

Title	Operate a load haul dump machine with attachments in an underground operation		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to: describe the operational characteristics and performance of a load haul dump (LHD) machine; describe safe work practices and conditions for operating an LHD machine; check readiness and operate an LHD machine; and unload and shut down an LHD machine, and complete documentation, in an underground operation.
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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

- 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.
- 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.
- Definitions
 - Company procedures* mean the documented methods for performing work activities and include health and safety, operational, environmental, and quality management requirements. They may refer to legislation, regulations, guidelines, standard operating procedures, manuals, codes of practice, or policy statements.
 - Industry best practice* may be documented in management plans, control plans, company procedures, managers' rules, occupational health and safety policy,

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

- 4 An *underground operation* includes extractive or tunnelling operations.

Outcomes and performance criteria

Outcome 1

Describe the operational characteristics and performance of a load haul dump (LHD) machine in an underground operation.

Performance criteria

- 1.1 An LHD machine is described in terms of its operational characteristics and performance.

Range safety features, instruments, controls, operating procedures, attachments, powered attachments.

Outcome 2

Describe safe work practices and conditions for operating an LHD machine in an underground operation.

Performance criteria

- 2.1 The safe work practices and conditions for the LHD machine operation are described in accordance with industry best practice and company procedures.

Range gradient, speed, lighting, accessibility, ventilation, roadway conditions, roof and rib security, compressed air, water and electrical services.

Outcome 3

Check readiness and operate an LHD machine in an underground operation.

Performance criteria

- 3.1 Checks on machine are completed in accordance with industry best practice and company procedures.

Range availability, capacity, walk-around checks, pre-start checks, post-start checks, documentation.

- 3.2 Identified defects are reported and managed in accordance with industry best practice and company procedures.

- 3.3 Machine is operated in accordance with the job and machine specifications, industry best practice and company procedures.

Range operation includes but is not limited to – manoeuvring, load, lift, carry, dump, grade surface, position objects, attachments, powered attachments.

Outcome 4

Unload and shut down an LHD machine, and complete documentation.

Performance criteria

- 4.1 Machine is unloaded in accordance with industry best practice and company procedures.
- 4.2 Machine is shut down and parked in accordance with industry best practice and company procedures.
- 4.3 Identified defects are reported and managed in accordance with industry best practice and company procedures.
- 4.4 Documentation is completed in accordance with industry best practice and company procedures.

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 2017
Revision	2	17 December 1996	31 December 2017
Revision	3	18 December 1998	31 December 2017
Review	4	25 November 2000	31 December 2017
Review	5	24 November 2005	31 December 2017
Rollover and Revision	6	16 July 2010	31 December 2017
Review	7	18 June 2015	N/A
Rollover and Revision	8	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.