 **work with, around and in close proximity to plant and machinery**
  - ~~8.15 **direct and guide the operations and movement of plant and machinery**~~
  - 8.16 **use hand, tools, portable power tools and setting out equipment**
  - 8.17 **work at height**
  - 8.18 **use access equipment**
- 9 team work and communication
- 10 needs of other occupations associated with setting out masonry structures

### Problems

- 11 those arising from information, resources and methods of work
  - 11.1 **own authority to rectify**
  - 11.2 **organisational reporting procedures**

### Programme

# COSVR41

## Set out to form masonry structures

13 types of progress charts, timetables, productivity targets and time scales

14 how times are estimated times

15 organisational procedures for reporting circumstances which will affect the work programme

### Protect work

16 protect work against damage from general workplace activities, other occupations and adverse weather conditions

### Resources

17 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist

17.1 levels, lines, trammels, templates, profiles, tape measures, pegs, squares and fixings

17.2 hand, tools, portable power tools and setting out equipment

18 confirm resources and materials conform with the specification

19 methods of calculating distances, quantity, length, levels and diagonals, area and wastage of materials associated with the method and procedure to set out masonry structures

### Security procedures

20 site, workplace, company, operative and vehicles



# COSVR42

## Erect masonry cladding

### Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting, preparing and using materials, components, tools and associated equipment, preparing and erecting brickwork and blockwork and/or local material to pre-erected structures

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

# COSVR42

## Erect masonry cladding

### Additional Information

#### Scope/range related to performance criteria

#### 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 **at least four of** 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

- ~~3 **safe use of fire extinguishers, as appropriate to the fire**~~

#### Performance Criteria 3

- 4 selection of resources associated with own work
  - 4.1 materials, components and fixings
  - 4.2 tools and equipment

#### Performance Criteria 4

- 5 protection of the work and its surrounding area from damage
- 6 **minimise damage and** maintain a **clean** **clear and tidy** work space
- 7 disposal of waste in accordance with current legislation

#### Performance Criteria 5

- 8 demonstration of work skills to measure, mark-out, lay, position, **level**, **plumb**, **fit**, **fix** and secure
- 9 use and maintain hand, **tools, portable** power tools and **ancillary** equipment
- 10 erect brick and block and/or local material cladding to given working instructions, including the formation of door and window openings and joint finishes, for at least one of the following structures
  - 10.1 pre-erected timber frame
  - 10.2 pre-erected concrete
  - 10.3 pre-erected steel
  - 10.4 existing **masonry structure**

#### Performance Criteria 6

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

# COSVR42

## Erect masonry cladding

### 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

#### Fire extinguishers ????

- 3 ~~water, CO<sub>2</sub>, foam, powder and their uses~~

#### Hazards

- 4 those identified by risk assessment, methods of work, manufacturers' technical information, statutory regulations and official guidance

#### Health and safety control equipment

- 5 identified by the principles of ~~protection~~ prevention for occupational use, types and purpose of each type, work situations and general work environment
  - 5.1 collective protective measures
  - 5.2 personal protective equipment (PPE)
  - 5.3 respiratory protective equipment (RPE)
  - 5.4 local exhaust ventilation (LEV)

#### Information

- 6 drawings, specifications, current legislation, schedules, method statements, risk assessments, manufacturers' information, oral ~~and~~ written ~~instructions~~, sketches, ~~electronic data~~, ~~official guidance~~ and ~~current regulations governing buildings associated with the erection of masonry cladding~~

#### Legislation and official guidance

- 7 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 and storage of materials by manual handling and mechanical lifting

#### Maintenance

- 8 operative care of hand, ~~tools, portable~~ power tools and ~~ancillary~~ equipment

### Methods of work

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to
  - 9.1 erect brick, **traditional block** and thin joint block cladding to pre-erected timber frame, concrete, steel and existing structures
  - 9.2 clad structures using local materials
  - ~~9.3 lay bricks, blocks (traditional and thin joint)~~
  - 9.4 install brick slips
  - 9.5 position and secure wall ties including spacing, particularly around openings and movement joints
  - 9.6 form and maintain the integrity of cavities
  - 9.7 install and maintain the integrity of fire barriers and breaks
  - 9.8 form joint finishes
  - 9.9 form openings for doors and windows
  - 9.10 position, level, plumb, fix and integrate brick soffit systems
  - 9.11 install masonry support angles
  - 9.12 prop and support structures
  - 9.13 ~~complete and~~ remove temporary structures
  - 9.14 position, **fix and bed** damp-proof barriers, **cloak systems and cavity trays**
  - 9.15 form and install weep holes and vents
  - 9.16 position, bond and tape insulation materials
  - 9.17 install wind posts
  - 9.18 mix mortar
  - ~~9.19 provide information for Building Information Modelling (BIM)~~
  - 9.20 recognise and determine when specialist skills and knowledge are required and report accordingly
  - ~~9.21 determine specific requirements for structures of special interest, **traditional build (pre 1919) and historical significance**~~
  - 9.22 identify and follow the installation quality requirements
  - 9.23 work with, around and in close proximity to plant and machinery
  - ~~9.24 direct and guide the operations and movement of plant and **machinery**~~
  - 9.25 use hand, **tools, portable** power tools and equipment
  - 9.26 work at height



# COSVR42

## Erect masonry cladding

9.27 use access equipment

10 team work and communication

11 needs of other occupations associated with erecting masonry cladding

### Problems

12 those arising from information, resources and methods of work

12.1 own authority to rectify

12.2 organisational reporting procedures

### Programme

13 types of ~~progress charts, timetables~~, productivity targets and time scales

14 how times are estimated ~~times~~

15 organisational procedures for reporting circumstances which will affect the work programme

### Protect work

16 protect work against damage from general workplace activities, other occupations and adverse weather conditions

### Resources

17 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist

17.1 bricks, blocks, mortars, frames, insulation, damp-proof barriers, ~~brick slips, cloak systems, cavity closers, fire breaks~~ lintels, fixings and ties

17.2 hand ~~tools, portable~~ power tools and ~~associated~~ equipment

18 confirm resources and materials conform with the specification

19 methods of calculating quantity, length, area and wastage of materials associated with the method and procedure to erect masonry cladding

### Security procedures

20 site, workplace, company, operative and ~~vehicles~~



# COSVR44

## Erect thin joint masonry structures

### Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting, preparing and using materials, components, tools and associated equipment, preparing and erecting thin joint block masonry structures

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

# COSVR44

## Erect thin joint masonry structures

### Additional Information

#### Scope/range related to performance criteria

#### 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 **at least four of** 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

- ~~3 **safe use of fire extinguishers, as appropriate to the fire**~~

#### Performance Criteria 3

- 4 selection of resources associated with own work
  - 4.1 materials, components and fixings
  - 4.2 tools and equipment

#### Performance Criteria 4

- 5 protection of the work and its surrounding area from damage
- 6 **minimise damage and** maintain a **clean** **clear and tidy** work space
- 7 disposal of waste in accordance with current legislation

#### Performance Criteria 5

- 8 demonstration of work skills to measure, mark out, cut, prepare, lay, position and secure
- 9 use and maintain hand **tools, portable** power tools and **ancillary** equipment
- 10 erect thin joint masonry block structures to given working instructions for at least three of the following
  - 10.1 cavity wall structures
  - 10.2 solid wall structures
  - 10.3 form door and window openings
  - 10.4 mix jointing compounds

#### Performance Criteria 6

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

# COSVR44

## Erect thin joint masonry structures

### 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

**Fire extinguishers** ???water, CO<sub>2</sub>, foam, powder and their uses

#### 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 **protection prevention** for occupational use, types and purpose of each type, work situations and general work environment
  - 4.1 collective protective measures
  - 4.2 personal protective equipment (PPE)
  - 4.3 respiratory protective equipment (RPE)
  - 4.4 local exhaust ventilation (LEV)

#### Information

- 5 drawings, specifications, current legislation, schedules, method statements, risk assessments, manufacturers' information, oral **and** written **instructions**, sketches, **electronic data, official guidance and current regulations** **governing buildings associated with the erection of thin joint masonry structures**

#### 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 and storage of materials by manual handling and mechanical lifting

#### Maintenance

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

# COSVR44

## Erect thin joint masonry structures

### Methods of work

- 8 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to
  - 8.1 erect cavity walling and solid walling using thin joint blocks
  - 8.2 determine thin joint block bonds
  - 8.3 level bed (course one)
  - 8.4 check plumb
  - 8.5 form and maintain the integrity of cavities
  - 8.6 form openings for doors and windows
  - 8.7 position, level, plumb, fix and integrate brick soffit systems
  - 8.8 install masonry support angles
  - 8.9 position, fix and bed, damp-proof barriers, cloak systems and cavity trays
  - 8.10 position and secure wall ties including spacing, particularly around openings
  - 8.11 form and install movement joints
  - 8.12 install and maintain the integrity of fire barriers and breaks
  - 8.13 form and install weep holes and vents
  - 8.14 position, bond and tape insulation materials
  - 8.15 install wind posts
  - 8.16 mix jointing compound
  - 8.17 provide information for Building Information Modelling (BIM)
  - 8.18 recognise and determine when specialist skills and knowledge are required and report accordingly
  - 8.19 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
  - 8.20 identify and follow the installation quality requirements
  - 8.21 work with, around and in close proximity to plant and machinery
  - 8.22 direct and guide the operations and movement of plant and use hand, tools, portable power tools and equipment
  - 8.23 work at height
  - 8.24 use access equipment
- 9 team work and communication
- 10 needs of other occupations associated with erecting thin joint masonry structures

# COSVR44

## Erect thin joint masonry structures

### Problems

- 11 those arising from information, resources and methods of work
  - 11.1 own authority to rectify
  - 11.2 organisational reporting procedures

### Programme

- 13 types of progress charts, timetables, productivity targets and time scales
- 14 how times are estimated times
- 15 organisational procedures for reporting circumstances which will affect the work programme

### Protect work

- 16 protect work against damage from general workplace activities, other occupations and adverse weather conditions

### Resources

- 17 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist
  - 17.1 blocks, jointing compounds, frames, insulation, damp-proof barriers, cloak systems, lintels, fixings, ties
  - 17.2 hand, tools, portable power tools and associated equipment
- 18 confirm resources and materials conform with the specification
- 19 methods of calculating quantity, length, area and wastage of materials associated with the method and procedure to erect thin joint masonry structures

### Security procedures

- 20 site, workplace, company, operative and vehicles

## COSVR49

### Erect **complex** masonry **to form architectural and decorative** structures

#### Overview

This standard is about interpreting information, adopting safe, healthy **and environmentally responsible** work practices, selecting, preparing **and using materials, components, tools and associated equipment**, preparing and erecting brickwork and blockwork and/or structures of local materials, incorporating arches, curves, chimneys, battered and decorative features

**This standard is for people working in the occupational area of Trowel Occupations and can be used by operatives, supervisors and managers**



# COSVR49

## Erect **complex** masonry **to form architectural and decorative** structures

### Additional Information

#### Scope/range related to performance criteria

#### 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 **at least four of** 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 **Fire extinguishers removed**

#### 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** **clear and tidy** work space
- 6 disposal of waste in accordance with **current** legislation

#### Performance Criteria 5

- 7 demonstration of work skills to measure, check, mark-out, lay, position and secure
- 8 use and maintain hand, **tools, portable** power tools and **ancillary** equipment
- 9 erect **complex** masonry in brick and block and/or local materials to given working instructions, **to form architectural and decorative features** including forming joint finishes, for at least three of the following
  - 9.1 arches **(rough ringed, axed, gauged)**
  - 9.2 chimney stacks **or fireplaces**
  - 9.3 **fireplace**
  - 9.4 walls **with flush, projecting or decorative features**
  - 9.5 walls **curved on plan**
  - 9.6 **wall curved in elevation**
  - 9.7 walls **splayed on plan**

#### Performance Criteria 6

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

# COSVR49

## Erect **complex** masonry **to form architectural and decorative** structures

### 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

#### **Fire extinguishers - ????**

- 3 **water, CO<sub>2</sub>, foam, powder and their uses**

#### Hazards

- 4 those identified by risk assessment, methods of work, manufacturers' technical information, statutory regulations and official guidance

#### Health and safety control equipment

- 5 identified by the principles of **protection** **prevention** for occupational use, types and purpose of each type, work situations and general work environment
  - 5.1 collective protective measures
  - 5.2 personal protective equipment (PPE)
  - 5.3 respiratory protective equipment (RPE)
  - 5.4 local exhaust ventilation (LEV)

#### Information

- 6 drawings, specifications, **current legislation**, schedules, method statements, risk assessments, manufacturers' information, oral **and** written **instructions**, sketches, **electronic data**, **official guidance and current regulations governing buildings associated with the erection of the erection of masonry to form architectural and decorative structures**

#### Legislation and official guidance

- 7 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 and storage of materials by manual handling and mechanical lifting

#### Maintenance

- 8 operative care of hand, **tools, portable** power tools and **ancillary** equipment

**Methods of work**

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to
  - 9.1 erect cavity walling and solid walling using brick, **traditional** blocks and thin joint blocks **and local materials**
  - 9.2 erect walls **in local styles** using local materials **and styles**
  - ~~9.3 lay blocks (traditional and thin joint)~~
  - 9.4 work overhand
  - ~~9.5 form openings for doors and windows~~
  - 9.6 **position, install and secure** fixings **and cramps** **and ties**
  - 9.7 **position and secure** wall ties including spacing particularly around openings and movement joints
  - 9.8 **form and maintain the integrity of cavities**
  - 9.9 **install masonry support angles**
  - 9.10 **form and install weep holes and vents**
  - 9.11 form arches (rough **ringed**, axed, **purpose-made gauged**)
  - 9.12 **form chimney stacks**
  - 9.13 **form fireplaces**
  - 9.14 form walls flush, projecting and **with** decorative features
  - 9.15 form walls curved on plan and check with trammel, templates and bay moulds
  - 9.16 form walls splayed on plan and check with templates and bay moulds
  - 9.17 form walls curved and ramped in elevation and set out and check with trammels and profiles
  - 9.18 prop and support structures
  - 9.19 **install movement joints**
  - 9.20 **install wind posts**
  - 9.21 **cut bricks, blocks and local materials**
  - 9.22 complete and remove temporary works
  - 9.23 form joint finishes
  - 9.24 select and install vertical and horizontal reinforcement
  - 9.25 position, **fix and bed** damp-proof barriers, **cloak systems and cavity trays**
  - 9.26 **position, bond and tape insulation materials**

## COSVR49

### Erect **complex** masonry **to form architectural and decorative** structures

9.27 install and maintain the integrity of fire barriers and breaks

9.28 mix mortar

9.29 provide information for Building Information Modelling (BIM)

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

9.31 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance

9.32 identify and follow the installation quality requirements

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

9.34 **direct and guide the operations and movement of plant and machinery**

9.35 use hand, **tools, portable** power tools and equipment

9.36 work at height

9.37 use access equipment

10 team work and communication

11 needs of other occupations associated with **with** erecting masonry structures

#### **Problems**

12 those arising from information, resources and methods of work

12.1 own authority to rectify

12.2 organisational reporting procedures

#### **Programme**

13 types of **progress charts, timetables, productivity targets** and **time scales**

14 **how times are** estimated **times**

15 organisational procedures for reporting circumstances which will affect the work programme

#### **Protect work**

16 protect work against damage from general workplace activities, other occupations and adverse weather conditions

#### **Resources**

17 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist

17.1 bricks, blocks, mortars, frames, insulation, damp-proof barriers, **cloak systems**, lintels, **fixings** and ties

17.2 **fittings and fixings**

17.3 hand, **tools, portable** power tools and **associated** equipment

## COSVR49

Erect **complex** masonry **to form architectural and decorative** structures

18 **confirm resources and materials conform with the specification**

19 methods of calculating quantity, length, area and wastage of materials associated with the method and procedure to erect complex masonry structures

### **Security procedures**

20 site, workplace, company, operative and **vehicles**

# COSVR50

## Repair and maintain masonry structures

### Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting, preparing and using materials, components, tools and associated equipment, repairing and maintaining existing brick and/or block and/or structures of local materials and styles

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

# COSVR50

## Repair and maintain masonry structures

### Additional Information

#### Scope/range related to performance criteria

#### 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 **at least of** 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

- ~~3 **safe use of fire extinguishers, as appropriate to the fire**~~

#### Performance Criteria 3

- 4 selection of resources associated with own work
  - 4.1 materials, components and fixings
  - 4.2 tools and equipment

#### Performance Criteria 4

- 5 protection of the work and its surrounding area from damage
- 6 **minimise damage and** maintain a **clean clear and tidy** work space
- 7 disposal of waste in accordance with **current** legislation

#### Performance Criteria 5

- 8 demonstration of work skills to measure, mark out, **cut**, remove, lay, position and secure
- 9 use and maintain hand, **tools, portable** power tools and **ancillary** equipment
- 10 **prepare**, repair and maintain existing brick and/or block masonry and/or local **style material** structures to given working instructions for at least three of the following
  - 10.1 match existing materials
  - 10.2 continue existing bonding
  - 10.3 match existing quality of structure
  - 10.4 form openings
  - 10.5 prop existing walls and floors
  - 10.6 form internal and external angles

#### Performance Criteria 6

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

# COSVR50

## Repair and maintain masonry structures

### 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

#### Fire extinguishers ????

- 3 water, CO<sub>2</sub>, foam, powder and their uses

#### Hazards

- 4 those identified by risk assessment, methods of work, manufacturers' technical information, statutory regulations and official guidance

#### Health and safety control equipment

- 5 identified by the principles of protection prevention for occupational use, types and purpose of each type, work situations and general work environment
  - 5.1 collective protective measures
  - 5.2 personal protective equipment (PPE)
  - 5.3 respiratory protective equipment (RPE)
  - 5.4 local exhaust ventilation (LEV)

#### Information

- 6 drawings, specifications, current legislation, schedules, method statements, risk assessments, manufacturers' information, oral and written instructions, sketches, electronic data, official guidance and current regulations governing buildings associated with the repair and maintenance of masonry structures

#### Legislation and official guidance

- 7 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 and storage of materials by manual handling and mechanical lifting

#### Maintenance

- 8 operative care of hand, tools, portable power tools and ancillary equipment



# COSVR50

## Repair and maintain masonry structures

### Methods of work

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to
  - 9.1 **prepare**, repair and maintain existing masonry structures in brick, **traditional block** and thin joint blocks or local materials and styles
  - 9.2 **identify materials and components and restore structures to original state**
  - 9.3 form joint finishes
  - 9.4 form openings
  - 9.5 prop existing walls and floors
  - 9.6 **form and maintain the integrity of cavities**
  - 9.7 **position, fix and bed damp-proof barriers cloak systems and cavity trays**
  - 9.8 **form and install weep holes and vents**
  - 9.9 form internal and external angles
  - 9.10 **position, bond and tape insulation materials**
  - 9.11 **install and maintain the integrity of fire barriers and breaks**
  - 9.12 dress surfaces
  - 9.13 form finishes
  - 9.14 **mix mortar mix ratios (volume, gauge boxes and colour)**
  - 9.15 **provide information for Building Information Modelling (BIM)**
  - 9.16 **recognise and determine when specialist skills and knowledge are required and report accordingly**
  - 9.17 **determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance**
  - 9.18 **identify and follow the installation quality requirements**
  - 9.19 work with, **around and in close proximity to** plant and machinery
  - 9.20 **direct and guide the operations and movement of plant and machinery**
  - 9.21 use **hand, tools, portable power tools and** equipment
  - 9.22 work at height
  - 9.23 use access equipment
- 10 team work and communication
- 11 needs of other occupations associated with repairing and maintaining masonry structures

# COSVR50

## Repair and maintain masonry structures

### Problems

- 12 those arising from information, resources and methods of work
  - 12.1 own authority to rectify
  - 12.2 organisational reporting procedures

### Programme

- 13 types of **progress charts, timetables, productivity targets** and **time scales**
- 14 **how times are estimated times**
- 15 organisational procedures for reporting circumstances which will affect the work programme

### Protect work

- 16 protect work against damage from general workplace activities, other occupations and adverse weather conditions

### Resources

- 17 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist
  - 17.1 bricks, blocks, natural stones, mortars, sand, lime, additives, frames, insulation, damp-proof barriers, **cloak systems**, lintels **fixings** and ties
  - 17.2 **fittings and fixings**
  - 17.3 hand, **tools, portable power tools and associated** equipment
- 18 **confirm resources and materials conform with the specification**
- 19 methods of calculating quantity, **length, area and wastage** of materials associated with the method and procedure to repair and maintain masonry structures

### Security procedures

- 20 site, workplace, company, operative and **vehicles**

## COSVRT0151018 first draft

### Install and form specialist masonry elements

#### Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment to install and form specialist masonry support elements

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

# COSVRTO151018 first draft

## Install and form specialist masonry elements

### Additional Information

#### Scope/range related to performance criteria

#### 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 **at least four of** 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

~~3 **safe use of fire extinguishers, as appropriate to the fire ???**~~

#### Performance Criteria 3

- 4 selection of resources associated with own work
  - 4.1 materials, components and fixings
  - 4.2 tools and equipment

#### Performance Criteria 4

- 5 protection of the work and its surrounding area from damage
- 6 maintain a clear and tidy work space
- 7 disposal of waste in accordance with current legislation

#### Performance Criteria 5

- 8 demonstration of work skills to **position, level, plumb, adjust and fix**
- 9 use and maintain hand, **tools, portable** power tools and **ancillary** equipment
- 10 **install and/or form fire barriers and/or breaks and support angles plus at least two of the following specialist masonry support elements** to given working instructions
  - 10.1 **brick soffit systems**
  - 10.2 **channel systems**
  - 10.3 **wind posts**
  - 10.4 **vapour and/or moisture barriers**
  - 10.5 **wall starter kits**

#### Performance Criteria 6

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

# COSVRT0151018 first draft

## Install and form specialist masonry elements

### 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

#### Fire extinguishers

- 3 water, CO<sub>2</sub>, foam, powder and their uses

#### Hazards

- 4 those identified by risk assessment, methods of work, manufacturers' technical information, statutory regulations and official guidance

#### Health and safety control equipment

- 5 identified by the principles of prevention for occupational use, types and purpose of each type, work situations and general work environment
  - 5.1 collective protective measures
  - 5.2 local exhaust ventilation (LEV)
  - 5.3 personal protective equipment (PPE)
  - 5.4 respiratory protective equipment (RPE)

#### Information

- 6 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information, oral and written instructions, sketches, electronic data, official guidance and current regulations governing buildings associated with installing and forming specialist masonry support elements

#### Legislation and official guidance

- 7 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 and storage of materials by manual handling and mechanical lifting

#### Maintenance

- 8 operative care of hand, tools, portable power tools and ancillary equipment

## Install and form specialist masonry elements

### Methods of work

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to
  - 9.1 identify the types, uses and characteristics of specialist masonry support elements; brick soffit systems, support angles, fire barriers and breaks, and wind posts
  - 9.2 position, level, plumb, fix and integrate brick soffit systems
  - 9.3 install and adjust masonry support angles
  - 9.4 install and maintain the integrity of fire barriers and breaks
  - 9.5 form and maintain the integrity of cavities
  - 9.6 position and secure wall ties including spacing, particularly around openings
  - 9.7 position and fix damp-proof barriers, cloak systems and cavity trays
  - 9.8 form and install weep holes and vents
  - 9.9 position bond and tape insulation materials
  - 9.10 install wind posts
  - ~~9.11 provide information for Building Information Modelling (BIM)~~
  - 9.12 recognise and determine when specialist skills and knowledge are required and report accordingly
  - ~~9.13 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance~~
  - 9.14 identify and follow the installation quality requirements
  - 9.15 work with, around and in close proximity to plant and machinery
  - ~~9.16 direct and guide the operations and movement of plant and machinery~~
  - 9.17 use hand, ~~tools, portable~~ power tools and equipment
  - 9.18 work at height
  - 9.19 use access equipment
- 10 team work and communication
- 11 needs of other occupations associated with the installation and formation of specialist masonry support elements

### Problems

- 12 those arising from information, resources and methods of work
  - 12.1 own authority to rectify
  - 12.2 organisational reporting procedures

## COSVRT0151018 first draft

### Install and form specialist masonry elements

#### **Programme**

- 13 types of ~~progress charts, timetables~~ productivity targets and time scales
- 14 how times are estimated ~~times~~
- 15 organisational procedures for reporting circumstances which will affect the work programme

#### **Protect work**

- 16 protect work against damage from general workplace activities, other occupations and adverse weather conditions

#### **Resources**

- 17 materials, components and equipment relating to types, quantity, quality, sizes and the sustainability of standard and/or specialist
  - 17.1 specialist masonry support elements
  - 17.2 fittings and fixings
  - 17.3 hand, ~~tools, and/or portable~~ powered tools and equipment
- 18 confirm resources and materials conform with the specification
- 19 methods of calculating quantity, volume, length, width, area and wastage associated with the method and procedure to install and form specialist masonry support elements

#### **Security procedures**

- 20 site, workplace, company and operative, vehicles