

Title	Optimise the performance of a bitumen or asphalt product manufacturing plant		
Level	4	Credits	20

Purpose	People credited with this unit standard are able to optimise the performance of 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);
 - Managing Worksite Traffic 2021 (Worksafe);
 - Specification for Performance-Graded Asphalt Binder, NZTA MO1-A:2022; and all subsequent amendments and replacements.
- 2 Definitions

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.

Quality plan refers to any contract specific policy, processes, procedures, testing or certification requirements for site works.

Outcomes and performance criteria

Outcome 1

Optimise the performance of a bitumen or asphalt product manufacturing plant.

Performance criteria

- 1.1 Product manufacturing process is monitored within defined parameters and in accordance with product specifications, company and operator role requirements.
- 1.2 Product manufacturing process is carried out in accordance with operator role requirements, site safety plan and company requirements.
- 1.3 Quality control testing and quality standards are actioned in accordance with operator role requirements, quality plan and company requirements.
- 1.4 Communications with customers in terms of optimising plant performance are undertaken including variations from rescheduling, plant breakdown, or product failure in accordance with company requirements.
- 1.5 Contributions to plant performance reports are actioned in accordance with operator role requirements and company requirements.
- 1.6 Consumption of resources is kept to a minimum and any sustainability requirements are completed in accordance with company requirements.
- 1.7 Ongoing training or professional development is completed to inform improvements to work practices in accordance with company requirements.
- 1.8 Recommendations to improve plant performance are discussed with the supervisor, recorded, and reported in accordance with operator role and company requirements.

Planned review date	31 December 2027
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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
Rollover and Revision	2	30 October 2025	N/A

Consent and Moderation Requirements (CMR) reference	0120
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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 Waihangara Ara Rau Construction and Infrastructure Workforce Development Council qualifications@waihangaraarau.nz if you wish to suggest changes to the content of this unit standard.