


## National Occupational Standards

**Sector:** Building and Construction

**Occupation:** Demolition Plant Supervisor  
(with the required licences to operate mobile plant equipment)

**MQF Level:** 4

 **National Occupational Standards do not replace any licenses or permissions required to operate certain machinery or to work in certain positions.**

### Units:

- **DEM41** - Carry out health and safety requirements in the workplace
- **DEM33** - Operate portable powered plant and equipment in the workplace
- **DEM42** - Supervise and operate mobile plant equipment to remove and separate demolished materials in the workplace
- **DEM43** - Ensure good progress of work operations
- **DEM44** - Supervise demolition works

### **DEM41 - Carry out health and safety requirements in the workplace**

This unit lists the knowledge and skills required by a person holding this position to carry out safe work activities in compliance with health and safety activities.

Upon completion of this unit, the persons carrying out this work will possess the necessary knowledge and skills to carry out and maintain health and safety procedures which ensure that their actions do not create health and safety risks to others.

#### **Performance Criteria**

The candidate must have the necessary knowledge and skills to:

1. Carry out safe working practices in accordance with the workplace health and safety regulations
2. Identify potential hazards arising from work practices and take the necessary corrective actions
3. Follow the correct procedures in the event of hazards or injury or ill health
4. Allocate appropriate and sufficient equipment and resources to meet work and statutory requirements
5. Carry out and monitor health and safety welfare and security within the operational work environment

#### **Required Knowledge**

The Level 4 Demolition Plant Supervisor must know and explain:

1. Their roles and responsibilities under the Health and Safety Act as amended by Act XXXV11 of 2007 or any subsequent current legislation
2. Their health concerns associated within the workplace and safe practices when carrying out work activities
3. The importance of co-operating with their employer on matters related to health and safety to safeguard their own wellbeing and of those others affected by their work activities
4. The organisational policies and procedures regarding legislation, official guidance, instruction, and information which needs to be complied with
5. The requirements for fulfilling the duties of appointed persons in terms of workplace (First Aid) regulations LN11/2002 or any subsequent current legislation
6. The potential hazards in the workplace such as; electricity and other utility services,

hazardous and non-hazardous substances, waste materials, working at height, work equipment, access equipment, fire risks, manual handling, proximity, third party hazards, and changing weather conditions

7. Identify how changing circumstances could increase hazards at the workplace
8. Methods of allocating equipment and resources relating to protective clothing and equipment, welfare facilities, storage and security of materials, tools and equipment
9. Personal responsibility for behaviour of health, safety and welfare on site and the consideration of others
10. Reasons for promoting a positive health and safety culture in the workplace
11. The effect of any toxic or hazardous substances detected on site to be used and what precautions need to be taken
12. The risks to health within a construction environment – substances hazardous to health – drugs, alcohol, chemicals, solvents
13. The importance of correct storage of combustibles and chemicals on site
14. To identify and recommend opportunities to improve health and safety in the workplace
15. How to work around mobile plant and equipment on site, keeping safe distances away from any/ other working machinery
16. Procedures for dealing with accidents and emergencies associated with the workplace and environment
17. Reasons for regularly checking operational health safety and welfare in the operational work environment
18. Methods and techniques for checking team members health and safety requirements, and health and safety duties e.g. welfare facilities, work equipment and resources, hazards and risk control procedures
19. The arrangements for checking security and operational arrangements in the workplace for workers, visitors, unauthorised personnel, and the public
20. Different methods of reporting and communicating any team performance, health, safety and welfare issues
21. Organisational requirements, systems and procedures for checking and maintaining health safety and welfare in the workplace

#### **Required Skills**

The Level 4 Demolition Plant Supervisor must be able to:

1. Comply with their individual duties and legal obligations under the Health and Safety Act

XXXV11 of 2007 or any subsequent current legislation

2. Work according to health and safety regulations and other relevant regulations that apply to the work requirements
3. Comply with safe working practices in accordance with organisational procedures
4. Identify any hazards and hazardous materials associated with workplace activities
5. Report any hazards and risks and changing circumstances in accordance with organisational procedures
6. Carry out any actions to deal with any changing circumstances to maintain health, safety and welfare in the workplace
7. Report near misses and accidents in accordance with organisational and statutory requirements
8. Recognise emergency situations and report them in accordance with organisational requirements
9. Make/facilitate arrangements for health, safety and welfare requirements in the workplace
10. Select and use Personal Protective Equipment (PPE) and respiratory equipment (RPE) to carry out work duties
11. Arrange and allocate Personal Protective Equipment (PPE) and Respiratory Equipment (RPE) for team members to carry out work duties
12. Arrange and allocate resources, tools and equipment for team members in the workplace
13. Carry out work and make provision to protect work areas, proximity and third party from damage
14. Demonstrate good personal behaviour for workplace health, safety and welfare
15. Ensure that all staff on site comply with the security arrangements and procedures that should be observed and followed when working on site
16. Ensure that all staff on site comply with the organisational health, safety and welfare procedures

**DEM33 - Operate portable powered plant and equipment in the workplace**

This unit lists the knowledge and skills required by a person holding this position to carry out activities in operating powered plant and equipment in the workplace.

Upon completion of this unit the persons carrying out this work will possess the necessary knowledge and skills to prepare, position and set up the portable powered plant, tools and equipment for work, carry out pre and post use functional checks and operate, use and control the tools and equipment in accordance with work requirements and organisational procedures.

**Performance Criteria**

The candidate must have the necessary knowledge and skills to:

1. Interpret given information relating to the requirements for setting up and using powered plant and equipment and portable power tools
2. Carry out safe working practices
3. Select portable powered plant and equipment, power source, fuels lubricants and consumables
4. Set up and operate portable powered plant, tools and equipment to carry out various work activities

**Required Knowledge**

The Level 4 Demolition Plant Supervisor must know and explain:

1. The types of information applicable to the operation and use of powered plant and equipment, portable power tools, operating instruction manuals, safety literature, risk assessments and organisational instructions
2. The health and safety requirements associated with using powered plant and equipment and portable power tools - e.g. different power sources and attachments
3. The protective clothing and equipment to be worn (PPE and RPE) when using powered plant and portable power tools
4. The safety checks that need to be carried out on portable power tools prior to connecting to supply source
5. The actions to be taken if powered plant equipment and power tools are found to be faulty or defective
6. The different types of powered plant, portable plant and attachments and how they are prepared and set up for use
7. The requirements for supply lines, routing, position, lengths of cables, hoses
8. Methods and requirements for fitting drill bits, tooling, and attachments

9. Methods and safety requirements for the fitting of abrasive wheels
10. Operating procedures for starting and stopping different power sources - engines; pneumatic, hydraulic, electrical and cordless powered tools and equipment
11. The necessary precautions to be taken to prevent injury when using hand held portable power tools
12. Basic maintenance requirements to items of powered plant and equipment
13. Different types of fuels, lubricants and coolants used on powered plant and equipment
14. The purpose and reason for identifying, selecting and using the correct item of powered plant and equipment/portable power tool to carry out the work requirements

#### **Required Skills**

The Level 4 Demolition Plant Supervisor must be able to:

1. Interpret and obtain information for the safe use and operation of powered plant and equipment
2. Conform with information acquired from manufacturers' machine operator manuals, risk assessments, organisational instructions and procedures and risk assessments related to the work being undertaken
3. Use the correct PPE and RPE when operating plant, equipment and portable power tools
4. Carry out functional and safety checks of plant equipment and portable power tools and equipment prior to use
5. Report faults and defects with plant and equipment in accordance with organisational procedures
6. Select, prepare and set up powered plant and equipment and their associated cables, hoses, tooling for work activities cables/hoses, tooling for operation;
7. Select, prepare and set up portable power tools and their associated tooling and attachments in accordance with manufacturer's instructions and recommendations to carry out work activities
8. Remove and fit abrasive wheels and discs, securing accessories and tool attachments
9. Carry out pre and post start checks on powered plant equipment and portable power tools
10. Operate powered plant and equipment and portable power tools safely to carry out work activities
11. Replenish fuels, lubricants and fluids in accordance with operating and maintenance requirements

12. Carry out basic maintenance to plant equipment, portable power tools and attachments
13. Comply with manufacturers' and organisational instructions and procedures for maintaining portable, powered plant, tools and equipment

**DEM42 - Supervise and operate mobile plant equipment to remove and separate demolished materials in the workplace**

This unit lists the knowledge and skills needed by a person holding this position to carry out activities in using and/or supervising the use of heavy plant equipment (360 degree tracked excavator above and below 10 tonnes) to remove and segregate materials for disposal or recycling in the workplace.

Upon completion of this unit, the persons carrying out this work will possess the necessary knowledge and skills to prepare, operate and/or supervise the use of mobile plant to remove, separate, stockpile and load materials for disposal, processing and/or recycling components for disposal in accordance with demolition work requirements and procedures.

**Performance Criteria**

The candidate must have the necessary knowledge and skills to:

1. Interpret and/or instruct given information relating to the requirements for using mobile plant to remove and segregate materials
2. Carry out safe working practices
3. Select materials, tools and equipment to carry out the separation of materials
4. Prepare, set up and operate and/or supervise the use mobile plant equipment to remove and segregate materials
5. Ensure all mobile plant equipment on site is shut down properly
6. Conform to organisational instructions and procedures to reduce the risk of damage in the workplace and surrounding areas
7. Conform to organisational instructions and procedures to carry out the work efficiently and to specification

**Required Knowledge**

The Level 4 Demolition Plant Supervisor must know and explain:

1. The different types of organisational information such as: method statements, risk assessments, instructions, procedures, specifications, manufacturers information, operator handbooks
2. The organisational information extracted from method statements, risk assessments, procedures
3. The organisational procedures for rectifying and reporting any inaccuracies with given information
4. One's own responsibilities under current legislation and organisational requirements



whilst working on site

5. The importance of understanding site clearance methods and procedures prior to commencement of any excavation work, such as: soil removal, and any permit requirements for the removal of trees
6. Dismantling, separating, storing of materials and equipment by host machine and the use of attachments
7. The use of lifting and handling equipment and access equipment
8. The purpose of health and safety equipment and the reasons for why and when it needs to be used, for collective and individual measures
9. The different types of Personal Protective Equipment (PPE) and, Respiratory Equipment (RPE)
10. The potential risk and hazards associated with operating mobile plant for separating demolished material - such as, proximity hazards, obstructions, pedestrians
11. The checks that need to be carried out prior to and during operating the machine, pre-start checks, functional checks
12. The types of demolished materials that are to be removed and separated for disposal and recycling
13. The reasons why disposal of waste should be carried out safely in accordance with environmental, organisational, and statutory requirements
14. The different types of attachments for removing and separating demolished materials, such as. buckets (standard and non-standard) breakers, and shears
15. The capabilities and limitations of different attachments
16. The reasons for preparing, setting up and positioning the machine for demolition activities
17. The procedures for extracting, separating and removing materials
18. The reasons for protecting the workplace and surrounding areas when removing, separating and loading loose demolition materials
19. The reasons for carrying out basic operator maintenance and adjustments on the relevant machine
20. The replenishment and application procedures for fuels, coolants and lubricants
21. The reasons for shutting down, securing and isolating the relevant machine on completion of work
22. The organisational requirements for reporting problems with the machine and work methods

23. The importance of communicating and liaising with colleagues and other occupations when carrying out demolition work activities

24. Reasons for ensuring work is carried out to meet the specification

#### **Required Skills**

The Level 4 Demolition Plant Supervisor must be able to:

1. Interpret and obtain appropriate information from method statements, risk assessments, drawings, procedures, specifications, manufacturers information and operator handbooks
2. Comply with organisational procedures for rectifying and reporting inaccuracies with supplied information
3. Comply with information and procedures taken from risk assessments, method statements, current legislation and organisational procedures
4. Select and use Personal Protective Equipment (PPE), Respiratory Equipment (RPE) for machine operating and site activities
5. Ensure that subordinates use health and safety equipment correctly and safely
6. Carry out pre-start and functional checks on the machine
7. Carry out pre-operational checks for ground conditions, stability, proximity hazards, obstructions, traffic routes, pedestrians, other activities and surrounding work area
8. Protect areas to avoid damage from work activities
9. Communicate with other work colleagues, line management, subordinates, and other occupations throughout the removal and separation of demolished materials
10. Ensure that the plant machine is prepared and set up for demolition work activities
11. Operate the machine laden and unladen to travel, position and manoeuvre over various types of ground
12. Operate the machine to remove, separate, load and unload materials,
13. Form stockpiles of segregated waste and re-usable material
14. Use attachments to remove, separate, load and cut loose demolition materials for disposal, recycling and processing
15. Replenish fuels and lubricants and maintain the plant machine in accordance with organisational procedures
16. Carry out basic operator maintenance and adjustments on the machine in accordance with organisational procedures
17. Ensure that work is completed productively and safely to the specification and within

allocated timescale

18. Report any problems that may affect the work programme in accordance with organisational procedures
19. Shut down and isolate the machine and carry out post start checks on completion of work activities

### **DEM43 - Ensure good progress of work operations**

This unit lists the knowledge and skills required by a person holding this position to ensure the safe, efficient and effective control of resources and work activities and operations are in accordance with organisational requirements.

Upon completion of this unit the persons carrying out this work will possess the skills to co-ordinate and organise work activities and operations in accordance with organisational instructions and procedures.

#### **Performance Criteria**

The candidate must have the necessary knowledge and skills to:

1. Organise work activities to comply with instructions and the work programme
2. Organise work activities and work areas to minimise health and safety hazards and risks
3. Organise resources for work activities and check they are available for use
4. Co-ordinate and communicate work activities with relevant personnel and work requirements
5. Identify and Initiate corrective actions where operational requirements are not met
6. Organise, check and store materials, components and equipment efficiently to minimise wastage
7. Complete work activities in accordance with organisational procedures and agreed timescales

#### **Required Knowledge**

The Level 4 Demolition Plant Supervisor must know and explain:

1. The organisational approved policies, procedures and practices relative to the work processes, activities and information relating to contracts and who will be informed and affected by the work programme
2. The organisation's rectifying and reporting procedures of inappropriate/inaccurate information
3. Their personal responsibilities under health and safety, environmental statutory requirements to colleagues, subordinates, visitors and members of the public associated with the work activities
4. How to organise and co-ordinate work with other work activities and operations
5. The methods of communication and terminology used for the work activities within the workplace

6. The methods and procedures used in the organisation for obtaining, exchanging, reporting and recording information
7. The methods used for monitoring the work programme and the sequence of work operations
8. Methods for identifying, planning, preparing, organising and obtaining sufficient resources for the work activities
9. The purpose of health and safety equipment and reasons for why and when it needs to be used for collective protective measures, Personal Protective Equipment (PPE), Respiratory Equipment (RPE)
10. Procedures for informing relevant personnel, superiors, architect in charge, or any relevant authorities of situations, practices or circumstances that could or may be hazardous to the workplace or environment as necessary
11. How to protect the workplace, surrounding area and services from damage
12. The special site requirements relating to the work operations – site access, egress, existing utility services, operational area conditions, transport routes, security and waste disposal requirements
13. How to organise and co-ordinate the workplace and resources so that conditions are safe and tidy
14. The organisational procedures for safe storage and security of resources
15. Organisational lines and methods of effective communication
16. The limits of their responsibility within their organisation
17. The methods for suggesting how work processes and/or activities can be improved
18. How to ensure work is carried out productively and meets the required specification
19. The work procedures, operational standards and efficiency targets

#### **Required Skills**

The Level 4 Demolition Plant Supervisor must be able to:

1. Co-ordinate and/or organise the work activities to comply with organisational policies, procedures and statutory requirements

2. Pass on information to superiors or subordinates as necessary
3. Interpret the work programme and its requirements
4. Interpret method statements, risk assessments, work procedures and methods of work for activities to be carried out
5. Communicate work arrangements to the relevant personnel as applicable to commencement date, timescale and completion date
6. Record information to comply with organisational requirements for arrangements for work to be carried out, commencement and finish of contract
7. Communicate with site personnel and establish work programmes and methods and sequences of work applicable to the work requirements
8. Co-ordinate and agree work programmes with other occupations applicable to work operational requirements
9. Plan own workload and that of subordinates to meet the requirements of other occupations and the programme of work
10. Record information on resources requested and obtained
11. Use organisational systems to control resources to maintain site tidiness and dispose of waste in accordance with organisational and statutory requirements
12. Comply with the lines and methods of communication used by employees, peers, subordinates and immediate supervisors in accordance with organisational procedures
13. Identify, record and pass on information on any special considerations to persons who could be affected
14. Use relevant procedures to record any special considerations identified within the workplace for occupiers, public access, site access, egress, existing utility services, operational area, transport routes and waste disposal requirements
15. Identify, plan and co-ordinate relevant site storage and security arrangements in accordance with organisational procedures and statutory requirements
16. Ensure compliance with organisational recording arrangements for storage and efficient use of materials, components and security operations
17. Comply with organisational reporting and recording procedures against changes in normal programme requirements
18. Comply with organisational procedures for suggesting improvements to work processes and

methods

19. Ensure that regular checks are carried out on the storage of materials, components and equipment

### **DEM44 - Supervise demolition works**

This unit lists the knowledge and skills required by a person holding this position to supervise all activities for demolishing/dismantling structures up to 20 metres in the workplace.

Upon completion of this unit the persons carrying out this work will possess the necessary knowledge and skills to supervise works and operations to demolish and/or dismantle brick, masonry, concrete and steel structures for disposal and/or recycling in accordance with work requirements and organisational procedures.

#### **Performance Criteria**

The candidate must have the necessary knowledge and skills to:

1. Interpret given information for the supervision of equipment to demolish and dismantle structures
2. Carry out safe working practices
3. Select materials, tools and equipment to carry out demolition and dismantling work activities
4. Prepare, set up and supervise different operations for carrying out demolition and dismantling activities
5. Ensure that mobile plant equipment are properly shut down
6. Conform to organisational instructions and procedures to reduce the risk of damage in the workplace and surrounding areas
7. Conform to organisational procedures to carry out the work efficiently, productively and to specification

#### **Required Knowledge**

The Level 4 Demolition Plant Supervisor must know and explain:

1. The different types of information sources: method statements, risk assessments oral and written information, drawings, specifications, manufacturers' information and operator handbooks
2. The organisation's rectifying and reporting procedures of inappropriate/inaccurate information
3. One's own responsibilities and that of subordinates under current legislation and organisational requirements as necessary
4. The purpose of health and safety equipment and the reasons for why and when it needs to be used for collective and personal protective measures
5. The different types of Personal Protective equipment (PPE), respiratory protective equipment (RPE)



6. Organisational security procedures for plant machinery, attachments, tools and equipment
7. Hazards and potential hazards associated with using high reach mobile plant to demolish and dismantle structures
8. The areas within the structure that need to be identified and checked prior to starting the demolition and dismantling activity
9. The checks that need to be made prior to operating the machine - obstructions, ground conditions, proximity hazards
10. The need for using raised working platforms to demolish certain types of structures
11. The different types of attachments that will be required to demolish existing structures, such as heavy breakers, shears, pulverisers,
12. The types of standard and non- standard attachments, their capabilities and limitations
13. How attachments are fitted to the host machine- quick hitch and non- direct
14. The importance of checking the security of attachments before and during use
15. The reasons for preparing, setting up and positioning the machine for demolition activities
16. The method and sequence of machine operation for demolishing and dismantling existing concrete and masonry structures
17. How to protect the workplace, surrounding area, third parties, and existing services from damage from the demolition activities
18. Procedures for suppressing and controlling dust on site and surrounding area(s)
19. Purpose of drop zones and work exclusion zones
20. How to separate materials for disposal; waste/recycling using appropriate attachments
21. Reasons for stockpiling demolition materials for disposal, re-use and recycling
22. How to ensure that basic Operator maintenance and adjustments on the relevant machine are carried out properly
23. The replenishment and application procedures for fuel, coolants and lubricants
24. The reasons for shutting down, securing and isolating the relevant machine on completion of work
25. The importance of communicating and liaising with work colleagues and other occupations when carrying out demolition and dismantling activities
26. Reasons for ensuring work is carried out meet the required specification

**Required Skills**

The Level 4 Demolition Plant Supervisor must be able to:

1. Interpret and obtain appropriate information from method statements, risk assessments, drawings, organisational procedures, specifications, manufacturers' information and operator handbooks
2. Comply with organisational procedures for rectifying and reporting inaccuracies with supplied information
3. Comply with information and procedures taken from risk assessments, method statements and organisational procedures
4. Select and use relevant PPE and/or RPE to carry out demolition and dismantling activities
5. Safely use health and safety control equipment
6. Carry out checks on ground conditions and proximity hazards prior to undertaking demolishing and dismantling activities
7. Protect areas to avoid and minimise damage from work activities
8. Communicate with other work colleagues, line management and other occupations prior to, during and throughout the demolition process
9. Ensure and instruct that pre– start and functional checks on the plant machinery are carried out
10. Ensure/instruct the preparation, set up and configuration of the plant machinery for demolition work
11. Ensure that the agreed method and sequence for operating the machine and attachments are properly followed to demolish existing structures
12. Supervise the operation of the machine laden and unladen over various types of ground
13. Supervise/instruct that basic operator maintenance and adjustments to the machine are carried out in accordance with organisational procedures
14. Ensure/instruct that fuel, lubricants and fluids on the plant machine are replenished in accordance with organisational procedures
15. Ensure/instruct the operation of the plant machine to separate, stockpile, remove and load materials
16. Report any problems that may affect the work programme in accordance with organisational procedures
17. Ensure/instruct the productive and safe completion of work following the required specification and within the allocated timescale
18. Ensure that post start checks are properly carried out, and that all plant machinery is shut down, isolated and secured upon completion of work

