

Title	Describe and operate a belt wagon at an extraction site		
Level	4	Credits	12

Purpose	People credited with this unit standard are able to: operate and describe the operational characteristics and performance of belt wagons; describe and demonstrate the safety systems, adjustments, and checks required for belt wagons; describe the mining plan and production requirements for the shift operation; and carry out shift-end, shut-down procedures and complete documentation for the belt wagon.
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Classification	Extractive Industries > Extractive Industries Management
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Available grade	Achieved
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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**
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 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, managers' rules, occupational health and safety policy, industry guidelines, codes of practice, manufacturers' instructions, and safe working and/or job procedures (or equivalent).
- 4 This unit standard is intended for, but is not limited to, workplace assessment.

Outcomes and performance criteria

Outcome 1

Operate and describe the operational characteristics and performance of belt wagons.

Performance criteria

- 1.1 The type of raw material and geological conditions are described in terms of their suitability for effective belt wagon operation.
- 1.2 The operational characteristics and performance of belt wagons are described in terms of the machine's use in extractive operations.
- Range raw material, machine types, power source and supply, materials transport systems, controls and systems, operating procedures, start-up.
- 1.3 The type of material handling is described in terms of its use with the belt wagon.
- Range conveyors, transfer points, hoisting and lowering of booms.
- 1.4 Belt wagon is operated in accordance with manufacturer's instructions.

Outcome 2

Describe and demonstrate the safety systems, adjustments, and checks required for belt wagons.

Performance criteria

- 2.1 The adjustments and checks to be carried out by the operator are described in accordance with industry best practice.
- Range crawler track tensioning, belt tracking, belt tensioning, adjusting skirts at transfer points, hydraulic checks, pre-start checks.
- 2.2 The safety systems for the belt wagon operation are described and demonstrated.
- Range fire fighting, alarms, communications, emergency stops, trip-out re-set, safety features, approach and dismounting machine, isolation procedures.

Outcome 3

Describe the mining plan and production requirements for the shift operation.

Performance criteria

- 3.1 The mining plan is described in terms of the mine objectives.

3.2 The shift plan and requirements are described in terms of the mining plan.

Range production, product quality, housekeeping.

Outcome 4

Carry out shift-end, shut-down procedures and complete documentation for the belt wagon.

Performance criteria

4.1 Machine is shut down and parked in accordance with the manufacturer's recommendations, mine plan, and industry best practice.

Range going off-feed, shut-down procedures, park-up.

4.2 Defects are listed in accordance with industry best practice.

Range machine and associated equipment inspections, face and bench condition.

4.3 Documentation is completed in accordance with company procedures.

Range operator log sheets, hazard reports, defect reports.

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	31 July 2001	31 December 2019
Review	2	24 November 2005	N/A
Rollover and Revision	3	16 July 2010	N/A
Rollover and Revision	4	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.