

Title	Assess and prepare the site for bitumen surfacing construction		
Level	4	Credits	25

Purpose	People credited with this unit standard are able to assess and prepare the site for bitumen surfacing construction.
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Classification	Infrastructure Works > Bitumen Surfacing Construction
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Available grade	Achieved
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Guidance Information

- 1 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 Roothing (BPG01), available from BPG01 | Civil Contractors NZ;
 - The Bitumen Safety Handbook, available from <https://civilcontractors.co.nz/>.
- 2 Evidence from three different work sites is required to achieve this unit standard.
- 3 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 specifications are instructions given to the operator prior to undertaking a job. They may include site safety instructions, contract drawings, and written memos.

Safety hazards may refer to practices such as standing on the platform at the rear of the truck, or hazards relating to spraybar or transfer hose blockages, changing onsite conditions, hazardous temperatures, inadequate start up and shut down procedures, pre-heating the spraybar, strainer blockages or wear and tear, spillage, traffic, narrow shoulders, banks, limited passing, fire, and noise.

Outcomes and performance criteria

Outcome 1

Assess the site for bitumen surfacing construction.

Performance criteria

- 1.1 Site assessment is completed, safety hazards are identified, and any changes in site conditions are communicated in accordance with the site safety plan.
- 1.2 Weather forecasting and checking changing weather conditions prior to and during the work activities are completed and relevant stakeholders and supervisors are informed.
- 1.3 Site suitability for access and truck movements is confirmed in terms of public safety.
- Range chipseal or asphalt transfer, loading and unloading plant, disposal of waste materials.
- 1.4 Site is inspected for issues and compliance requirements that may impact on the use of equipment and the construction process.
- 1.5 Pre-acceptance of site and site preparation requirements, before laying chipseal or asphalt, are explained in terms of meeting job specifications.
- 1.6 Site for heating, storing, and transferring of chipseal or asphalt components is selected with consideration for workers, public, and environmental safety.
- 1.7 Acceptance of the site for spraying and paving is confirmed, and a temporary traffic management plan is in place, in accordance with job specifications.

Outcome 2

Prepare the site for bitumen surfacing construction.

Performance criteria

- 2.1 Areas where surfacing construction, existing base course, underground or site conditions could impact on quality outcomes, are marked, and communicated to the site supervisor.
- 2.2 External affected parties are notified.
- 2.3 Road services are identified, marked, and reinstated at the end of the day.
- 2.4 Optimal construction techniques are confirmed with the team onsite prior to job commencement in terms of meeting the outcomes of the quality plan.
- 2.5 Materials and plant for surfacing construction are checked as available on site when required.
- 2.6 Quantity and type of chipseal or asphalt delivered on site is checked to match job specifications.

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	14 December 2017	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 Waihangā Ara Rau Construction and Infrastructure Workforce Development Council at qualifications@WaihangāAraRau.nz if you wish to suggest changes to the content of this unit standard.