

Field Engineering and Technology

Review and expiry of *Pavement Surfacing* unit standards

Subfield	Domain	ID
Pavement Surfacing	Asphalt Surfacing	1508-1510, 1512, 13514, 13515, 13518, 13521, 17672, 20443-20446, 20448, 21665, 21666, 23611, 23612
	Bitumen Surfacing	20450, 20458-20460, 20463
	Chipseal Surfacing	1505, 1507, 8021, 13517, 17670, 17671, 20451-20454, 20461, 20462, 21664, 23613-23616

Connexis Infrastructure ITO has completed the review of the unit standards listed above.

Date new versions published

January 2019

Summary

The unit standards were identified as overdue for review. Usage checks showed that the standards had received little or no use in the last 3 years and are not included in any current Connexis programmes. A list of standards was circulated among relevant industry stakeholders in October 2018, and any standards identified as no longer needed were reviewed with the intention to expire them from the Directory of Assessment Standards.

Main changes

- All standards were designated expiring and reissued as new versions with an expiry date included.
- References in guidance information and within individual standards were updated.
- Standard setting body information and contact details were updated.

Category D unit standards will expire at the end of December 2020

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

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

Engineering and Technology > Pavement Surfacing > Asphalt Surfacing

ID	Title	Level	Credit	Review Category
1508	Plan and organise construction activities as an asphalt paving supervisor	4	15	D
1509	Demonstrate knowledge of materials used in asphalt paving production and construction	4	10	D
1510	Demonstrate knowledge of asphalt mix options, pavement pretreatments, and asphalt paving operations requirements	4	12	D
1512	Supervise asphalt paving construction activities	4	18	D

ID	Title	Level	Credit	Review Category
13514	Design hot mix asphalt	5	25	D
13515	Carry out acceptance testing for asphalt paving	4	10	D
13518	Demonstrate sweeping, placing, compacting, and associated handwork skills for asphalt surfacing	2	15	D
13521	Demonstrate knowledge of the compaction of hot mix asphalt	3	5	D
17672	Demonstrate knowledge of the use of polymer modifiers in hot mix asphalt production and construction	4	5	D
20443	Operate bitumen storage and heating equipment at an asphalt plant	4	10	D
20444	Operate an asphalt production plant	4	20	D
20445	Demonstrate knowledge of asphalt production plants	4	10	D
20446	Demonstrate knowledge of asphalt mix design methods and specifications	5	15	D
20448	Operate a self-propelled roller for asphalt surfacing	3	10	D
21665	Demonstrate knowledge of materials and mixes for hot mix asphalt designs	5	10	D
21666	Explain the properties, selection, and effects of polymer-modified binders in hot mix asphalt	5	8	D
23611	Demonstrate knowledge of, and plan work for, asphalt paving construction as a foreperson	4	12	D
23612	Undertake foreperson duties on asphalt paving construction sites	4	10	D

Engineering and Technology > Pavement Surfacing > Bitumen Surfacing

ID	Title	Level	Credit	Review Category
20450	Describe safe heating, blending, modification, and transfer of bulk bituminous liquids	4	15	D
20458	Describe placarding requirements and produce documentation for transporting bituminous liquids	2	3	D
20459	Transport bulk bituminous liquids by road and assist with loading and unloading	3	8	D
20460	Operate a bitumen tank wagon	4	10	D
20463	Determine and document bitumen blends	3	5	D

Engineering and Technology > Pavement Surfacing > Chipseal Surfacing

ID	Title	Level	Credit	Review Category
1505	Demonstrate knowledge of chipseal design surfacing requirements	4	15	D
1507	Demonstrate knowledge of, and supervise, construction activities as a chipseal surfacing supervisor	5	15	D
8021	Demonstrate knowledge of chipseal construction plant	3	5	D
13517	Demonstrate sweeping, chip-spreading, and associated handwork skills for chipseal surfacing	2	15	
17670	Demonstrate knowledge of hot polymer-modified binders and their use in chipseal construction	4	5	D
17671	Design chipseal surfacings using polymer-modified binders	5	5	D
20451	Operate bitumen gangbar sprayer transfer, heating, and blending equipment	4	15	D
20452	Spray bitumen for chipseal surfacing using a gangbar sprayer	4	15	D

ID	Title	Level	Credit	Review Category
20453	Plan and organise construction activities as a chipseal surfacing supervisor	5	15	D
20454	Demonstrate knowledge of materials used in chipseal surfacing	4	6	D
20461	Demonstrate knowledge of bitumen gangbar sprayers and operations	4	10	D
20462	Operate a self-propelled roller for chipseal surfacing	3	8	D
21664	Design chipseal surfacings and pretreatments	5	25	D
23613	Demonstrate knowledge of, and plan work for, chipseal surfacing construction as a foreperson	4	15	D
23614	Undertake foreperson duties on chipseal surfacing construction sites	4	15	D
23615	Demonstrate knowledge of bitumen handbar sprayers and operations	3	5	D
23616	Operate bitumen handbar sprayer equipment, and handspray bitumen for chipseal surfacing	3	10	D