

Title	Install tracks and ballast for rope and locomotive haulage systems in an underground extractive site		
Level	4	Credits	10

Purpose	People credited with this unit standard are able to: prepare foundations and carry out plan of work; install sleepers and rails; and lay ballast, in an underground 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, safe working and/or job procedures (or equivalent).

Outcomes and performance criteria

Outcome 1

Prepare foundations and carry out plan of work in an underground extractive site.

Performance criteria

1.1 Foundations are prepared in accordance with plan of work.

Range roadway conditions, ground stability, gradient, levelling, cambers, ballast, drainage, alignment, clearance.

Outcome 2

Install sleepers and rails in an underground extractive site.

Performance criteria

2.1 Specialist tools are selected to meet the requirements of the task.

Range includes but is not limited to – dogging hammer, jim crow and bar, jacks.

2.2 Sleepers and rails are installed in accordance with the plan of work, site requirements, and industry best practice.

Range position, firm base, uniform gauge, joints, radii on bends, anchoring, clearances, junctions, shunts, attachments, fish plates and bolts, plates and flatsheets, points and crossings, dogs.

Outcome 3

Lay ballast in an underground extractive site.

Performance criteria

3.1 Ballast is laid in accordance with the plan of work, site requirements, and industry best practice.

Range material, quantity, density, stability, compaction, levelling, camber, alignment, clearance.

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

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.