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

level: 4
credit: 8
planned review date: November 2005
sub-field: Civil Works and Services

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.

entry information: Open.

accreditation option: Evaluation of documentation and visit by NZQA and industry.

moderation option: A centrally established and directed national moderation system has been set up by Infrastructure ITO.

special notes: 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, codes, specifications, and their subsequent amendments must be complied with: Building Act 1991;
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Hazardous Substances and New Organisms Act 1996;
Health and Safety in Employment Act 1992;
Health and Safety in Employment Regulations 1995;
Health and Safety in Employment (Asbestos) Regulations 1998;
Historic Places Act 1993;
Resource Management Act 1991;
Building Regulations 1992;
Health and Safety in Employment (Asbestos) Regulations 1998;
Explosives Regulations 1959;
Hazardous Substances (Fireworks, Safety Ammunition, and Other Explosives Transfer) Regulations 2003;
Hazardous Substances Regulations 2001;
Toxic Substances Regulations 1983;
New Zealand Statutes, Statutory Regulations and Local and Private Acts can be found on the Interim Website of New Zealand Legislation http://www.legislation.govt.nz
Approved Code of Practice for Demolition, 1994, Occupational Safety and Health Service of the Department of Labour;
Approved Code of Practice for the Safe Erection and Use of Scaffolding, 1995, Occupational Safety and Health Service of the Department of Labour;
Guidelines for the Management and Removal of Asbestos, 1999, Occupational Safety and Health Service of the Department of Labour;
Approved Code of Practice for the Management of Substances Hazardous to Health (MOSH) in the Place of Work, 1997, Occupational Safety and Health Service of the Department of Labour, contact information for the Occupational Safety and Health Service of the Department of Labour can be found on their web site http://www.osh.govt.nz
BS: 6187:2000 Code of practice for demolition, contact information for British Standards Institute can be found on their web site http://www.bsi.org.uk/index.xalter
AS/NZS 4576:1995 Guidelines for scaffolding;
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NZS 6803:1999: *Acoustics - Construction Noise*, contact information for Standards New Zealand can be found on their web site
http://www.standards.co.nz/index.asp
AS 2601-2001 *Demolition of Structures*, contact information for the Standards Australia and joint AS/NZ standards can be found on the web site
Contract documents.

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

Elements and Performance Criteria

element 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.
**element 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 in Employment Act 1992.

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.

**element 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, Material Safety Data Sheets (MSDS), 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.
element 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.

**Comments on this unit standard**

Please contact Infrastructure ITO askus@infratrain.co.nz if you wish to suggest changes to the content of this unit standard.

**Please Note**

Providers must be accredited by the Qualifications Authority or a delegated inter-institutional body before they can register credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.
Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for providers wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

This unit standard is covered by AMAP 0101 which can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.