

COSVR386 – SQA Unit Code HN23 04

Prepare plant or machinery prior to operational performance



Overview

This standard is about interpreting information, adopting safe, healthy and environmentally responsible work practices, selecting and using materials, components and tools to prepare plant, machinery or equipment for operational performance. Preparing and setting up plant, machinery or equipment prior to operational performance

This standard is for people working independently or as part of a team to prepare, set up and check, plant, machinery or equipment prior to operational performance and can be used by operatives, technicians, supervisors and managers

Performance criteria

You must be able to:

- P1 interpret the given operating information relating to the use of plant or machinery and confirm its relevance
- P2 organise with others the sequence in which the work is to be carried out
- P3 comply with the relevant, current legislation, special legal status documents, official guidance and organisational procedures to maintain safe and healthy work practices
- P4 request resources to sustain plant or machinery operations to complete the programme of work
- P5 select plant or machinery resources for the methods of work and operations to be carried out
- P6 comply with organisational procedures to minimise the risk of damage to the work and surrounding area
- P7 comply with the given contract information to carry out the work efficiently to the required specification
- P8 complete the work within the allocated time, in accordance with the programme of work

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

Organise with others

You need to know and understand:

- K4 **communication** of ideas between team members
- K5 organisation of **resources** in conjunction with the progress of work
- K6 the **skills** required to carry out the work

Performance Criteria 3

Safe work practices

You need to know and understand:

- K7 the level of understanding operatives must have of **information** for relevant, current **legislation, Approved Codes of Practice and official guidance** and how it is applied
- K8 how **emergencies** should be responded to and who should respond
- K9 the organisational **security procedures** for plant and/or machinery, tools, equipment and personal belongings
- K10 what the accident reporting procedures are and who is responsible for making the report
- K11 why, when and how **health and safety control equipment** should be used
- K12 how to comply with environmentally responsible work practices to meet the requirements of current **legislation and official guidance**

Performance Criteria 4

Request resources

You need to know and understand:

K13 the organisational procedures for requisitioning consumables and other **resources**

Performance Criteria 5

Selection of resources

You need to know and understand:

K14 the characteristics, quality, uses, sustainability, limitations and defects associated with plant **resources** and how defects should be rectified

K15 how the **resources** should be used and how any **problems** associated with the **resources** are reported

K16 the organisational procedures to select **resources**, why they have been developed and how they are used

K17 the **hazards** associated with the **resources** and **methods of work** and how they are overcome

Performance Criteria 6

Minimise the risk of damage

You need to know and understand:

K18 how to **protect work** from damage and the purpose of protection

K19 why **disposal of waste** should be carried out safely and how it is achieved

Performance Criteria 7

Meet the contract specification

You need to know and understand:

- K20 how **methods of work**, to meet the specification, are carried out and **problems** reported
- K21 how **maintenance** of plant and/or machinery, tools and equipment is carried out

Performance Criteria 8

Allocated time

You need to know and understand:

- K22 what the **programme** is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

Additional Information

Scope/range related to performance criteria

Performance Criteria 1

- 1 interpretation of drawings, specifications, schedules, risk assessments and manufacturers' information related to the work to be carried out

Performance Criteria 2

- 2 organisation of own work
- 3 communication with team members and other associated occupations about the plant or machinery operation and the work to be carried out

Performance Criteria 3

- 4 avoidance of risk by complying with the given safety information relating to at least four of the following
 - 4.1 methods of work
 - 4.2 safe use of health and safety control equipment
 - 4.3 safe preparation for use of plant or machinery
 - 4.4 safe use and storage of tools and equipment
 - 4.5 specific risks to health

Performance Criteria 4

- 5 follow organisational procedures for the requisition of consumables, materials and other resources

Performance Criteria 5

- 6 selection of resources associated with own work
 - 6.1 attachments, tools and ancillary equipment

Performance Criteria 6

- 7 protection of the work and its surrounding area from damage
- 8 prevent damage and maintain a clean work space
- 9 disposal of waste in accordance with current legislation

Performance Criteria 7

- 10 demonstration of work skills to fit, attach, set up, adjust, secure, check, confirm and remove
- 11 use and maintain hand tools, ancillary equipment and/or accessories
- 12 prepare plant, machinery or equipment prior to operational performance to given working instructions relating to
 - 12.1 set up
 - 12.2 functional checks
 - 12.3 operational performance
 - 12.4 safety and security

Performance Criteria 8

- 13 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

Communication

- 1 discussions, sketches, electronic data and briefings

Disposal of waste

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

Emergencies

- 3 operative's response to situations in accordance with organisational authorisation and personal skills when involved with
 - 3.1 fires, spillages, injuries
 - 3.2 emergencies relating to occupational activities

Hazards

- 4 those identified by method of work, risk/COSHH assessments, manufacturers' technical information, statutory regulations and official guidance

Health and safety control equipment

- 5 identified by the principles of protection 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 and current regulations governing the operation of plant or machinery or the use of equipment

Legislation, Approved Codes of Practice 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/storage of materials and by manual handling and mechanical lifting

Maintenance

- 8 operative care of plant and machinery, hand tools, ancillary equipment and accessories

Methods of work

- 9 application of knowledge for safe and healthy work practices, procedures and skills relating to the method/area of work and materials used to
 - 9.1 find information for preparing plant and machinery including attachments and ancillary equipment
 - 9.2 identify the characteristics of the plant, machinery and equipment
 - 9.3 complete pre-use checks
 - 9.4 select ancillary equipment and accessories
 - 9.5 prepare, set up and adjust for operational requirements, safety and security
 - 9.6 complete function checks
 - 9.7 recognise and determine when specific skills and knowledge are required and report accordingly
 - 9.8 operate and move plant and machinery, and use equipment
 - 9.9 move and remove attachments, ancillary equipment and accessories
 - 9.10 travel on public highways
 - 9.11 use hand tools, ancillary equipment and accessories
- 10 team work and communication
- 11 needs of other occupations associated with preparing plant, machinery and equipment prior to operations

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
- 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

Resources

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

16.1 consumables, lubricants, fuels

16.2 hand tools, ancillary equipment and accessories

17 identify weight, quantity, bearing, volume, length and area associated with the method/procedure to prepare plant, machinery and equipment prior to operational performance

Security procedures

18 site, workplace, company and operative

Skills

19 own occupation and occupations related to the work

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