COSVR363 - SQA Unit Code DY77 04
Prepare mixed construction related materials

Overview

This standard is about

1 interpreting instructions
2 adopting safe and healthy working practices
3 selecting materials and equipment
4 carrying out as an individual, or team member, preparation of materials requiring a mixing process

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Performance criteria

You must be able to:

P1 comply with the given, relevant legislation and official guidance to carry out your work and maintain safe work practices

P2 select the required quantity and quality of resources for the methods of work

P3 comply with organisational procedures to minimise the risk of damage to the work and surrounding area

P4 comply with the given contract instructions to carry out the work efficiently to the required specification

P5 complete the work within the allocated time, in accordance with the programme of work

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Knowledge and understanding

You need to know and understand:

Performance Criteria 1
Safe work practices

K1 the types of **information**
K2 the level of understanding operatives must have of relevant, current **legislation and official guidance** and how it is applied
K3 how **emergencies** should be responded to and who should respond
K4 the organisational **security procedures** for tools, equipment and personal belongings
K5 what the accident reporting procedures are and who is responsible for making the report
K6 why, when and how **personal protective equipment (PPE)** should be used

You need to know and understand:

Performance Criteria 2
Selection of resources

K7 the characteristics, quality, uses, limitations and defects associated with the **resources**
K8 how the **resources** should be used
K9 the **hazards** associated with the **resources** and **methods of work**

You need to know and understand:

Performance Criteria 3
Minimise the risk of damage

K10 how to **protect work** from damage and the purpose of protection
K11 why **disposal of waste** should be carried out safely

You need to know and understand:

Performance Criteria 4
Given contract instructions

K12 how **methods of work** are carried out and **problems** reported
K13 how **maintenance** of tools and equipment is carried out

You need to know and understand:

Performance Criteria 5
Allocated time

K14 what the **programme** is for the work to be carried out and why deadlines should be kept

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Additional Information

Scope/range related to performance criteria

Performance Criteria 1

1 avoidance of risk by following the given information relating to at least four of the following
   - 1.1 methods of work
   - 1.2 safe use of personal protective equipment (PPE)
   - 1.3 safe use of access equipment
   - 1.4 safe use and storage of materials, tools and equipment

Performance Criteria 2

2 selection of resources associated with own work
   - 2.1 materials
   - 2.2 tools and equipment

Performance Criteria 3

3 protection of the work and its surrounding area from damage

4 minimise damage and maintain a clean work space

5 disposal of waste in accordance with legislation

Performance Criteria 4

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

7 use and maintain hand tools, portable power tools and ancillary equipment

8 prepare at least one of the following materials for use by oneself or others to given working instructions
   - 8.1 materials requiring cement as the hardening agent
   - 8.2 plasters
   - 8.3 resins
   - 8.4 bonding agents
   - 8.5 colourings
   - 8.6 waterproof coatings
   - 8.7 grouts
   - 8.8 pre-mixed compounds

Performance Criteria 5

9 completion of own work within the time allowed

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Scope/range related to knowledge and understanding

Disposal of waste

1 environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance

Emergencies

2 operative's response to situations in accordance with organisational authorisation and personal skills when involved with
   - 2.1 fires, spillages, injuries
   - 2.2 emergencies relating to the occupational activities

Hazards

3 those identified by risk assessment, method of work, manufacturers' technical information, statutory regulations and official guidance

Information

4 manufacturers' information, oral/written and sketches

Legislation and official guidance

5 this relates to the operative's responsibilities regarding potential accidents and health hazards whilst working in the workplace, below ground level, in confined spaces, at height, with tools and equipment, with materials and substances, with movement/storage of materials and by manual handling and mechanical lifting

Maintenance

6 operative care of hand tools, portable power tools and ancillary equipment

Methods of work

7 application of knowledge for safe work practices, procedures and skills, relating to the method/area of work and materials used, to
   - 7.1 prepare materials requiring cement as the hardening agent, plasters, resins, bonding agents, colourings, water-proof coatings, grouts, and pre-mixed compounds for use
   - 7.2 work with plant or machinery and lifting equipment
   - 7.3 use hand tools, power tools and equipment
   - 7.4 work at height
   - 7.5 use access equipment

8 team work and communication

9 needs of other occupations associated with the preparation of materials

Personal protective equipment (PPE)

10 occupational use, types, purpose of each type and work situations

Problems

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

Programme

12 agreed starting and finishing times

Protect work

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

Resources

14 materials, components and equipment relating to types, quantity, quality, sizes and sustainability of standard and/or specialist
   - 14.1 cement, lime, aggregates, plasters, additives, resins, waterproofers, colourings, grouts, pre-mixed compounds
   - 14.2 hand and/or powered tools and equipment

15 methods of calculating quantity, length, area, volume and wastage associated with the method/procedure to prepare construction related materials

Security procedures

16 site, workplace, company and operative

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