

Title	Demonstrate knowledge of explosives and their properties		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to demonstrate knowledge of current legislative and licensing requirements associated with explosives and demonstrate knowledge of explosives products and related equipment.
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Classification	Extractive Industries > Extractive Industries Management
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Available grade	Achieved
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Guidance Information

- Performance of the outcomes of this unit standard must comply with the following:
Health and Safety at Work Act 2015 (HSW);
Health and Safety at Work (General Risk and Workplace Management) Regulations 2016;
Health and Safety at Work (Worker Engagement, Participation, and Representation) Regulations 2016;
Health and Safety at Work (Mining Operations and Quarrying Operations) Regulations 2016;
Health and Safety at Work (Hazardous Substances) Regulations 2017 and related Safe Work Instruments (SWIs) published by WorkSafe NZ;
approved codes of practice issued pursuant to the HSW Act;
WorkSafe New Zealand Act 2013;
Land Transport Act 1998 and associated Regulations;
Hazardous Substances and New Organisms (HSNO) Act 1996;
WorkSafe NZ's Good Practice Guidelines for the extractives industries, available from <https://worksafe.govt.nz/>;
AS 2187.1:1998 *Explosives – Storage, transport and use – Storage*;
Territorial and/or Local Authority plans and bylaws for the storing of explosives.
- The Environmental Protection Authority (EPA) is responsible for assessing and approving hazardous substances and, where appropriate, setting controls on the way the substances are used. Any questions relating to the provisions for hazardous substances should be directed to [EPA New Zealand](https://www.epa.govt.nz/).
- Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

4 Definition

Site requirements mean the documented methods for performing work activities and include health and safety, operational, environmental, and quality management requirements. They may refer to manuals, codes of practice, or policy statements.

5 This unit standard is intended for, but is not limited to, workplace assessment.

Outcomes and performance criteria**Outcome 1**

Demonstrate knowledge of current legislative and licensing requirements associated with explosives.

Performance criteria

1.1 Certification requirements for the transport of explosives are described in accordance with current legislative and licensing requirements.

Range includes – HSNO Act 1996, HSW (Hazardous Substances) Regulations 2017, Land Transport Act 1998 and associated Regulations, emergency procedures; may include – air, land, water, underground.

1.2 Certification required for the manufacture of explosives at a site is described in accordance with current legislative and licensing requirements.

Range HSNO Act 1996, HSW (Hazardous Substances) Regulations 2017, manufacture from ingredients, labelling, site requirements, industry standard tools.

1.3 The procedures for assembly and disassembly of explosive components are described in accordance with current legislative and licensing requirements.

Range HSNO Act 1996, HSW (Hazardous Substances) Regulations 2017, site requirements, dismantling primed charges, explosive components.

1.4 Certification requirements for the storage of explosives are described in accordance with current legislative and licensing requirements.

Range HSNO Act 1996, HSW (Hazardous Substances) Regulations 2017, site requirements, magazine requirements, quantities, labelling, documentation, disposal.

Outcome 2

Demonstrate knowledge of explosives products and related equipment.

Performance criteria

2.1 High and low explosives are described in terms of their differences.

Range shelf life, appropriate uses, material safety data sheets, technical data sheets.

2.2 Products are described in terms of their appropriate uses.

Range material safety data sheets (MSDS), emergency procedures, land, air, water, underground, construction.

2.3 Explosive products and initiation systems are described.

Range compatibility, burning speed, MSDS, technical data sheets.

2.4 Ancillary equipment is described in terms of its use.

Range includes but is not limited to – blasting galvanometer, exploder, tamping rods, non-ferrous tools, crimpers, cutters and some form of lowering device.

2.5 Personal protective equipment is described in terms of its purpose in relation to explosives.

Range includes but is not limited to – safety glasses, hearing protection, overalls, gloves, boots, safety helmet.

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

Process	Version	Date	Last Date for Assessment
Registration	1	25 November 2000	31 December 2012
Review	2	19 April 2002	31 December 2012
Review	3	27 January 2005	31 December 2012
Review	4	18 March 2011	31 December 2017
Review	5	22 August 2014	31 December 2027
Rollover and Revision	6	25 January 2018	31 December 2027
Review	7	25 September 2025	31 December 2027

Consent and Moderation Requirements (CMR) reference

0114

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.