

Title	Develop, implement, and review maintenance plans for an extractive site		
Level	6	Credits	20

Purpose	People credited with this unit standard are able to: identify and quantify maintenance requirements; develop a maintenance plan; implement a maintenance plan; and review a maintenance plan, for an extractive site.
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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:
 Building Act 2004;
 Hazardous Substances and New Organisms Act 1996 (HSNO);
 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 (Mining Operations and Quarrying Operations) Regulations 2016;
 Health and Safety at Work (Worker Engagement, Participation, and Representation) Regulations 2016;
 approved codes of practice issued pursuant to the HSW Act;
 Mines Rescue Act 2013;
 Resource Management Act 1991.
- 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 legislation, regulations, guidelines, standard operating procedures, manuals, codes of practice, or policy statements.
Maintenance activities refer to regular servicing periods and scheduled maintenance.

Outcomes and performance criteria

Outcome 1

Identify and quantify maintenance requirements for an extractive site.

Performance criteria

- 1.1 Specified maintenance activities are identified in accordance with manufacturer's specifications and company procedures.
- Range plant, vehicles, equipment.
- 1.2 Maintenance requirements are quantified in accordance with manufacturer's specifications and company procedures.
- Range parts replacement, types of lubricants, component tolerances.
- 1.3 Resource constraints are identified in terms of quantity and availability.
- Range may include but is not limited to – trained personnel, budget, equipment, plant, time, materials.

Outcome 2

Develop a maintenance plan for an extractive site.

Performance criteria

- 2.1 The maintenance plan includes the maintenance requirements for all plant, vehicles, and equipment for the extractive site.
- Range materials, required sources of supply, time-frames for availability, regulatory requirements for safety, technical integrity.
- 2.2 The maintenance plan identifies the persons or organisations responsible for maintenance activities for plant, vehicles, and equipment.
- 2.3 The maintenance plan includes a schedule of maintenance activities for plant; vehicles; equipment; recording, and reporting requirements; contingency actions; and review requirements.
- 2.4 The maintenance plan meets the company policy for cost-effectiveness and productivity.
- Range may include but is not limited to – scheduling, spare parts requirements, repair provision.
- 2.5 The maintenance plan is checked to ensure that it meets company, safety, and regulatory requirements.

Outcome 3

Implement a maintenance plan at an extractive site.

Performance criteria

- 3.1 Resources required to implement the maintenance plan are available in accordance with plan requirements.
- Range resources may include but are not limited to – materials, spare parts, and trained personnel.
- 3.2 Maintenance activities are monitored for compliance with the maintenance plan.
- 3.3 Contingency actions are implemented where required and maintenance activities are re-aligned with the plan.
- Range may include but is not limited to – use of alternative equipment, use of sub-contractors, servicing of equipment.
- 3.4 Recording and reporting requirements are carried out in accordance with plan requirements and company procedures.

Outcome 4

Review a maintenance plan for an extractive site.

Performance criteria

- 4.1 The plan is evaluated in relation to the maintenance requirements, maintenance cycle, and effectiveness of implementation of the plan.
- 4.2 Recommendations made as a result of the review of the plan provide solutions to improve maintenance programme for the extractive site.

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	23 April 2007	31 December 2019
Review	2		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.