

COSVR385 – SQA Unit Code HM9N 04

Operate plant or machinery to demolish



Overview

This standard is about

- 1 interpreting information.
- 2 adopting safe and healthy working practices.
- 3 selecting and/or using materials, components and equipment for plant or machinery operations
- 4 setting up, operating and shutting down plant or machinery for carrying out demolition of structures and segregation work

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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 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

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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

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

Performance Criteria 3

Safe work practices

You need to know and understand:

- K6 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
- K7 how **emergencies** should be responded to and who should respond
- K8 the organisational **security procedures** for plant and/or machinery, tools, equipment and personal belongings
- K9 what the accident reporting procedures are and who is responsible for making the report
- K10 why, when and how **personal protective equipment (PPE)** should be used

Performance Criteria 4

Request resources

You need to know and understand:

- K11 the organisational procedures for requisitioning consumables and other **resources**

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You need to know and understand:

Performance Criteria 5

Selection of resources

- K12 the characteristics, quality, uses, sustainability, limitations and defects associated with plant **resources** and how defects should be rectified
- K13 how the **resources** should be used and how any **problems** associated with the **resources** are reported
- K14 the organisational procedures to select **resources**, why they have been developed and how they are used
- K15 the **hazards** associated with the **resources** and **methods of work** and how they are overcome

You need to know and understand:

Performance Criteria 6

Minimise the risk of damage

- K16 how to **protect work** from damage and the purpose of protection
- K17 why **disposal of waste** should be carried out safely and how it is achieved

You need to know and understand:

Performance Criteria 7

Meet the contract specification

- K18 how **methods of work**, to meet the specification, are carried out and **problems** reported
- K19 how **maintenance** of plant and/or machinery, tools and equipment is carried out

You need to know and understand:

Performance Criteria 8

Allocated time

- K20 what the **programme** is for the work to be carried out in the estimated, allocated time and why deadlines should be kept

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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 plant or machinery operations and 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 following the given information relating to the following
 - 4.1 methods of work
 - 4.2 safe use of health and safety control equipment
 - 4.3 segregation and safe storage of materials
 - 4.4 safe use and storage of plant or machinery tools and equipment

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 minimise damage and maintain a clean work space
- 9 disposal of waste in accordance with legislation

Performance Criteria 7

- 10 demonstration of work skills to check, adjust, communicate, manoeuvre, position, demolish, segregate, stockpile, remove and load
- 11 use and maintain hand tools, ancillary equipment and/or accessories
- 12 operate plant or machinery to demolish structures and segregate, stockpile, remove and load materials to given working instructions
- 13 shut down and secure plant or machinery

Performance Criteria 8

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

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Scope/range related to knowledge and understanding

Communication

- 1 discussions, sketches 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 personal protective equipment (PPE)
 - 5.3 respiratory protective equipment (RPE)
 - 5.4 local exhaust ventilation (LEV)

Information

- 6 drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and regulations governing the operation of plant or machinery

Legislation, Approved Codes of Practice and official guidance

- 7 this relates to the operative's responsibilities regarding potential accidents and health hazards whilst working in the workplace, below ground level, 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 or machinery, hand tools, ancillary equipment and/or accessories

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Methods of work

- 9 application of knowledge for safe work practices, procedures and skills, relating to the method/area of work and materials used, to
 - 9.1 identify the characteristics of the plant and machinery appropriate to the demolition and segregation operation
 - 9.2 carry out performance checks for the demolition and segregation operation
 - 9.3 identify the area to be demolished
 - 9.4 carry out pre-operational checks for obstructions, safety and security of the work and surrounding area
 - 9.5 check ground conditions to ensure the stability of plant or machinery during demolition activities
 - 9.6 avoid damage to surrounding structures and utilities
 - 9.7 demolish structures
 - 9.8 segregate and safely remove materials into stockpiles and/or containers
 - 9.9 shut down and secure plant or machinery
 - 9.10 fit and remove attachments using direct and quick-hitch type couplers
 - 9.11 use hand tools, ancillary equipment and accessories
- 10 team work and communication.
- 11 needs of other occupations associated with operating plant or machinery to demolish

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

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Resources

- 16 materials, components and equipment relating to types, quantity, quality and sizes of standard and/or specialist
 - 16.1 consumables, lubricants, fuels
 - 16.2 spill kits
 - 16.3 demolition plant, machinery or attachments
 - 16.4 hand tools, ancillary equipment and/or accessories.
- 17 methods of estimating weight, quantity, length and area associated with the method/procedure to operate plant or machinery to demolish structures and segregate, stockpile, remove and load materials

Security procedures

- 18 site, workplace, company and operative

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Developed by ConstructionSkills

Version number 2

Date approved January 2011

Indicative review date February 2016

Validity Current

Status Original

Originating organisation ConstructionSkills

Original URN VR385

Relevant occupations Mobile Machine Drivers and Operatives

Suite Demolition

Key words Functional checks; Setting-up; Demolish; Segregate; Stockpile; Load