

Development Pack

National Occupational Standards

for

Construction and Civil Engineering Operations (CCEO) (Construction)

Review 2019 **as @ 081019**

COSVR360, COSVR361, COSVR362, COSVR363, COSVR370,
COSVR371, COSVR373, COSVR639, COSVR640

COSVR45 added

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

Development Legend

1st and 2nd Meeting - Red

3rd Meeting – Green

4th Meeting - Blue

5th Meeting – Red underlined

6th Meeting – Green underlined

7th Meeting – Blue underlined

Suggestions from other occupational representatives in red ita

1. Practitioner Group Wales 10 June 2019 no changes considered 4 x employers, 1 x trade body and 1 x training organisation.
2. **National Working Group 16 July 2019 2 x employers, 1 x training provider**
3. **National Working Group 08 October 2019 2 employers 2x training providers 1x SQA Accreditation**

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COSVR360

Install, maintain and remove work area protection and safety equipment



Overview

This standard is about determining the protection and safety requirements, preparing, providing for and maintaining the protection and safety of the occupational area of work, interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment. ~~It is also about determining the protection and safety requirements, preparing, providing for and maintaining the protection and safety of the occupational area of work~~

This standard is for people working in the occupational area of construction and civil engineering operations and can be used by operatives, supervisors and managers

COSVR360

Install, maintain and remove work area protection and safety equipment

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

COSVR360

Install, maintain and remove work area protection and safety equipment

Knowledge and understanding

Performance Criteria 1

Interpretation of information

You need to know and understand:

- 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**

COSVR360

Install, maintain and remove work area protection and safety equipment

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

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

COSVR360

Install, maintain and remove work area protection and safety equipment

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, plans, specifications, schedules, risk assessments, method statements 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

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 maintain a clear and tidy work space
- 6 disposal of waste in accordance with current legislation

Performance Criteria 5

- 7 demonstration of work skills to measure, set out, position, assemble, construct, secure, dismantle and remove
- 8 use and maintain hand tools, and power tools and ancillary equipment
- 9 install, maintain and remove temporary protection and safety arrangements for the work area to given working instructions, relating to protection equipment, barriers, fences and at least one of the following
 - 9.1 protection and safety notices
 - 9.2 safety lighting
- 10 report work undertaken

Performance Criteria 6

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

Install, maintain and remove work area protection and safety equipment

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, CO₂, 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, plans, specifications, schedules, risk assessments, method statements, site inspection reports, manufacturers' information, verbal, written and graphical instructions, oral and written instructions, sketches, electronic data, current regulations and official guidance associated with protecting work areas

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, and power tools and ancillary equipment

Install, maintain and remove work area protection and safety 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 plan for the protection and the safety of the work and surrounding environment
 - 9.2 conform to agreed specification
 - 9.3 confirm the location of utility services and ensure they are protected
 - 9.4 prepare and set out area protection equipment to required dimensions
 - 9.5 install, check and maintain the protection and safety equipment
 - 9.6 dismantle and remove protection and safety equipment
 - 9.7 install safety notices
 - 9.8 install lighting systems
 - 9.9 monitor and check accuracy during progress and on completion of work
 - 9.10 install, maintain and remove work area protection equipment in public areas
 - 9.11 transport, load and off load work area protection equipment
 - 9.12 recognise and determine when specialist skills and knowledge are required and report accordingly
 - 9.13 use hand tools, and power tools and equipment
 - 9.14 work at height
 - 9.15 use access equipment
- 10 team work and communication
- 11 needs of other occupations associated with installation, maintenance and removal of work area protection and safety equipment

Problems

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

Install, maintain and remove work area protection and safety equipment

Programme

- 13 types of productivity targets and time scales
- 14 how times are estimated
- 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 safety and security equipment (cones, tapes, fences, barriers, hoarding, doors, gates)
 - 17.2 protection and safety notices
 - 17.3 signs and lighting
 - 17.4 hand tools, and power tools and equipment
- 18 how to confirm resources and materials conform with the specification
- 19 methods of calculating quantity, length and area associated with the method and procedure used to install, maintain and remove work area protection and safety equipment

Security procedures

- 20 site, workplace, company and operative, vehicles

COSVR360

Install, maintain and remove work area protection and safety equipment

Behaviours

When performing to this standard you are likely to demonstrate the following behaviours:

- 1 **Work safely:** consider the safety of yourself and those around you, challenge unsafe behaviour.
- 2 **Effective communication:** oral, written, electronic, listening, body language, presentation.
- 3 **Respect:** apply equality, diversity and inclusion in dealing with others.
- 4 **Team work:** work effectively and safely with others with limited supervision.
- 5 **Independent working:** take responsibility for safe completion of your own work.
- 6 **Logical thinking:** use clear and valid reasoning when making decisions to safely undertake the work instructions.
- 7 **Working effectively:** undertake the work in a reliable, safe and productive manner.
- 8 **Time management:** use own time effectively to complete the work instructions to schedule, take the time to be safe.
- 9 **Adaptability:** be able to adjust to changes to the work instructions, put safety first.

COSVR360

Install, maintain and remove work area protection and safety equipment

Developed by ConstructionSkills

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Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN VR360

Relevant occupations Road Construction Operatives; Construction Operatives 8149

Suite Construction and Civil Engineering Operations; Accessing Operations and Rigging (Construction); Interior Systems (Construction); Building Maintenance Multi-trade Repair and Refurbishment Operations; Removal of Hazardous and Non-hazardous Waste (Construction); Roofing Occupations (Construction); Site Logistics Operations (Construction); Specialist Installation Occupations (Construction); Specialist Concrete Occupations (Construction); Sub-structure Work Occupations (Construction); Post Tensioning (Construction)

Key words Barriers; Safety-lighting; Signs; Safety notices; Cones; Tapes; Fences; Hoarding

COSVR45

Place and finish **non-specialist** concrete



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, laying, compacting and finishing concrete slabs, footings or bases

This standard is for people working in the occupational area of Construction and Civil Engineering Operations and can be used by operatives, supervisors and managers

COSVR45 Place and finish **non-specialist** concrete

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, **plans**, specifications, schedules, **risk assessments**, 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

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, mark out, **lay**, **place**, compact, finish, position and secure
- 8 use and maintain hand **tools, portable** **and power tools** **and ancillary equipment**
- 9 **lay** **place**, **compact** and finish concrete to given working instructions for **at least three of** the following:
 - 9.1 concrete slabs **and/or** bases (footing, oversites or paths)
 - 9.2 form slab edging (**compact, tamped**)
 - 9.3 position reinforcement
 - 9.4 form surface finish (tamped, floated, brushed and trowelled)

Performance Criteria 6

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

COSVR45 Place and finish **non-specialist** concrete

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, CO₂, 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, **plans**, specifications, current legislation, schedules, method statements, risk assessments, manufacturers' information, **electronic data**, **official guidance** and current regulations **governing buildings** associated with placing and finishing **non-specialist** concrete

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 and power tools and ancillary equipment**

COSVR45 Place and finish ~~non-specialist~~ concrete

Methods of work

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method or area of work and materials used to
 - 9.1 handle, transport and test concrete
 - 9.2 transport, lay, place, compact, cure and protect and finish concrete with tamped, floated, brushed and trowelled finishes
 - 9.3 cure and protect
 - 9.4 place fabric reinforcement
 - 9.5 concrete mix ratios (volume and gauge boxes)
 - 9.6 place concrete into formwork and shuttering
 - 9.7 form slab edging
 - 9.8 recognise and determine when specialist skills and knowledge are required and report accordingly
 - 9.9 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
 - 9.10 identify and follow the installation quality requirements
 - 9.11 work with, around and in close proximity to plant and machinery
 - 9.12 direct and guide the operations and movement of plant and machinery
 - 9.13 use hand tools, portable and power tools and ancillary equipment
 - 9.14 work at height
 - 9.15 use access equipment
- 10 team work and communication
- 11 needs of other occupations associated with placing and finishing ~~non-specialist~~ concrete

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

COSVR45 Place and finish ~~non-specialist~~ concrete

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 concrete, ~~fabrie~~ reinforcement, timber, plywood, proprietary slab edgings and fixings

17.2 ~~fittings and fixings~~

17.3 hand ~~tools,~~ ~~portable~~ and ~~power tools~~ ~~and ancillary equipment~~

18 ~~confirm resources and materials conform with the method statement and/or specification~~

19 methods of calculating quantity, length, area and wastage ~~of materials~~ associated with the method and procedure to place and finish ~~non-specialist~~ concrete

Security procedures

20 site, workplace, company, operative and vehicles

COSVR361

Cut, drill and shape construction related materials

Overview

This standard is about cutting, drilling and shaping the following construction related materials: composites, plastic, masonry, vitreous clay, metal, timber and timber based, cementitious, bituminous and geotextiles as an individual or team member interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment. It is also about cutting, drilling and shaping the following construction related materials: composites, plastic, masonry, vitreous clay, metal, timber and timber based, cementitious, bituminous and geotextiles as an individual or team member

This standard is for people working in the occupational area of construction and civil engineering operations and can be used by operatives, supervisors and managers

COSVR361

Cut, drill and shape construction related materials

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, risk assessments, method statements 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

Performance Criteria 3

- 3 selection of resources associated with own work
 - 3.1 materials, components and fixings
 - 3.2 tools and equipment
 - 3.3 consumables

Performance Criteria 4

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

Cut, drill and shape construction related materials

Performance Criteria 5

- 7 demonstration of work skills to measure, mark out, position, secure, sever cut, drill and shape
- 8 use and maintain hand ~~tools, and~~ power tools ~~and ancillary equipment~~
- 9 select tools to cut, drill and shape at least four of the following materials to line or mark and given work instructions
 - 9.1 composites
 - 9.2 plastic
 - 9.3 masonry
 - 9.4 vitreous clay
 - 9.5 metal
 - 9.6 timber and timber based
 - 9.7 cementitious
 - 9.8 bituminous
 - 9.9 geotextiles

Performance Criteria 6

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

Cut, drill and shape construction related materials

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, CO₂, 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, risk assessments, method statements, permits, manufacturers' information, verbal, written and graphical instructions, official guidance associated with cutting, drilling and shaping construction materials

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, and** power tools **and ancillary equipment**

Cut, drill and shape construction related materials

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 plan, mark and set out for cutting, severing, drilling and shaping
 - 9.2 conform to agreed specification
 - 9.3 cut, drill, shape and prepare, composite, plastic, masonry, vitreous clay, metal, timber and timber based materials, concrete, bituminous materials and geotextiles for use
 - 9.4 operate specialist cutting, drilling and shaping equipment
 - 9.5 change cutting, drilling and shaping blades and bits
 - 9.6 suppress and control dust, fumes and debris
 - 9.7 monitor and check accuracy during progress and on completion of work
 - 9.8 recognise hazards not previously identified while cutting, drilling and shaping
 - 9.9 recognise and determine when specialist skills and knowledge are required and report accordingly
 - 9.10 use hand ~~tools, and~~ power tools ~~and equipment~~
 - 9.11 work at height
 - 9.12 use access equipment
- 10 team work and communication
- 11 needs of other occupations associated with cutting, drilling and shaping construction related materials

Problems

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

Cut, drill and shape construction related materials

Programme

- 13 types of productivity targets and time scales
- 14 how times are estimated
- 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 composites, plastic, masonry, vitreous clay, metal, timber, timber based products and cementitious materials
 - 17.2 bituminous materials and geotextiles
 - 17.3 jigs and clamps
 - 17.4 blades and bits
 - 17.5 hand tools, and power tools and equipment
- 18 how to confirm resources and materials conform with the given specification
- 19 methods of calculating quantity, length, area and wastage associated with the method and procedure used to cut, drill and shape construction related materials

Security procedures

- 20 site, workplace, company and operative, vehicles

Behaviours will appear on this NOS

Overview

This standard is about laying, placing or applying the following construction related materials: top soil or sub-soil, granular fill, concrete, cementitious, bituminous and geotextiles as an individual or team member interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment. It is also about laying, placing or applying the following construction related materials: top soil or sub-soil, granular fill, concrete, cementitious, bituminous and geotextiles as an individual or team member

This standard is for people working in the occupational area of construction and civil engineering operations and can be used by operatives, supervisors and managers

Lay, place or apply construction related materials

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

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 maintain a clear and tidy work space
- 6 disposal of waste in accordance with current legislation

Performance Criteria 5

- 7 demonstration of work skills to set out, lay, compact, level and finish
- 8 use and maintain hand tools, power tools and equipment
- 9 lay, place or apply at least three of the following construction related materials by oneself or with others to given working instructions
 - 9.1 top soil or subsoil
 - 9.2 granular fill
 - 9.3 cohesive fill
 - 9.4 concrete
 - 9.5 cementitious
 - 9.6 bituminous
 - 9.7 geotextiles

Performance Criteria 6

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

Lay, place or apply construction related materials

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, CO₂, 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, verbal, written and graphical instructions, current regulations and official guidance associated with laying, placing or applying construction related materials

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, and power tools and equipment

Lay, place or apply construction related materials

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 plan, set out, lay, place, compact and finish soil and sub-soils, granular fill materials, cohesive fill materials, concrete, cementitious materials, bituminous materials and geotextiles
 - 9.2 conform with agreed specifications
 - 9.3 identify and confirm the protection of services
 - 9.4 work with, around and in close proximity to plant and machinery including lifting equipment
 - 9.5 recognise types of material
 - 9.6 identify methods of placement, laying and compaction for different materials
 - 9.7 identify requirements for quality control including tests
 - 9.8 recognise and determine when specialist skills and knowledge are required and report accordingly
 - 9.9 identify protection criteria for completed work
 - 9.10 protect cementitious materials during the curing process
 - 9.11 monitor and check the accuracy during progress and on completion of work
 - 9.12 use hand tools, and 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 laying, placing and applying construction related materials

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

COSVR362

Lay, place or apply construction related materials

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 concrete, screeds, sub-base, aggregate and bituminous materials

17.2 hand tools, and power tools and equipment

18 how to confirm resources and materials conform with the given specification

19 methods of calculating quantity, length, area, volume and wastage associated with the method and procedure to lay, place or apply construction related materials

Security procedures

20 site, workplace, company and operative, vehicles

Behaviours will appear on this NOS.

COSVR363

Prepare and mix construction related materials

Overview

This standard is about preparing and mixing the following construction related materials: cementitious, plasters, resins, adhesives, bonding agents, colourings, waterproof coatings, grouts and pre-mixed compounds as an individual or team member, interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment. It is also about preparing and mixing the following construction related materials: cementitious, plasters, resins, adhesives, bonding agents, colourings, waterproof coatings, grouts and pre-mixed compounds as an individual or team member.

This standard is for people working in the occupational area of construction and civil engineering operations and can be used by operatives, supervisors and managers.

Prepare and mix construction related materials

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

Performance Criteria 3

- 3 selection of resources associated with own work
 - 3.1 materials
 - 3.2 tools and equipment

Performance Criteria 4

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

Prepare and mix construction related materials

Performance Criteria 5

7 demonstration of work skills to measure, gauge, stir, mix, agitate and blend

8 use and maintain hand tools, and power tools and equipment

9 prepare at least two of the following materials for use to given working instructions

9.1 cementitious

9.2 plasters

9.3 resins

9.4 adhesives

9.5 bonding agents

9.6 colourings

9.7 waterproof coatings

9.8 grouts

9.9 pre-mixed compounds

Performance Criteria 6

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

Prepare and mix construction related materials

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, CO₂, foam, powder and their uses

Hazards

- 4 those identified by risk assessment, Control of Substances Hazardous to Health (COSHH) assessments, 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, verbal, written and graphical instructions, current regulations and official guidance associated with preparing and mixing construction related materials

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, and power tools and equipment

Prepare and mix construction related materials

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 plan, set out and prepare cementitious materials, plasters, resins, adhesives, bonding agents, colourings, water-proof coatings, grouts and pre-mixed compounds for use
 - 9.2 conform to agreed specifications
 - 9.3 set up, prepare, conduct pre-start checks, start, operate, monitor the operation of and close down specialist mixing machinery and equipment
 - 9.4 recognise types of materials and constituents
 - 9.5 work with, around and in close proximity to plant or machinery and lifting equipment
 - 9.6 monitor and check accuracy during progress and on completion of work
 - 9.7 protect constituents and mixed materials
 - 9.8 identify requirements for quality control including tests
 - 9.9 recognise and determine when specialist skills and knowledge are required and report accordingly
 - 9.10 use hand tools, and power tools and equipment
 - 9.11 use access equipment
 - 9.12 team work and communication
 - 9.13 needs of other occupations associated with preparing and mixing construction related materials
- 10 team work and communication
- 11 needs of other occupations associated with preparing and mixing construction related materials

Problems

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

Prepare and mix construction related materials

Programme

- 13 types of productivity targets and time scales
- 14 how times are estimated
- 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 cementitious materials, plasters, resins, adhesives, bonding agents, colourings, waterproof coatings, grouts, pre-mixed compounds
 - 17.2 hand tools, and power tools and equipment
- 18 how to confirm resources and materials conform with the given specification
- 19 methods of calculating quantity, length, area, volume and wastage associated with the method and procedure to prepare and mix construction related materials

Security procedures

- 20 site, workplace, company and operative, vehicles

Behaviours will appear on this NOS

COSVR370

Install, maintain and remove temporary excavation support

Overview

This standard is about installing, maintaining and removing temporary excavation support, interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment, ~~installing, maintaining and removing temporary excavation support~~

This standard is for people working in the occupational area of construction and civil engineering operations and can be used by operatives, supervisors and managers

Install, maintain and remove temporary excavation support

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, risk assessments, method statements 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 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

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 maintain a clear and tidy work space
- 6 disposal of waste in accordance with current legislation

Performance Criteria 5

- 7 demonstration of work skills to measure, mark out, prepare, position, fit, support, fix, secure, dismantle and remove
- 8 use and maintain hand tools, and power tools and ancillary equipment
- 9 install, maintain and remove temporary excavation support to given working instructions relating to at least one of the following
 - 9.1 proprietary systems e.g. drag box, trench box, manhole box
 - 9.2 open and closed support systems
 - 9.3 piling systems e.g. diaphragm wall, trench sheets, sheet piles, secant support or contiguous support
 - 9.4 bespoke support systems

Performance Criteria 6

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

Install, maintain and remove temporary excavation support

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, CO₂, 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, risk assessments, method statements, manufacturers' information, verbal, written and graphical instructions, current regulations and official guidance governing construction works and the support of excavations

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, and power tools and ancillary equipment

Install, maintain and remove temporary excavation support

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 recognise types of temporary support for excavations
 - 9.2 conform to agreed specifications
 - 9.3 plan, prepare and set out for the installation of the excavation support and edge protection
 - 9.4 remove surface courses, ironwork, modular components, street furniture and sub-surface structures
 - 9.5 recognise changes in ground conditions, ground water conditions, soil types and excavation stability
 - 9.6 recognise the dangers of loads and structures at the edge of excavations
 - 9.7 identify and locate utility services, excavate around services and protect
 - 9.8 recognise inspection and test criteria for excavation support systems
 - 9.9 provide for safe access and egress into the excavation and around the temporary excavation support
 - 9.10 protect and monitor adjacent structures
 - 9.11 excavate manually for the installation, maintenance and removal of excavation supports
 - 9.12 construct, erect and install temporary excavation support as excavations progress and on completion
 - 9.13 monitor and check accuracy at start, during progress and on completion of work
 - 9.14 work with, around and in close proximity to plant and machinery including lifting equipment
 - 9.15 inspect and maintain the integrity and safety of the temporary support structures
 - 9.16 dismantle and remove the excavation support structure
 - 9.17 recognise and determine when specialist skills and knowledge are required and report accordingly
 - 9.18 use hand tools, and power tools and equipment
 - 9.19 work at height and in confined spaces
 - 9.20 use access equipment

COSVR370

Install, maintain and remove temporary excavation support

10 team work and communication

11 needs of other occupations associated with installing, maintaining and removing temporary excavation support

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 productivity targets and time scales

14 how times are estimated

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 proprietary systems

17.2 open and closed support systems

17.3 piling systems

17.4 bespoke equipment

17.5 fixing devices

17.6 hand tools, and power tools and ancillary equipment

18 how to confirm resources and materials conform with the given specification

19 methods of calculating quantity, length, area and wastage associated with the method and procedure to provide excavation support

Security procedures

20 site, workplace, company and operative, vehicles

Behaviours will appear on this NOS

COSVR371

~~Pour concrete to form structures~~ **Removed 160719**

COSV373

Form and finish excavations manually

Overview

This standard is about forming and finishing excavations manually including excavating around services, interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment ~~to form and finish excavations manually including excavating around services~~

This standard is for people working in the occupational area of construction and civil engineering operations and can be used by operatives, supervisors and managers

Form and finish excavations manually

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, risk assessments and method statements 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

Performance Criteria 3

- 3 selection of resources associated with own work
 - 3.1 materials and components
 - 3.2 tools and equipment

Performance Criteria 4

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

Performance Criteria 5

- 7 demonstration of work skills to check, locate, measure, mark out, excavate and secure
- 8 use and maintain hand tools, power tools and ancillary equipment
- 9 form and finish excavations manually to given working instructions

Performance Criteria 6

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

Form and finish excavations manually

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, CO₂, 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, risk assessments, method statements, manufacturers' information, verbal, written and graphical instructions, permits, current legislation and official guidance governing excavations and the support of excavations

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, 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, and power tools and ancillary equipment

Form and finish excavations manually

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 locate, position, identify and confirm the type of surface and sub-surface composition including ground water
 - 9.2 conform to agreed specifications
 - 9.3 plan, prepare, set out and mark out excavations
 - 9.4 remove surface courses, street furniture and sub-surface structures
 - 9.5 protect and monitor adjacent structures
 - 9.6 excavate, form and finish ground manually
 - 9.7 recognise changes in ground conditions, ground water conditions, soil types and excavation stability
 - 9.8 recognise the dangers of loads and structures at the edge of excavations
 - 9.9 identify and locate utility services, excavate around services and protect
 - 9.10 monitor and check accuracy during progress and on completion of work
 - 9.11 recognise inspection and test criteria for excavations
 - 9.12 identify and store excavated and reusable materials
 - 9.13 confirm the disposal of unusable materials
 - 9.14 recognise the need for positioning, securing and removing excavation supports
 - 9.15 provide for access and egress
 - 9.16 work with, around and in close proximity to plant and machinery
 - 9.17 recognise and determine when specialist skills and knowledge are required and report accordingly
 - 9.18 use hand tools, and power tools and equipment
 - 9.19 use access equipment
 - 9.20 work at height
- 10 team work and communication
- 11 needs of other occupations associated with the formation and finishing of excavations manually

Form and finish excavations manually

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 productivity targets, time scales

14 how times are estimated

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 digging equipment

17.2 hand tools, and power tools and equipment

18 how to confirm resources and materials conform with the given specification

19 methods of calculating quantity, length, area, volume and wastage associated with the method and procedure to form and finish excavations manually

Security procedures

20 site, workplace, company and operative, vehicles

Behaviours will appear on this NOS

COSVR639

Install drainage

Overview

This standard is about installing and testing new and/or replacement drainage, interpreting information, adopting safe and healthy working practices, selecting materials, components and equipment and preparing for and laying pipes, ~~installing and testing new and/or replacement drainage~~

This standard is for people working in the occupational area of construction and civil engineering operations and can be used by operatives, supervisors and managers

COSVR639

Install drainage

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, risk assessments, method statements 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 and storage and handling of materials, tools and equipment
 - 2.5 specific risks to health

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 maintain a clear and tidy work space
- 6 disposal of waste in accordance with current legislation

Performance Criteria 5

- 7 demonstration of work skills to check, measure, mark out, cut, lay, position, fit, join, level, plumb, align, secure and test
- 8 use and maintain hand tools, and power tools and ancillary equipment
- 9 lay bedding materials, install and test pipework (e.g. clay, concrete, metal or plastic) for new and/or replacement, foul and/or surface water drainage for at least one of the following to given working instructions
 - 9.1 inspection chambers (e.g. brick, concrete, metal or plastic)
 - 9.2 surface water systems (e.g. cells, culverts, high capacity, linear, balancing ponds, interceptors, recycling equipment, soak-a-ways, or sustainable urban drainage systems)
 - 9.3 foul water systems (e.g. cess pools, septic tanks, reed beds, or treatment plants)
 - 9.4 surround pipe with specified materials
 - 9.5 place backfill to trench using given work instructions for both compacted and free drainage materials

Performance Criteria 6

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

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, CO₂, 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, risk assessments, method statements, manufacturers' information, verbal, written and graphical instructions, permits, regulations and official guidance governing the installation and construction of drainage systems

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, and 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 excavate trenches and provide trench support
 - 9.2 confirm ground conditions, site and excavations are suitable for the drainage installation work
 - 9.3 recognise the dangers of loads and structures at the edge of excavations
 - 9.4 deal with groundwater
 - 9.5 work around other utility services
 - 9.6 install geotextile materials
 - 9.7 prepare different types of granular and cementitious bedding for pipework e.g. including sand, shingle
 - 9.8 determine levels and gradients
 - 9.9 identify the differences between surface and foul water drainage
 - 9.10 measure, mark and cut drainage materials
 - 9.11 lay, position, level, plumb, align, fit, join, fix and secure new and replacement drainage systems
 - 9.12 lift and transport assembled drainage systems
 - 9.13 construct structures of a drainage system (storm alleviation, culverts, inspection chambers, lateral drains, overflows, sumps, filter drains, sustainable urban drainage systems)
 - 9.14 assemble pre-cast components (metal, concrete, clay and plastic) of a drainage system structure (inspection chambers, street iron work)
 - 9.15 connect and seal new systems to existing systems
 - 9.16 prepare for conducting smoke, water, ball, air and mandrel tests on drainage systems
 - 9.17 work with, around and in close proximity to plant and machinery including lifting plant
 - 9.18 store and dispose of removed drainage components
 - 9.19 follow specified hygiene procedures particularly when dealing with foul water draining systems
 - 9.20 recognise and determine when specialist skills and knowledge are required and report accordingly

COSVR639

Install drainage

- 9.21 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
- 9.22 use hand tools, and power tools and equipment
- 9.23 work at height and below ground level
- 9.24 use access equipment
- 10 team work and communication
- 11 needs of other occupations associated with installing drainage

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
- 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 pipes, fittings and ancillary components
 - 17.2 pre-cast (metal, concrete, clay or plastic) components
 - 17.3 bricks, blocks and sandbags
 - 17.4 granular materials, aggregates, cement, concrete, mortars and sand
 - 17.5 sealant materials (adhesives, compounds, solvents)
 - 17.6 hand tools, and power tools and ancillary equipment
- 18 how to confirm resources and materials conform with the given specification
- 19 methods of calculating quantity, length, area and wastage associated with the method/ and procedure to install drainage

Security procedures

- 20 site, workplace, company and operative, vehicles

Behaviours will appear on this NOS

COSVR640

Erect and strike proprietary formwork

Overview

This standard is about **erecting and striking proprietary formwork**, interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components, tools and equipment and **erecting and striking proprietary formwork**

This standard is for people working in the occupational area of construction and civil engineering operations and can be used by operatives, supervisors and managers

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, risk assessments, method statements, manufacturers' and suppliers' 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 five of the following
 - 2.1 methods of work
 - 2.2 safe use of health and safety control equipment
 - 2.3 working with and around utility services including ground penetration
 - 2.4 safe use of access equipment
 - 2.5 safe use, storage and handling of materials, tools and equipment
 - 2.6 specific risks to health

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 maintain a clear and tidy work space
- 6 disposal of waste in accordance with current legislation

Performance Criteria 5

- 7 demonstration of work skills to measure, mark out, align, position, level, plumb, secure, remove and store
- 8 use and maintain hand tools, and power tools and ancillary equipment
- 9 erect and strike proprietary formwork to given working instructions

Performance Criteria 6

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

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, CO2, foam, powder and their uses**

Hazards

- 4 those identified by risk assessment, methods of work, manufacturers' and suppliers' 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, risk assessments, method statements, permits, manufacturers' and suppliers' information, verbal, written and graphical instructions, current regulations and official guidance associated with formwork

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**, and power tools **and ancillary equipment**

Erect and strike proprietary formwork

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 set out, erect and strike proprietary formwork for walls, columns, beams, soffits, channels, ground slabs and bases
 - 9.2 conform to agreed specifications
 - 9.3 attach and remove safe lifting provision
 - 9.4 position, secure and remove prop and tie systems
 - 9.5 monitor and check accuracy during progress and on completion of work
 - 9.6 apply release agents
 - 9.7 move, clean, stack and store proprietary forms
 - 9.8 recognise and determine when specialist skills and knowledge are required and report accordingly
 - 9.9 work with, around and in close proximity to plant and machinery including lifting equipment
 - 9.10 use hand tools, and power tools and equipment
 - 9.11 work at height
 - 9.12 use access equipment
- 10 team work and communication
- 11 needs of other occupations associated with erecting and striking proprietary formwork

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 productivity targets and time scales
- 14 how times are estimated
- 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 proprietary formwork and associated items

17.2 tie systems

17.3 prop systems

17.4 protective coatings

17.5 fixtures and fittings

17.6 access equipment

17.7 hand tools, and power tools and equipment

18 how to confirm resources and materials conform with the given specification

19 methods of calculating quantity, length, area and wastage associated with the method and procedure to erect and strike proprietary formwork

Security procedures

20 site, workplace, company and operative, vehicles

Behaviours will appear on this NOS