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| Title | Survey and produce statutory mine plans | | |
| Level | 6 | Credits | 20 |

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| Purpose | People credited with this unit standard are able to: explain and validate methods for establishing and maintaining survey control for a mine; survey and produce mine data; and produce statutory mine plans. |
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| Classification | Extractive Industries > Extractive Industries Management |
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| Available grade | Achieved |
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Guidance Information

- 1 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to:
 - 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 2022;
 - Health and Safety at Work (Hazardous Substances) Regulations 2017 and related Safe Work Instruments (SWIs) published by WorkSafe NZ; approved codes of practice issued pursuant to the HSW Act available at <http://www.worksafe.govt.nz/worksafe/information-guidance/approved-codes-of-practice-acops/>.

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.

- 2 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 good practices are approved codes of practice and standardised procedures accepted by the wider mining industry as examples of good practice. They 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).

Mine refers to all types of mines and tunnels.

Statutory mine plans are those plans required under sections 213 to 219 of the Health and Safety at Work (Mining Operations and Quarrying Operations) Regulations 2022.

3 Range

For the purposes of assessment against this unit standard, sufficient mine plans must be produced to demonstrate that the candidate has competence to produce all types of statutory mine plans (including reviews and updates) as required by the Health and Safety at Work (Mining Operations and Quarrying Operations) Regulations 2022. Candidates may not have the opportunity to produce all types of statutory mine plans within their particular work setting. In this case simulated activities may be used to provide evidence of competence.

4 Assessment information

Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable industry good practices, worksite documentation and legislative requirements. This includes the knowledge and use of suitable tools and equipment.

Outcomes and performance criteria

Outcome 1

Explain and validate methods for establishing and maintaining survey control for a mine.

Performance criteria

- 1.1 The methods for establishing and maintaining survey control for new mining operations using recognised survey methodologies are explained in accordance with company procedures and industry good practice.
- 1.2 Control for mine surveys for existing operations are validated and maintained using recognised survey methodologies in accordance with company procedures and industry good practices.

Outcome 2

Survey and produce mine data.

Performance criteria

- 2.1 Established survey control is used to capture as-built data in accordance with company procedures and industry good practices.
- 2.2 Established survey control is used to collect production and development data and provide mine operators with updated information on the mine compared to the design in accordance with company procedures and industry good practices.

Outcome 3

Produce statutory mine plans.

Performance criteria

- 3.1 Survey data is used to produce statutory mine plans in accordance with company procedures and legislative requirements.
- 3.2 Statutory mine plans are submitted to company personnel and government departments in accordance with company procedures and legislative requirements.

Range government departments include but are not limited to – WorkSafe NZ and NZ Petroleum and Minerals.

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| Replacement information | This unit standard replaced unit standard 17742 and unit standard 17745. |
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| Planned review date | 31 December 2029 |
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Status information and last date for assessment for superseded versions

| Process | Version | Date | Last Date for Assessment |
|-----------------------|---------|-----------------|--------------------------|
| Registration | 1 | 20 August 2015 | 31 December 2026 |
| Rollover and Revision | 2 | 25 January 2018 | 31 December 2026 |
| Review | 3 | 30 January 2025 | N/A |

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| 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 Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council qualifications@hangaarorau.nz if you wish to suggest changes to the content of this unit standard.