

FIELD ENGINEERING AND TECHNOLOGY**Review of *Pavement Surfacing* qualifications**

National Certificate in Pavement Surfacing (Asphalt Paving Supervision) with optional strands in High Capacity Roads, and Polymers [Ref: 0193]

National Certificate in Pavement Surfacing (Bitumen Sprayer Operation) with an optional strand in High Capacity Roads [Ref: 0195]

National Certificate in Pavement Surfacing (Chipseal Design) with optional strands in Emulsions, and Polymers [Ref: 0196]

National Certificate in Pavement Surfacing (Chipseal Supervision) with optional strands in High Capacity Roads, Emulsions, and Polymers [Ref: 0197]

National Certificate in Pavement Surfacing (Application) with strands in Asphalt, and Chipseal [Ref: 0465]

National Certificate in Pavement Surfacing (Asphalt Production Plant Operation) with an optional strand in Polymers [Ref: 0466]

National Certificate in Pavement Surfacing (Hot-Mix Asphalt Design) with an optional strand in Polymers [Ref: 0467]

National Certificate in Pavement Surfacing (Plant Operation) with strands in Asphalt Paving, and Chipseal [Ref: 0468]

InfraTrain New Zealand has completed the planned review of the qualifications listed above. Some of the above qualifications have new titles, some have been replaced, and one new qualification has been developed.

Replacement qualifications

- National Certificate in Pavement Surfacing (Multiple Sites Supervision) (Level 5) with strands in Asphalt, and Chipseal, and with an optional strand in STMS Level 2 and 3 Roads [Ref: 1426]
- National Certificate in Pavement Surfacing (Bulk Bitumen Equipment) with strands in Gangbar Sprayer, Handbar Sprayer, and Tank Wagon [Ref: 1427]
- National Certificate in Pavement Surfacing (Plant Operation) (Level 3) [Ref: 1428]
- National Certificate in Pavement Surfacing (Asphalt Paving Machine Operation) (Level 3) [Ref: 1429]

New qualification

- National Certificate in Pavement Surfacing (Single Site Supervision) (Level 4) with strands in Asphalt and Chipseal [Ref: 1430]

Date new versions published

September 2008

The next qualification review is planned to take place during 2013.

Summary of review and consultation process

This review was prompted by a reclassification and review of Pavement Surfacing standards, and by the registration of Civil Infrastructure Health, Safety, and Environment standards that assess underpinning knowledge and skills for this industry. The review took account of the requirements for Operate Safe, the approved accreditation system for managing health and safety in the civil construction industry, and supplementary qualifications in civil infrastructure health, safety, and environment. The review also developed a new certificate for forepersons on bitumen surfacing sites, to fill gaps noted by industry.

From August 2002 to May 2003, meetings were held with companies, providers, assessors, and moderators to outline the changes required to existing standards and qualifications, and to ascertain the gaps in coverage of industry skills that were to be filled by new qualifications. Feedback from users informed these meetings. Concurrently with the standard review and with the assistance of specialist technical advisors and industry representatives, replacement and new qualifications were drafted and further comment was then invited from providers and industry. Pending the registration of the reviewed Pavement Surfacing standards, these qualifications were refined to meet the needs of the various groups including new apprentices and Roving New Zealand. To maintain currency with industry practice and technology some further standards were developed. These and the qualifications were approved by the Pavement and Bitumen Training Advisory Group in September 2005.

The registration of the qualifications was deferred when continuing feedback from industry regarding health and safety requirements necessitated a major change to the structure of the qualifications. Six new standards were developed to fill gaps, and seven standards consequently revised to avoid overlap (1507, 1508, 1512, 20451, 20452, 20453 and 20461).

The qualifications were resubmitted for industry approval in May 2007 and, at a meeting of industry advisors and Roving New Zealand representatives in August 2007, further amendments were made to the content and structure of the supervision and construction plant qualifications to better reflect current industry practice.

Standards 1505, 1512, 13519, and 20447 were revised to amend prerequisites and levels, and registered in January 2008. The impacts of this revision were incorporated into the review of these qualifications.

Main changes resulting from the review

- Changes to titles
- Changes in structure
- Changes in credit totals
- Addition and deletion of standards within the qualifications
- Changes in purpose statements to provide more information
- Replacement of two qualifications Refs: 0193 and 0197 with one Ref: 1426
- Replacement of one qualification Ref: 0195 with one Ref: 1427
- Replacement of one qualification Ref: 0468 with two Refs: 1428 and 1429
- Development of one new qualification Ref: 1430

National Certificate in Pavement Surfacing (Asphalt Paving Supervision) with optional strands in High Capacity Roads, and Polymers [Ref: 0193], and National Certificate in Pavement Surfacing (Chipseal Supervision) with optional strands in High Capacity Roads, Emulsions, and Polymers [Ref: 0197] replaced by

National Certificate in Pavement Surfacing (Multiple Sites Supervision) (Level 5) with strands in Asphalt, and Chipseal, and with an optional strand in STMS Level 2 and 3 Roads [Ref: 1426]

Review category	C	See Key to Qualification Review Categories at the end of report
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There are substantial differences between the new and the two replaced qualifications. Changes include

- special note included referring to a complementary business qualification
- classifications, titles, levels, and credits of reviewed standards updated
- standards 1508-1510, 1512, 13521 (from compulsory section in Ref: 0193); 17672 (from optional Polymers strand in Ref: 0193); and standards 20447 and 20455 included in new Asphalt strand
- standards 1505, 1507, and 8021 (from compulsory section in Ref: 0197); 17670 (from optional Polymers strand in Ref: 0197); and standards 20449, 20450, 20453, 20454, 20458, 20461 and 20463 included in new Chipseal strand
- optional Polymers and Emulsions strands not included, and optional High Capacity Roads strand renamed STMS Level 2 and 3 Roads optional strand
- standards 6434, 6443, 6455, 17602, 20868, 20872 and 20876 included in compulsory section
- expiring standards 1495, 1496, 1503, 1506, 1511, 5630, 13516, 14664 and 17674, and standards 5629 and 13515, not included in the qualification – see exemptions below (where applicable)
- level changed from 4 or 5 depending on strand, to 5
- credit total changed from 140 Ref: 0193 or 156 Ref: 0197, to 163 or 202.

Transition

People currently working towards version 4 of the National Certificate Pavement Surfacing (Asphalt Paving Supervision) with optional strands in High Capacity Roads, and Polymers Ref: 0193 or version 3 of the National Certificate in Pavement Surfacing (Chipseal Supervision) with optional strands in High Capacity Roads, Emulsions, and Polymers Ref: 0197 may either complete the requirements for that qualification or transfer their existing credits to this qualification.

The last date for people to complete the replaced qualification is 31 December 2012.

New trainees will be enrolled in programmes leading to the replacement qualification.

This qualification contains standards that replace or are used as substitutes for earlier standards. For the purposes of this qualification people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement or substitute standards – see table below.

Credit for	Exempt from
1495	20455, 20456
1497	20461
1503	20453
17674	20454

Please note in addition to the above exemption for standard 1495, people transferring from the replaced qualifications will be required to gain credit for standard 20449, and those holding credit for standards 1496 and 14664 will be required to gain credit for standards 20450 and 20454 respectively. People holding credit for standard 5630 will be required to update to either standard 20879 or 20880.

National Certificate in Pavement Surfacing (Bitumen Sprayer Operation) with an optional strand in High Capacity Roads [Ref: 0195]
replaced by

National Certificate in Pavement Surfacing (Bulk Bitumen Equipment) with strands in Gangbar Sprayer, Handbar Sprayer, and Tank Wagon [Ref: 1427]

Review category	C	See Key to Qualification Review Categories at the end of report
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Summary of differences between the qualifications

- special note included regarding basic safety requirements
- an elective section, and new strands in Gangbar Sprayer, Handbar Sprayer, and Tank Wagon included
- standards 1734, 16718, 20449, 20450, 20458, 20867, 20868, 20870, and 20873 included in compulsory section
- standards 17972 and 18079 included in the elective section
- standards 17670 and 20463 included in the new Gangbar Sprayer strand, standards 20463, 23615 and 23616 included in the new Handbar Sprayer strand, and standards 3466 and 20460 included in the new Tank Wagon strand
- optional High Capacity Roads strand from the replaced qualification not included
- expiring standards 1495, 1496, 1497, 1498, and standards 5627 and 5629, not included in the qualification – see exemptions below (where applicable)
- level changed from 4, to 3 or 4
- credit total changed from 107 to 107-158.

Transition

People currently working towards version 3 of the National Certificate in Pavement Surfacing (Bitumen Sprayer Operation) with an optional strand in High Capacity Roads [Ref: 0195] may either complete the requirements for that version or transfer existing credits to this qualification.

The last date for people to complete the replaced qualification is 31 December 2012.

New trainees will be enrolled in programmes leading to the replacement qualification.

This qualification contains standards that replace or are used as substitutes for earlier standards. For the purposes of this qualification people who have gained credit for these earlier standards are exempt from the requirement to gain credit for the replacement or substitute standards – see table below.

Credit for	Exempt from
1495	20456
1497	20451, 20459, 20461
1498	20452
5627	20877

Please note in addition to the above exemption for standard 1495, people transferring from the replaced qualification will be required to gain credit for standard 20449, and those holding credit for standard 1496 will be required to gain credit for standard 20450.

People who hold a current dangerous goods (D) driver licence endorsement are exempt from the requirements for standards as specified below. They are required to pay the credit fee associated with the standard and must apply for the exemption through InfraTrain New Zealand who will process the applications in accordance with the following table and forward the results and fees to NZQA for processing. The exemption must be applied for on the application form in the Appendix.

Current Driver Licence	Exempt from
D (dangerous goods) endorsement	16718

National Certificate in Pavement Surfacing (Chipseal Design) with optional strands in Emulsions, and Polymers [Ref: 0196]

National Certificate in Pavement Surfacing (Chipseal Design) (Level 5) [Ref: 0196]

Review category	B	See Key to Qualification Review Categories at the end of report
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Changes to structure and content

- title updated by removal of strands
- classifications, titles, levels, and credits of reviewed standards updated
- standards 17670 and 17671 moved from strands to compulsory
- standards 1505 and 20463 added to the qualification
- optional strands in Emulsions and Polymers removed from the qualification
- expiring standards 1495, 1496, 1499, 14664, 17674 and 17675, and standards 5627, 5628, 6401 and 6402, not included in the qualification – see exemptions below (where applicable)
- level increased from 4 to 5.

Transition

People currently working towards version 4 of this qualification may either complete the requirements for that version or transfer existing credits to version 5.

New trainees will be enrolled in programmes leading to the new version of the qualification.

This qualification contains standards that replace or are used as substitutes for earlier standards. For the purposes of this qualification, people who have gained credit for these earlier standards are exempt from the requirement to gain credit for the replacement or substitute standards – see table below.

Credit for	Exempt from
1495	20455, 20456
1499	21664
5627	20877
5628	20877
17674	20454

Please note, people holding credit for standard 1496 and 14664 will be required to gain credit for standard 20454.

National Certificate in Pavement Surfacing (Application) with strands in Asphalt, and Chipseal [Ref: 0465]

National Certificate in Pavement Surfacing (Application) (Level 2) with strands in Asphalt and Chipseal [Ref: 0465]

Review category	B	See Key to Qualification Review Categories at the end of report
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Changes to structure and content

- level added to title
- classifications, titles, levels, and credits of reviewed standards updated
- two elective sections added to the qualification
- standards 6467, 6477, and 17327 added to the compulsory section
- standards 5627, 6452 and 6465 moved from the compulsory section, and standard 6470 added, to Elective A
- standard 6400, the Civil Infrastructure Health, Safety, and Environment domain, and the Occupational Health and Safety Practice domain added to Elective B
- expiring standard 1495, and standard 5628, not included in the qualification – see exemptions below (where applicable)
- credit total changed from 44 or 48 to 46 or 51.

Transition

People currently working towards version 2 of this qualification may either complete the requirements for that version or transfer existing credits to version 3.

New trainees will be enrolled in programmes leading to the new version of the qualification.

This qualification contains standards that replace earlier standards. For the purposes of this qualification, people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement standards – see table below.

Credit for	Exempt from
1495	20455, 20456
5627	20877, 20878
5628	20877, 20878
20879	20877
20880	20877, 20878

National Certificate in Pavement Surfacing (Asphalt Production Plant Operation) with an optional strand in Polymers [Ref: 0466]

National Certificate in Pavement Surfacing (Asphalt Production) (Level 4) [Ref: 0466]

Review category	B	See Key to Qualification Review Categories at the end of report
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Changes to structure and content

- descriptor simplified and strand removed from title
- special note added to advise of industry requirements
- titles and credits of reviewed standards updated
- standards 17599, 17602, 18426, 20450, 20456, 20867, 20868, 20872, and 20876 added to compulsory section
- standard 17672 moved from optional strand in Polymers to compulsory section, and optional strand in Polymers removed from the qualification
- standard 16158 moved from compulsory section and made optional to eliminate restrictions on achievement of the qualification
- expiring standards 1495, 1500, 1501, 13512 and 13516, and standards 1510, 13515, and 13521, not included in the qualification – see exemptions below (where applicable)
- credit total changed from 107 or 152, to 136.

Transition

People currently working towards version 3 of this qualification may either complete the requirements for that version or transfer existing credits to version 4.

New trainees will be enrolled in programmes leading to the new version of the qualification.

This qualification contains standards that replace or are used as substitutes for earlier standards. For the purposes of this qualification people who have gained credit for the expiring standards are exempt from the requirement to gain credit for the replacement or substitute standards – see table below.

Credit for	Exempt from
1495	20456
1496	20450
1500	20444
1501	20443

Please note in addition to the above exemption for standard 1495, people transferring from the replaced qualification will be required to gain credit for standard 20449, and those holding credit for standard 13512 will be required to gain credit for standard 20445 respectively.

National Certificate in Pavement Surfacing (Hot-Mix Asphalt Design) with an optional strand in Polymers [Ref: 0467]

National Certificate in Pavement Surfacing (Hot Mix Asphalt Design) (Level 5)
[Ref: 0467]

Review category	B	See Key to Qualification Review Categories at the end of report
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Changes to structure and content

- level added to title
- titles of reviewed standards updated
- standard 17672 moved from optional strand in Polymers to the compulsory section, and optional strand in Polymers removed from the qualification
- standards 1495, 13512, 13513, 13516, and 17673, and standards 1509, 1510, 5627, 6401, 6402, and 13521, not included in the qualification – see exemptions below (where applicable)
- level changed from 4 or 5 with strand, to 5
- credit total changed from 119-149 to 124.

Transition

People currently working towards version 2 of this qualification may either complete the requirements for that version or transfer existing credits to version 3.

New trainees will be enrolled in programmes leading to the new version of the qualification.

This qualification contains standards that replace or are used as replacements for earlier standards. For the purposes of this qualification people who have gained credit for these earlier standards are exempt from the requirement to gain credit for the replacement or substitute standards – see table below.

Credit for	Exempt from
1495	20456
1509 and 13516	21665
17673	21666

Please note in addition to the above exemption for standard 1495, people transferring from the replaced qualification will be required to gain credit for standard 20449, and those holding credit for standards 13512 and 13513 will be required to gain credit for standards 20445 and 20446 respectively.

National Certificate in Pavement Surfacing (Plant Operation) with strands in Asphalt Paving, and Chipseal [Ref: 0468]
replaced by

National Certificate in Pavement Surfacing (Plant Operation) (Level 3) [Ref: 1428]
National Certificate in Pavement Surfacing (Asphalt Paving Machine Operation) (Level 3) [Ref: 1429]

Review category	C	See Key to Qualification Review Categories at the end of report
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National Certificate in Pavement Surfacing (Plant Operation) (Level 3) [Ref: 1428]

Summary of differences between this qualification and the replaced qualification:

- classifications, titles, levels, and credits of reviewed standards updated
- no strands from the replaced qualification included, but an elective section comprised of two sets included
- standards 17327, 20455, 20456, 20867, and 20877 included in compulsory section
- standards 5627, 6465, 8560, 13520, 13521, 16158 and 16702, from replaced qualification, included in Elective Set A
- standards 1759, 5629, 6452, 16701, 16703, 17574-17577, 17972, 18079, 20448, 20462 and 24089 included in Elective Set A.
- choice of health and safety standards included in Elective Set B
- expiring standards 1495 and 1736, and standards 5627, 13519 and 17315, not included in the qualification – see exemptions below (where applicable)
- credit total changed from 64 to 60.

This qualification contains standards that are used as substitutes for earlier standards. For the purposes of this qualification people who have gained credit for these earlier standards are exempt from the requirement to gain credit for the substitute standards – see table below.

Credit for	Exempt from
1495	20455, 20456
5627	20877
5628	20877
20880	20877

National Certificate in Pavement Surfacing (Asphalt Paving Machine Operation) (Level 4) [Ref: 1429]

Summary of differences between this qualification and the replaced qualification:

- titles and credits of reviewed standards updated
- no strands from the replaced qualification included, but an elective section included
- standards 13519 and 13521 from replaced qualification, and standards 6400, 20455, 20456, 20447, 20867, and 20877 included in compulsory section
- standards 16701 and 16703 included in elective section
- expiring standards 1495 and 1736, and standards 5627, 6465, 8560, 13520, 16158, 16702 and 17315, not included in the qualification – see exemption below (where applicable)
- credit total changed from 64 to 63.

Transition

This qualification contains standards that are used as substitutes for an earlier standard. For the purposes of this qualification people who have gained credit for the expiring standard are exempt from the requirement to gain credit for the substitute standards – see table below.

Credit for	Exempt from
1495	20455, 20456

People who hold a current T or W driver licence endorsement are exempt from the requirements for standards as specified below. They are required to pay the credit fee associated with the standard and must apply for the exemption through InfraTrain New Zealand who will process the applications in accordance with the following table and forward the results and fees to NZQA for processing. The exemption must be applied for on the application form in the Appendix.

Current Driver Licence	Exempt from
W (wheels) endorsement	16701
T (tracks) endorsement	16703

People currently working towards version 3 of the National Certificate in Pavement Surfacing (Plant Operation) with strands in Asphalt Paving, and Chipseal [Ref: 0468] may either complete the requirements for that version or transfer existing credits to one of the replacement qualifications.

The last date to meet the requirements of the replaced qualification is 31 December 2012.

New trainees will be enrolled in programmes leading to the replacement qualifications.

Appeals

It is not intended that anyone is disadvantaged by this review, and the above arrangements have been designed for a smooth transition. However, anyone who feels they have been disadvantaged may appeal to:

InfraTrain New Zealand
PO Box 2759
WELLINGTON

Telephone 04 499 9144
Email askus@infratrains.co.nz

Key to Qualification Review Categories

Category A The qualification is published as a new version with the same NQF ID	Changes are made to SSB name, contact details or purpose statement
	No change is made to title, rules or components of the qualification
	No transition arrangements are required
Category B The qualification is published as a new version with the same NQF ID	Changes are made to title, rules or components
	The new version of the qualification recognises a similar skill set to that recognised by the previous version
	The SSB is confident that people awarded the new or previous version are comparable in terms of competence
	Transition arrangements are required if candidates must gain additional/different credits for the new version
Category C A new (replacement) qualification is published with new NQF ID	Significant changes are made to the qualification in terms of components, structure, type or level
	The SSB views people with the replacement qualification as being significantly different in terms of competence from those with the replaced qualification
	Transition arrangements are required
	Transition may be limited to phase-out dates
Category D Qualification will expire. There is no replacement qualification	Qualification is no longer required by industry
	The qualification is designated as expiring and a last date for meeting the qualification requirements is set