

Field Engineering and Technology

Review of *Bitumen Surfacing Construction* unit standards

Subfield	Domain	ID
Infrastructure Works	Bitumen Surfacing Construction	13519, 20449, 20455, 20456, 30805, 30806, 30807, 31453.

Waihanga Ara Rau Construction and Infrastructure Workforce Development Council has completed the review of the unit standards listed above.

Date new versions published

June 2023

Planned review date

December 2028

Summary

Waihanga Ara Rau WDC, Civil Contractors New Zealand (CCNZ), and technical experts from the bitumen surfacing construction industry have reviewed the unit standards listed above. Unit standards were updated in line with current industry practice.

Consultation meetings with industry representatives and providers were held from November 2022 to March 2023. Emails were sent to organisations with consent to assess to advise them of the review. Feedback was received and decisions were made in consultation with CCNZ, providers, and the industry technical advisory group resulting in the changes below.

Main changes

- Guidance information was amended in line with current bitumen surfacing industry practice.
- Performance criteria and range statements were edited for clarity as well as amended in line with current unit standard template requirements.
- Standard setting details were updated to reflect the change of standard setting body from Connexis Infrastructure Industry Training Organisation to Waihanga Ara Rau Construction and Infrastructure Workforce Development Council.
- Unit standard 13519 was amended to clarify the skills and knowledge of the asphalt paving machine operator and those required to set up the asphalt paving machine screed.
- Unit standard 30805 was amended to include a new performance criterion 1.2 covering the assessment of weather conditions on site.
- Unit standard 30806 was amended to include two new performance criteria 2.2 and 2.3 covering spill prevention and environmental non-compliance, and the credits were raised to reflect the change.

The last date for assessment of superseded versions of Category B unit standards is December 2026.

Detailed list of unit standards – classification, title, level, and credits

All changes are in **bold**.

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new ID
D	Standard will expire and not be replaced

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ID	Title	Level	Credit	Review Category
13519	Operate an asphalt paving machine	4	20	B
20449	Demonstrate knowledge of the dangers of handling bituminous materials and the need for safety	3	10	B
20455	Demonstrate basic knowledge of safety relating to bituminous materials and associated products	2	5	B
20456	Demonstrate first aid relating to bituminous materials and associated products	2	1	B
30805	Assess and prepare the site for bitumen surfacing construction	4	25	B
30806	Implement, monitor, and complete the work plan for the bitumen surfacing construction site	4	28 30	B
30807	Implement quality processes on the bitumen surfacing construction site	4	25	B
31453	Demonstrate knowledge of and carry out bitumen surface construction site operations	3	10	B