



This version of this unit replaces all previously published versions with effect from January 2012. This unit should be used by all learners registering for qualifications that include it in their structure from this date.

**Unit title:** **Operating demolition plant or machinery to demolish structures up to 15 metres in the workplace**

**Unit reference number:** R/503/3121

**QCF level:** 2

**Credit value:** 45

**Guided learning hours:** 150

**Start date:** January 2012

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### Unit summary

The aim of this unit is to develop the skills, knowledge and understanding required to confirm competence in operating demolition plant or machinery to demolish structures up to 15 metres in the workplace, within the relevant sector of industry.

### Assessment requirements/evidence requirements

This unit must be assessed in a work environment, in accordance with:

- the Additional Requirements for Qualifications using the title NVQ in QCF
- the ConstructionSkills' Consolidated Assessment Strategy for Construction and the Built Environment.

Assessors for this unit must have verifiable, current industry experience and a sufficient depth of relevant occupational expertise and knowledge, and must use a combination of assessment methods as defined in the Consolidated Assessment Strategy.

Workplace evidence of skills cannot be simulated.

## Assessment recording

This unit is assessed in the workplace. The table on the following pages shows the learning outcomes and the assessment criteria for this unit. The table includes space for learners to enter the types of evidence they are presenting for assessment and the submission date against each assessment criterion. Alternatively, centres can use their own documentation.

## Learning outcomes and assessment criteria

| Learning Outcome |                                                                                                                                           | Assessment Criterion | Evidence type                                                                                                                                                                                                                                                                                                              | Portfolio reference | Date |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|------|
| 1                | Interpret the given information relating to the use of demolition plant or machinery when demolishing structures.                         | 1.1                  | Interpret and extract relevant information from drawings, specifications, schedules, method statements, risk assessments and manufacturers' information.                                                                                                                                                                   |                     |      |
|                  |                                                                                                                                           | 1.2                  | Comply with information and/or instructions derived from risk assessments and method statements.                                                                                                                                                                                                                           |                     |      |
|                  |                                                                                                                                           | 1.3                  | State the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented.                                                                                                                                                                       |                     |      |
|                  |                                                                                                                                           | 1.4                  | Describe different types of information, their source and how they are interpreted in relation to: <ul style="list-style-type: none"> <li>- drawings, specifications, schedules, method statements, risk assessments, manufacturers' information and regulations governing the operation of plant or machinery.</li> </ul> |                     |      |
| 2                | Organise with others the sequence and operation in which demolition operations using demolition plant or machinery are to be carried out. | 2.1                  | Organise the work according to given information or instructions.                                                                                                                                                                                                                                                          |                     |      |
|                  |                                                                                                                                           | 2.2                  | Describe how to communicate ideas between team members.                                                                                                                                                                                                                                                                    |                     |      |
|                  |                                                                                                                                           | 2.3                  | Organise and communicate with team members and other associated occupations.                                                                                                                                                                                                                                               |                     |      |
|                  |                                                                                                                                           | 2.4                  | State how to organise resources prior to and during demolition operations.                                                                                                                                                                                                                                                 |                     |      |

| Learning Outcome                                                                                                                                | Assessment Criterion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Evidence type | Portfolio reference | Date |
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| 3<br>Know how to comply with relevant legislation and official guidance to carry out demolition operations using demolition plant or machinery. | <p>3.1 Describe their responsibilities under current legislation and official guidance whilst working:</p> <ul style="list-style-type: none"> <li>- 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.</li> </ul> <p>3.2 Describe the organisational security procedures for tools, equipment and personal belongings in relation to site, workplace, company and operative.</p> <p>3.3 Explain what the accident reporting procedures are and who is responsible for making reports.</p>                                                                                                                                                                                |               |                     |      |
| 4<br>Maintain safe working practices when carrying out demolishing operations using demolition plant or machinery.                              | <p>4.1 Use health and safety control equipment safely to carry out the activity in accordance with legislation and organisational requirements when demolishing structures up to 15 metres using demolition plant or machinery.</p> <p>4.2 Explain why and when health and safety control equipment, identified by the principles of protection, should be used relating to demolishing structures up to 15 metres using demolition plant or machinery, and the types, purpose and limitations of each type, the work situation and general work environment, in relation to:</p> <ul style="list-style-type: none"> <li>- collective protective measures</li> <li>- personal protective equipment (PPE)</li> <li>- respiratory protective equipment (RPE)</li> <li>- local exhaust ventilation (LEV).</li> </ul> |               |                     |      |

| Learning Outcome                                                                                                                             | Assessment Criterion                                                                                                                                                                                                                                                                                                                                                 | Evidence type | Portfolio reference | Date |
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|                                                                                                                                              | 4.3 Describe how the relevant health and safety control equipment should be used in accordance with the given instructions.                                                                                                                                                                                                                                          |               |                     |      |
|                                                                                                                                              | 4.4 State how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with fires, spillages, injuries and other task-related hazards.                                                                                                                                                                   |               |                     |      |
| 5 Request and select the required quantity and quality of resources to carry out demolishing operations using demolition plant or machinery. | 5.1 Request and select resources associated with own work in relation to consumables, materials, attachments, tools, accessories and/or ancillary equipment.                                                                                                                                                                                                         |               |                     |      |
|                                                                                                                                              | 5.2 Describe the characteristics, quality, uses, sustainability, limitations and defects associated with the resources in relation to: <ul style="list-style-type: none"> <li>- consumables, lubricants, fuels</li> <li>- spill kits</li> <li>- demolition plant, machinery or attachments</li> <li>- hand tools, ancillary equipment and/or accessories.</li> </ul> |               |                     |      |
|                                                                                                                                              | 5.3 Describe how the resources should be used correctly and how problems associated with the resources are reported.                                                                                                                                                                                                                                                 |               |                     |      |
|                                                                                                                                              | 5.4 Explain why the organisational procedures have been developed and how they are used for the selection of required resources.                                                                                                                                                                                                                                     |               |                     |      |

| Learning Outcome                                                                                                                | Assessment Criterion                                                                                                                                                                                                      | Evidence type | Portfolio reference | Date |
|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|------|
|                                                                                                                                 | 5.5 Describe any potential hazards associated with the resources and method of work.                                                                                                                                      |               |                     |      |
|                                                                                                                                 | 5.6 Describe how to estimate 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.             |               |                     |      |
| 6 Minimise the risk of damage to the work and surrounding area when demolishing structures using demolition plant or machinery. | 6.1 Protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures.                                                                                        |               |                     |      |
|                                                                                                                                 | 6.2 Minimise damage and maintain a clean work space.                                                                                                                                                                      |               |                     |      |
|                                                                                                                                 | 6.3 Dispose of waste in accordance with legislation.                                                                                                                                                                      |               |                     |      |
|                                                                                                                                 | 6.4 Describe how to protect work from damage and the purpose of protection in relation to general workplace activities, other occupations and adverse weather conditions.                                                 |               |                     |      |
|                                                                                                                                 | 6.5 Explain why the disposal of waste should be carried out safely in accordance with environmental responsibilities, organisational procedures, manufacturers' information, statutory regulations and official guidance. |               |                     |      |
| 7 Complete the work within the allocated time when demolishing structures using demolition plant or machinery.                  | 7.1 Demonstrate completion of the work within the allocated time.                                                                                                                                                         |               |                     |      |

| Learning Outcome                                                                                                                                                 | Assessment Criterion                                                                                                                                                                                                                                                                                                         | Evidence type | Portfolio reference | Date |
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|                                                                                                                                                                  | 7.2 State the purpose of the work programme and describe why deadlines should be kept in relation to:<br><ul style="list-style-type: none"> <li>- types of progress charts, timetables and estimated times</li> <li>- organisational procedures for reporting circumstances which will affect the work programme.</li> </ul> |               |                     |      |
| 8 Comply with the given contract information to demolish structures up to 15 metres in height using demolition plant or machinery to the required specification. | 8.1 Demonstrate the following work skills when demolishing structures up to 15 metres using demolition plant or machinery:<br><ul style="list-style-type: none"> <li>- adjusting, checking, communicating, manoeuvring, positioning, demolishing, segregating, stockpiling, removing and loading.</li> </ul>                 |               |                     |      |
|                                                                                                                                                                  | 8.2 Operate demolition plant or machinery to demolish structures up to 15 metres to given working instructions.                                                                                                                                                                                                              |               |                     |      |
|                                                                                                                                                                  | 8.3 Segregate, stockpile, remove and load materials to given working instructions.                                                                                                                                                                                                                                           |               |                     |      |
|                                                                                                                                                                  | 8.4 Safely use plant or machinery, hand tools, ancillary equipment and/or accessories.                                                                                                                                                                                                                                       |               |                     |      |
|                                                                                                                                                                  | 8.5 Shut down and secure the plant or machinery to given instructions.                                                                                                                                                                                                                                                       |               |                     |      |
|                                                                                                                                                                  | 8.6 Safely store the materials, plant or machinery, tools and equipment used when demolishing structures up to 15 metres using demolition plant or machinery.                                                                                                                                                                |               |                     |      |

| Learning Outcome | Assessment Criterion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Evidence type | Portfolio reference | Date |
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|                  | <p>8.7 Describe how to apply safe work practices, follow procedures, report problems and establish authority needed to rectify, to:</p> <ul style="list-style-type: none"> <li>- identify the characteristics of the plant and machinery appropriate to the demolition and segregation operation</li> <li>- carry out performance checks for the demolition and segregation operation</li> <li>- identify the area to be demolished</li> <li>- carry out pre-operational checks for obstructions, safety and security of the work and surrounding area</li> <li>- check ground conditions to ensure the stability of plant or machinery during demolition activities</li> <li>- avoid damage to surrounding structures and utilities</li> <li>- demolish structures</li> <li>- segregate and safely remove materials into stockpiles and/or containers.</li> </ul> |               |                     |      |
|                  | <p>8.8 Describe how to apply safe work practices, follow procedures, report problems and establish authority needed to rectify, to:</p> <ul style="list-style-type: none"> <li>- shut down and secure plant or machinery</li> <li>- fit and remove attachments using direct and quick-hitch type couplers</li> <li>- use hand tools, ancillary equipment and accessories.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |               |                     |      |



| Learning Outcome | Assessment Criterion |                                                                                                                                                            | Evidence type | Portfolio reference | Date |
|------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------------|------|
|                  | 8.9                  | Describe the needs of other occupations and how to effectively communicate within a team when preparing for and carrying out demolishing operations.       |               |                     |      |
|                  | 8.10                 | Describe how to maintain the plant or machinery, tools and equipment used when demolishing structures up to 15 metres using demolition plant or machinery. |               |                     |      |

Learner name: \_\_\_\_\_ Date: \_\_\_\_\_

Learner signature: \_\_\_\_\_ Date: \_\_\_\_\_

Assessor signature: \_\_\_\_\_ Date: \_\_\_\_\_

Internal verifier signature: \_\_\_\_\_ Date: \_\_\_\_\_  
(if sampled)