

Title	Demonstrate knowledge of and carry out bitumen surface construction site operations		
Level	3	Credits	10

Purpose	People credited with this unit standard are able to demonstrate knowledge of and carry out bitumen surface construction site operations.
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Classification	Infrastructure Works > Bitumen Surfacing Construction
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Available grade	Achieved
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Guidance Information

- Learning and assessment within this unit standard must be carried out in an infrastructure works environment; in accordance with industry requirements, the following legislation, guidelines, as relevant to their role, and any subsequent amendments or replacements:
 - Health and Safety at Work Act 2015;
 - Resource Management Act 1991, available from www.legislation.govt.nz;
 - Best Practice Guideline: Safe Handling of Bituminous Materials Used for Roading (BPG01), available from BPG01 | Civil Contractors NZ;
 - The Bitumen Safety Handbook, available from <https://civilcontractors.co.nz/>.

2 Definitions

Industry requirements include the policy, procedures, and methodologies of the company. They include legislative and regulatory requirements that may apply across the company or to a specific site. Requirements are documented in the company health and safety plans, traffic management plans, contract work programmes, quality plans, policies, and procedural documents.

Job instructions are instructions given to the operator prior to undertaking a job. They may include site safety instructions, contract drawings, and written memos. *Quality plan* refers to any contract specific policy, processes, procedures, testing or certification requirements.

Site safety plan means the comprehensive plan dealing with issues relating to health, safety, and the environment. This plan may be generic or site specific and will include and emergency plan. It may include a hazard register.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of bitumen surface construction site operations.

Performance criteria

- 1.1 The process for bitumen surface construction is explained in terms of the sequence and job specification requirements for the site.
- 1.2 Tasks for site operations are explained in terms of own role and job specification requirements.
- 1.3 The importance of the quality plan and site safety plan are explained in terms of own role and site operations.
- 1.4 Site-specific conditions are explained in terms of type of soil, terrain, and/or environmental considerations.
- 1.5 The value of crew members to the business is explained in terms of company expectations for down time, reducing variations and meeting deadlines.

Outcome 2

Carry out bitumen surface construction site operations.

Performance criteria

- 2.1 Safety procedures and checks are followed in terms of the requirements of the site safety plan.
- Range personal protective equipment, daily tasks, plant, and equipment.
- 2.2 Tasks are completed and meet the requirements of the role and job instructions.
- 2.3 Equipment is operated in accordance with any equipment specifications.
- 2.4 Plant is operated in accordance with the operator manual requirements.
- 2.5 Any issues and recommendations for improvements to site operations are discussed with a leading hand or supervisor.
- 2.6 Timelines and documentation requirements are met.

Planned review date	31 December 2028
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 September 2018	31 December 2026
Review	2	29 June 2023	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 Waihanga Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@WaihangaAraRau.nz if you wish to suggest changes to the content of this unit standard.