

Title	Describe and operate a winding engine in an underground extractive site		
Level	4	Credits	15

Purpose	People credited with this unit standard are able to: describe the operational characteristics and performance of a winding engine; describe safe work practices and conditions for operating a winding engine; check readiness and operate a winding engine; unload and shut down a winding engine and complete documentation, in an underground mine extractive site.
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Classification	Extractive Industries > Underground Extraction
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Available grade	Achieved
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Prerequisites	Unit 7146, <i>Demonstrate basic knowledge and ability required to work in an underground operation</i> , or demonstrate equivalent knowledge and skills.
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Guidance Information

- 1 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;
 approved codes of practice issued pursuant to the HSW Act.
- 2 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.
- 3 Definitions
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.
Industry best practice refers to those practices which competent practitioners within the industry recognise as current industry best practice. These may be documented in management plans, company procedures or requirements, managers' rules,

occupational health and safety policy, industry guidelines, codes of practice, manufacturers' instructions, and safe working and/or job procedures (or equivalent).

Outcomes and performance criteria

Outcome 1

Describe the operational characteristics and performance of a winding engine in an underground extractive site.

Performance criteria

1.1 The operational characteristics and performance of a winding engine are described in terms of its operation in an underground extractive site.

Range supplies, plant and equipment, personnel, mucking out, run of mine.

Outcome 2

Describe safe work practices and conditions for operating a winding engine in an underground extractive site.

Performance criteria

2.1 Safe work practices and conditions for the winding engine operation are described in accordance with industry best practice.

Range accessibility, ventilation, roadway and/or shaft conditions, roof and sides security, compressed air, water, electrical services, hydraulics, emergency stops, communications, pre-start alarms, limit indicators, brakes.

2.2 The safe working loads of the winding engine are described in accordance with manufacturer's recommendations.

Range height and width of load, securing of loads, passenger safety, maximum load.

Outcome 3

Check readiness and operate a winding engine in an underground extractive site.

Performance criteria

3.1 Checks on a winding engine are completed in accordance with industry best practice.

Range ropes, connections, guides, rails, wheels, brakes, controls, signal arrangements, securing equipment, availability, capacity, pre-start checks, documentation.

3.2 Identified defects are reported and managed in accordance with industry best practice and/or site requirements.

3.3 Winding engine is operated in accordance with the job requirements and manufacturer's specifications.

Range operation includes but is not limited to – manual and automatic control, rope and connection care, winding speed.

Outcome 4

Unload and shut down a winding engine and complete documentation.

Performance criteria

4.1 Winding engine is unloaded in accordance with industry best practice.

4.2 Winding engine is shut down in accordance with industry best practice.

4.3 Identified defects are reported and managed in accordance with industry best practice.

4.4 Documentation is completed in accordance with industry best practice and/or site requirements.

Planned review date	31 December 2022
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	29 August 1996	31 December 2019
Revision	2	17 December 1996	31 December 2019
Revision	3	18 December 1998	31 December 2019
Review	4	25 November 2000	31 December 2019
Review	5	23 September 2005	N/A
Rollover and Revision	6	16 July 2010	N/A
Rollover and Revision	7	25 January 2018	N/A

Consent and Moderation Requirements (CMR) reference	0114
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.