Title
Demonstrate knowledge of hazard identification and control for the demolition of simple structures

Level
4

Credits
8

Purpose
People credited with this unit standard are able to: describe hazards and potential sources of harm associated with the demolition of simple structures; describe legislative requirements for the demolition of simple structures; identify and assess hazards on a selected simple structure; and develop and monitor structural hazard management plans.

Classification
Civil Works and Services > Demolition

Available grade
Achieved

Guidance Information

1 Definitions

A simple structure – one associated with domestic light commercial or industrial projects including building structures, site works, drainage, and roading;

Industry practice - accepted procedures, whether documented or not, used by an industry or industry sector in relation to the performance criteria specified in this unit standard;

Organisational requirements – documented procedures and/or specifications relating to products, processes, practices and activities within the organisation as well as oral instructions from authorised organisation representatives;

Workplace – building and construction environments where demolition skills are required, including single or multi-storey structures.

2 The following legislation, manuals, codes, specifications and their subsequent amendments must be complied with:

Building Act 2004;

Hazardous Substances and New Organisms Act 1996;

Health and Safety at Work Act 2015;

Health and Safety in Employment (Asbestos) Regulations 2016;

Health and Safety in Employment Regulations 1995;

Historic Places Act 1993;

Resource Management Act 1991;

Excavation Safety – Good practice guidelines;

Scaffolding in New Zealand – Good Practice Guidelines; and


BS: 6187:2011 Code of practice for full and partial demolition;

AS/NZS 4576:1995 Guidelines for scaffolding;

NZS 1170 Structural Design Actions Set;

3 In the context of this unit standard demolition work excludes underwater work, and the demolition of bridges.

### Outcomes and performance criteria

**Outcome 1**

Describe hazards and potential sources of harm associated with demolition of simple structures.

**Range** hazards include potential harm to – people, the environment, product quality and property.

**Performance criteria**

1.1 Potential sources of harm to people associated with the demolition of simple structures are described in terms of their causes and effects.

**Range** causes – collapse of structure, trapping points, entanglement, friction hazards, cutting hazards; effects - injury, health, quality of life.

1.2 Hazards associated with the demolition of simple structures are identified and described according to organisational requirements.

**Range** loading, access, sequence.

**Outcome 2**

Describe legislative requirements for the demolition of simple structures.

**Performance criteria**

2.1 The hierarchy of steps associated with hazard control is described in terms of the requirements of the Health and Safety at Work Act 2015.

**Range** eliminate, isolate, minimise.

2.2 Duties of personnel involved with managing structural hazards are described in terms of organisational requirements, and the Health and Safety in Employment Regulations 1995.

**Range** duties include – the assessment of load bearing structures for safe working environments and structural integrity.
Outcome 3

Identify and assess hazards associated with the demolition of a selected simple structure.

Performance criteria

3.1 Hazards are identified and described according to organisational requirements and industry practice.

Range hazards include – structural, mechanical, electrical, environmental, health; methods of identification by - area, task or process analysis, accident or incident investigation, hazard notification procedures, Safety Data Sheets (SDS), engineer’s report.

3.2 Hazards are assessed for significance in accordance with organisational requirements and industry practice.

3.3 Hazard management options are evaluated in terms of their effectiveness for a given situation in accordance with organisational requirements, and ease and likelihood of achieving the desired outcome.

Outcome 4

Develop and monitor structural hazard management plans.

Range evidence is required for two plans.

Performance criteria

4.1 Plan specifies procedures to manage identified hazards on demolition site and is documented in accordance with organisational requirements.

Range plans may include reference to – engineer’s report, engineering intervention, process changes, training, personal protective equipment.

4.2 People who can carry out the hazard management actions are identified in the plan and trained in accordance with organisational requirements.

4.3 Monitoring of the effectiveness of hazard management plans determines the requirements for changes to organisation documents, and documents are updated in accordance with organisational and legislative requirements.

Range organisation documents may include but are not limited to - standard operating procedures, hazard register, training records, accident register, incident register. evidence is required for two documents.
This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

### Status information and last date for assessment for superseded versions

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**Consent and Moderation Requirements (CMR) reference**

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