

Prepare, mix and distribute mortars

Overview

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

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

Prepare, mix and distribute 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

Prepare, mix and distribute 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

K4 the level of understanding operatives must have of **information** for relevant, current **legislation and official guidance** and how it is applied

K5 how **emergencies** should be responded to and who should respond

K6 the organisational **security procedures** for tools, equipment and personal belongings

K7 what the accident reporting procedures are and who is responsible for making the report

K8 why, when and how **health and safety control equipment** should be used

K9 how to comply with environmentally responsible work practices to meet current **legislation and official guidance**

Performance Criteria 3

Selection of resources

K10 the characteristics, quality, uses, sustainability, limitations and defects associated with the **resources** and how defects should be rectified

K11 how the **resources** should be used and how any **problems** associated with the **resources** are reported

K12 the organisational procedures to select **resources**, why they have been developed and how they are used

K13 the **hazards** associated with the **resources** and **methods of work** and how they are overcome

Prepare, mix and distribute mortars

Performance Criteria 4

Minimise the risk of damage

K14 how to **protect work** from damage and the purpose of protection

K15 why **disposal of waste** should be carried out safely and how it is achieved

Performance Criteria 5

Meet the contract specification

K16 how **methods of work**, to meet the specification, are carried out and problems reported

K17 how **maintenance** of tools and equipment is carried out

Performance Criteria 6

Allocated time

K18 what the **programme** is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

Prepare, mix and distribute mortars

Scope/range**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 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 gauge, mix and distribute

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

9 gauge and mix concrete and/or mortars and distribute 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

Prepare, mix and distribute 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

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 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 associated with preparing, mixing and distributing concrete 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

Prepare, mix and distribute mortars

Maintenance

7 operative care of hand and power tools, mixers and equipment

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

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

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

8.8 transport and distribute concrete and mortars

8.9 use hand and power tools, mixing plant and equipment

8.10 work at height

8.11 use access equipment

9 team work and communication

10 needs of other occupations associated with preparing, 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 productivity targets and time scales

13 how times are estimated

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

Protect work

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

Prepare, mix and distribute mortars

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 and power tools, mixing plant, transportation and distribution 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, mix and distribute concrete and mortars

Security procedures

19 site, workplace, company, operative and vehicles

Prepare, mix and distribute mortars

Developed by	Construction Skills
Version Number	3
Date Approved	11 Feb 2019
Indicative Review Date	11 Feb 2022
Validity	Current
Status	Original
Originating Organisation	ConstructionsSkills
Original URN	VR36
Relevant Occupations	Bricklayers and Mason
Suite	Bricklaying
Keywords	Mechanical-mixing; Mixing-plant; Aggregate; Concrete; Mortar; Thin bed blocks