

Title	Demonstrate knowledge of health and safety for a bitumen or asphalt product manufacturing plant		
Level	4	Credits	15

Purpose	People credited with this unit standard are able to demonstrate knowledge of health and safety for a bitumen or asphalt product manufacturing plant.
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Classification	Infrastructure Works > Bituminous Product Manufacturing
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Available grade	Achieved
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Guidance Information

- 1 Learning and assessment for this unit standard must be in accordance with the following:
 - Health and Safety at Work Act 2015;
 - Health and Safety at Work (Hazardous Substances) Regulations 2017;
 - Notices for hazardous substances 2017 – Environmental Protection Authority (EPA);
 - Resource Management Act 1991;
 - Best Practice Guideline: Safe Handling of Bituminous Materials Used for Roothing (BPG01);
 - The Bitumen Safety Handbook; Civil Contractors New Zealand (CCNZ);
 - Workplace Traffic Management fact sheet (Worksafe);
 - Specification for Performance-Graded Asphalt Binder, NZTA MO1-A:2019;
 - and all subsequent amendments and replacements.

- 2 Definition

Company requirements include the policy, procedures, and methodologies of the company. They include legislative and regulatory requirements applicable to the company or to a specific site. Requirements are documented in the company's health and safety plans, environmental plans, traffic management plans, contract work programmes, quality assurance programmes, policies, and procedural documents.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of health and safety for a bitumen or asphalt product manufacturing plant.

Performance criteria

- 1.1 Health and safety hazard control measures and the procedures to monitor them are explained in accordance with company requirements and legislation.

Range health hazard control measures – plant health and safety management plan;
safety hazard control measures – plant health and safety management plan, hazard management plan, emergency response plan.
- 1.2 Register of hazardous substances is explained in terms of the procedures and practices to meet the requirements of the risk assessment plan and safety data sheets.
- 1.3 Spill containment procedures are explained in accordance with company requirements.
- 1.4 Risk control measures are explained in terms of reducing the risk of fire, explosion and hot work on heated storage tanks in accordance with company requirements.
- 1.5 Procedures to reduce product contamination including solvent flushing and cleaning are explained in accordance with company requirements.
- 1.6 First aid and fire-fighting equipment and provisions are explained in terms of suitability for types of incidents that occur in the production plant.
- 1.7 Procedures for identifying critical risk activities are explained in accordance with company requirements, BPG01 and legislation.
- 1.8 Accident and incident recording measures are explained in accordance with company requirements.
- 1.9 Procedures for ensuring the health and wellbeing of plant operators and site safety are explained in accordance with company requirements.
- 1.10 The layout and traffic flow of the manufacturing site is explained in accordance with the requirements of the Workplace Traffic Management fact sheet
- 1.11 Procedures for load out safety and the safety of truck drivers are explained in accordance with company requirements.
- 1.12 Internal site inspections and feedback are used to determine risk and recommend improvements to policy and procedures in accordance with company requirements.

Planned review date	31 December 2025
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 November 2020	N/A

Consent and Moderation Requirements (CMR) reference	0101
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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 Connexis - Infrastructure Industry Training Organisation
qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.