

Operate plant or machinery to dismantle and/or demolish

Overview

This standard is about setting up, operating and shutting down plant or machinery for dismantling and/or demolishing structures and segregation work, interpreting information, adopting safe, healthy and environmentally responsible work practices, maintaining established exclusion zones, selecting and/or using materials, components, tools and equipment for plant or machinery operations

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

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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 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

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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

- K4 **communication** of ideas between team members
- K5 organisation of **resources** in conjunction with the progress of work

Performance Criteria 3

Safe work practices

- 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 types of **fire extinguishers** and how and when they are used
- 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 **personal protective equipment (PPE)** should be used
- K12 how to comply with environmentally responsible work practices to meet current **legislation and official guidance**

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Performance Criteria 4**

Request resources

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

Performance Criteria 5

Selection of resources

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

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

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

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Performance Criteria 8

Allocated time

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

Scope/range related to performance criteria

Performance Criteria 1

1 interpretation of drawings, specifications, schedules, method statements, risk assessments, permits to work, manufacturers' information and organisational requirements 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 complying with the given information relating to the following

4.1 methods of work

4.2 safe use of health and safety control equipment

4.3 safe use of access equipment

4.4 segregation and safe storage of demolished materials

4.5 safe use, storage and handling of plant or machinery, materials, tools and equipment

4.6 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:

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6.1 attachments, tools and equipment

Performance Criteria 6

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

Performance Criteria 7

- 10 demonstration of work skills to check, adjust, communicate, manoeuvre, position, dismantle, demolish, segregate, stockpile, remove and load
- 11 use and maintain hand tools, equipment and/or accessories
- 12 maintain established exclusion zones, operate plant or machinery to dismantle and/or 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 (arising and debris)

- 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

Fire extinguishers

- 4 water, CO₂, foam, powder and their uses

Hazards

- 5 those identified by risk assessments, methods of work, Control of Substances Hazardous to Health (COSHH) assessments, manufacturers' technical information, statutory regulations and official guidance

Health and safety control equipment

- 6 identified by the principles of prevention for occupational use, types and purpose of each type, work situations and general work environment

- 6.1 collective protective measures

- 6.2 personal protective equipment (PPE)

- 6.3 respiratory protective equipment (RPE)

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6.4 local exhaust ventilation (LEV)

Information

7 drawings, specifications, schedules, method statements, risk assessments, permits to work, site inductions, tool box talks, manufacturers' information, electronic data, official guidance and current regulations associated with the operation of plant and machinery for dismantling and demolishing tasks

Legislation, Approved Codes of Practice and official guidance

8 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

9 operative checks and care of plant or machinery, hand tools, equipment and consumables

Methods of work

10 application of knowledge for safe and healthy work practices, procedures and skills relating to the method and area of work and materials used to

10.1 identify the characteristics of the plant and machinery appropriate to the demolition and segregation operation

10.2 carry out performance checks for the demolition and segregation operation

10.3 identify the area to be dismantled and demolished

10.4 maintain established exclusion zones and designated areas

10.5 carry out pre-operational checks for obstructions, safety and security of the work and surrounding area

10.6 check ground conditions to ensure the stability of plant or machinery during dismantling and demolishing activities

10.7 avoid damage to surrounding structures and utilities

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- 10.8 dismantle and demolish structures
- 10.9 segregate and safely remove materials into stockpiles and/or containers
- 10.10 provide information for Building Information Modelling (BIM)
- 10.11 recognise and determine when specialist skills and knowledge are required and report accordingly
- 10.12 determine specific requirements for structures of special interest, traditional build (pre 1919) and historical significance
- 10.13 work with, around and in close proximity to plant, machinery and pedestrian operatives
- 10.14 direct and guide the operations and movement of plant and machinery
- 10.15 shut down and secure plant or machinery
- 10.16 fit and remove attachments using direct and quick-hitch type couplers
- 11 how to ensure team work and communication
- 12 needs of other occupations associated with operating plant or machinery to dismantle and demolish

Problems

- 13 those arising from information, resources and methods of work
 - 13.1 own authority to rectify
 - 13.2 organisational reporting procedures

Programme

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

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Protect work

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

Resources

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

18.1 consumables, lubricants, fuels

18.2 spill kits

18.3 demolition plant, machinery and attachments

18.4 demolition tools, equipment and consumables

19 confirm resources and materials conform with the specification

20 methods of estimating weight, quantity, length and area associated with the method and procedure to operate plant or machinery to dismantle and demolish and segregate, stockpile, remove and load components and materials

Security procedures

21 project, site, workplace, company and operative, vehicles, tools and plant

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