

FIELD ENGINEERING AND TECHNOLOGY**Review of *Roadmarking* qualifications**

- **National Certificate in Roadmarking (Assistant) with optional strands in Level 2 and 3 Roads, Line Removal, and Raised Pavement Markers [Ref: 0616]**
- **National Certificate in Roadmarking (Skilled Operator) with optional strands in Long-life Products, Extruded Thermoplastics, Screeded Thermoplastics, Sprayed Thermoplastics, and Testing [Ref: 0617]**

InfraTrain New Zealand has completed the review of the qualifications listed above.

Date new versions published**July 2007**

The next qualification review is planned to take place during 2010.

Replacement qualifications

- **National Certificate in Roadmarking (Assistant) with optional strands in Piloting, Raised Pavement Markers, Thermoplastics, and Transport [Ref: 1301]**
- **National Certificate in Roadmarking (Senior Operator) with strands in Long-Life Products; and Paint Marking; and with optional strands in Temporary Traffic Management on Level 2 and 3 Roads; Testing Pavement Marking; Testing Transit New Zealand T/8; and Testing Transit New Zealand T/12 [Ref: 1302]**

Summary of review and consultation process

The review of the Roadmarking qualifications and their industry specific unit standards was initiated by the Roadmarking industry, as the structure and content of the qualifications were not meeting its needs. The combinations of requirements within previous Roadmarking qualifications were extremely difficult to achieve, so the focus of the review was centred on ensuring that the new qualifications were fit for purpose, compatible with industry roles, and achievable as packaged.

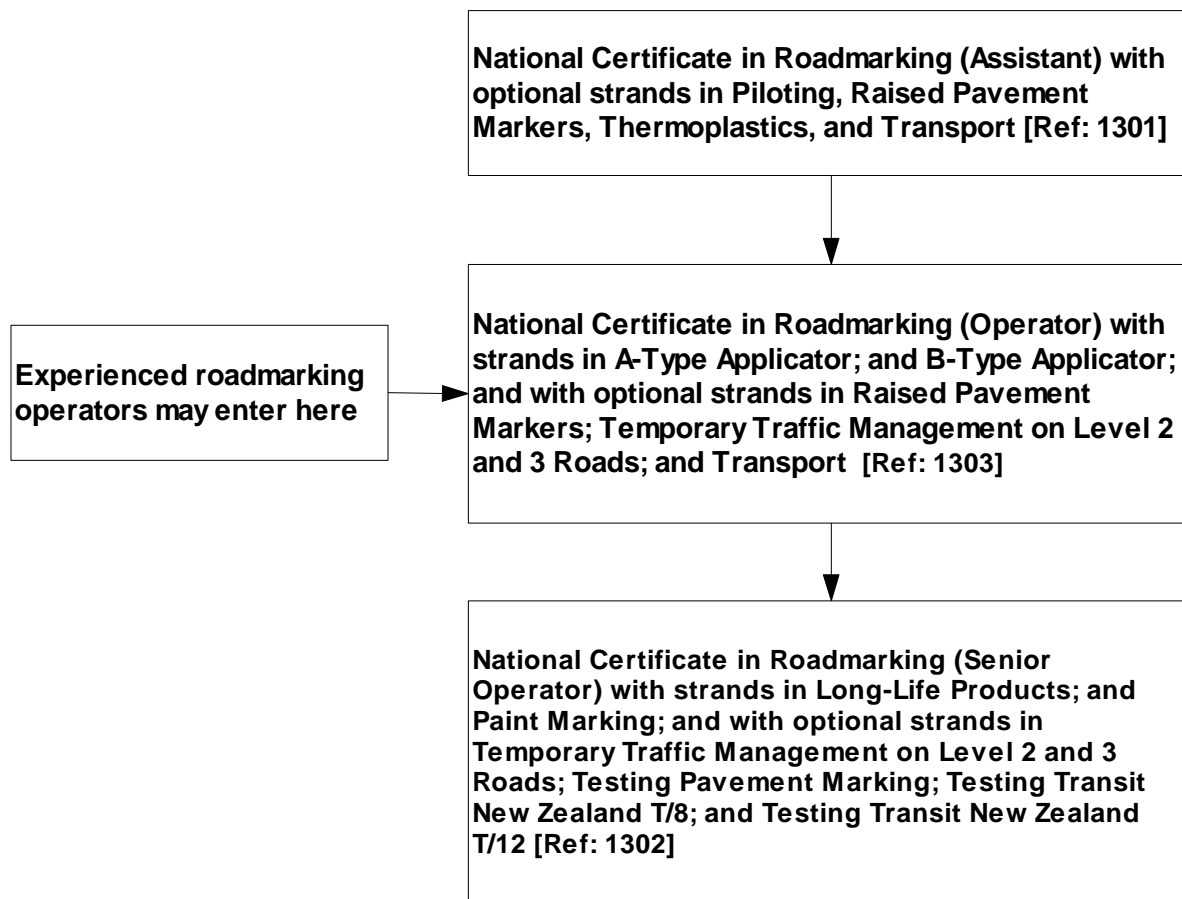
While the New Zealand Roadmarkers Federation and its members played a pivotal role in initiating the review, providing physical and human resources and consultation mechanisms, companies outside the Federation, including Fulton Hogan Ltd, also contributed significantly to ensure a broad base for development, consultation, and endorsement.

Main changes resulting from the review

- This qualification review followed a complete review of the unit standards in the Roadmarking domain that were registered in September 2005. Further revised unit standards were registered in June 2006 and February 2007.

- The two-qualification suite was repackaged in July 2007 into three new qualifications, better reflecting the diversity of job roles within the Roadmarking industry. The National Certificate in Roadmarking (Assistant) with optional strands in Piloting, Raised Pavement Markers, Thermoplastics, and Transport [Ref: 1301] replaced the expiring qualification [Ref: 0616] and The National Certificate in Roadmarking (Senior Operator) with strands in Long-Life Products; and Paint Marking; and with optional strands in Temporary Traffic Management on Level 2 and 3 Roads; Testing Pavement Marking; Testing Transit New Zealand T/8; and Testing Transit New Zealand T/12 [Ref: 1302] replaced the expiring qualification [Ref: 0617]. A new qualification the National Certificate in Roadmarking (Operator) with strands in A-Type Applicator; and B-Type Applicator; and with optional strands in Raised Pavement Markers; Temporary Traffic Management on Level 2 and 3 Roads; and Transport [Ref: 1303] was developed. The new qualification recognises an industry role which is emerging in prominence, and contains standards from both the expiring qualifications [Ref: 0616] and [Ref: 0617]. It is possible that a fourth supervisory qualification may be added, as indicated in the Roadmarking unit standard review report dated September 2005. The development of this qualification is dependent on the outcomes of the review of Civil Plant Operation and Management, and Civil Works and Services unit standards and associated qualifications.
- Unit standards that created barriers to completion were removed and replaced with standards better reflecting the work done by roadmarking employees.
- The inclusion in all qualifications of a core elective section comprised of a choice of standards from the domains of Civil Infrastructure Health, Safety, and Environment; and Occupational Health and Safety Practice in order to provide important health, safety and environmental knowledge and skills in a flexible format.
- Changes to the qualifications' requirements to better reflect industry roles and their associated skill sets. This was achieved by restructuring the qualifications, and using a combination of reviewed and new unit standards that differentiate between simple and complex operating environments to a greater degree than those previously used.
- The new qualifications' structures also recognise the diversity of roadmarking companies, and the nature of work they undertake, through:
 - The use of elective strands for A-type and B-type applicators in [Ref: 1303], and for long-life products and paint marking in [Ref: 1302].
 - Recognition of the diversity of company work practices, individual roles, and timing of exposure to relevant skills and knowledge that roadmarking operators may experience throughout their careers. This is reflected in certain optional strands appearing in more than one qualification. In these instances the optional strands contain the same unit standards at both levels and there are no prerequisite strand arrangements.
- Linkages to the Roadmarking codes of practice, and checklists published by the New Zealand Roadmarkers' Federation, through the inclusion of references to the New Zealand Roadmarkers' Federation Safety, Health and Environment Guide within unit standard performance criteria and special notes. Also the inclusion of unit standards assessing the appropriate use of checklists in commercial situations.

Qualification pathway for Roadmarking



National Certificate in Roadmarking (Assistant) with optional strands in Level 2 and 3 Roads, Line Removal, and Raised Pavement Markers [Ref: 0616]

National Certificate in Roadmarking (Assistant) with optional strands in Piloting, Raised Pavement Markers, Thermoplastics, and Transport [Ref: 1301]

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

- Title changed to reflect changes to optional strands.
- Credit total changed for the core qualification from 52-60 to 61 credits.
- Significant content change to the core compulsory section:
 - standards 6475, 16605, 17327, 20645, 20867, 21418, 21419 and 22152 added;
 - standards 3271 and 4647 removed;
 - expiring standard 15928 replaced by standard 21428;
 - standards 15930, 15931 and 15932 moved to the Core Compulsory section of the National Certificate in Roadmarking (Operator) with strands in A-Type Applicator, and B-Type Applicator; and optional strands [Ref: 1303]; and
 - standard 18043 moved to the new Piloting Optional Strand.
- Core elective A and B removed, with:
 - core elective A standards 17574, 17575, 17576, 17577 and core elective B standards 1754 and 18496 moved to the Transport optional strand; and
 - standards 10851 and 10852 removed.

- An elective section added, comprised of a choice of standards from the Civil Infrastructure Health, Safety, and Environment, and Occupational Health and Safety Practice domains.
- Optional strands in Piloting and Transport added.
- The optional strand in Level 2 and 3 Roads removed, with standard 18044 moved to the Piloting optional strand, and standard 5629 removed from the qualification.
- The optional strand in Line Removal has been removed. Individuals wishing to pursue a career in abrasive blasting are encouraged to consider the National Certificate in Blaster Coating (Level 2) [Ref: 0799].
- Standard 1495 has been removed from, and standard 20455 added to the Raised Pavement Markers Optional Strand.
- An optional strand in Thermoplastics has been added, containing standards previously found in the Long-Life Products and Screeded Thermoplastics optional strands of the National Certificate in Roadmarking (Skilled Operator) with optional strands [ref 0617].

Transition

People currently enrolled in programmes leading to the award of the replaced qualification [Ref: 0616] may either complete the requirements of that qualification or transfer their results to the replacement qualification [Ref: 1301].

The last date for entry to training programmes or courses for the replaced qualification is 31 December 2007. The last date for assessment of the replaced qualification is 31 December 2010.

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.

Credit for	Exempt from
1495	20455
15923	18043
15924	18044
15928	21428
16670 and 16671	18496

For the purposes of this qualification, people who hold a current full driver licence of Class 1, 2, 3, 4, or 5, a current dangerous goods (D) driver licence endorsement, and/or a current forklift (F) driver licence endorsement are exempt from the requirements of the Driver Licence Classes and/or Driver Licence Endorsement 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 application and forward the results and fees to NZQA for processing.

Exemptions will apply only for the purposes of award of the qualification and will not appear on the Record of Learning.

Current Driver Licence	Exempt from
Class 1	16605
Class 2	17574
Class 3	17575
Class 4	17576
Class 5	17577
D (dangerous goods) endorsement	16718
F (forklift) endorsement	18496

National Certificate in Roadmarking (Skilled Operator) with optional strands in Long-life Products, Extruded Thermoplastics, Screeded Thermoplastics, Sprayed Thermoplastics, and Testing [Ref: 0617]

National Certificate in Roadmarking (Senior Operator) with strands in Long-Life Products; and Paint Marking; and with optional strands in Temporary Traffic Management on Level 2 and 3 Roads; Testing Pavement Marking; Testing Transit New Zealand T/8; and Testing Transit New Zealand T/12 [Ref: 1302]

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

- Title changed to reflect changes to strands, and optional strands.
- Credit total changed for core qualification from 90-95 to 102-117 credits.
- Significant content change to the core compulsory section:
 - standard 8559 removed
 - standards 15926, 15927 and 15933 replaced by standards 21425, 21427 and 21431 respectively;
 - standards 6442, 21420, and 21429 added; and
 - standards 15925, 15934, and 15935 moved to the core compulsory section of the National Certificate in Roadmarking (Operator) with strands in A-Type Applicator, and B-Type Applicator; and optional strands [Ref: 1303].
- Core electives A and B removed, with standards 18045, 18046, 18048 and 18049 moved to the A-Type and B-Type Applicator strands in the National Certificate in Roadmarking (Operator) with strands in A-Type Applicator, and B-Type Applicator, and optional strands [Ref: 1303].
- A new core elective section added, comprised of a choice of standards from standard 18664, and the Civil Infrastructure Health, Safety, and Environment, and Occupational Health and Safety Practice domains.
- The optional strand in Long-Life Products changed to an elective strand, with:
 - standard 15942 moved to the Thermoplastics optional strand of the National Certificate in Roadmarking (Assistant) with optional strands [Ref 1301]; and
 - standards 15938, 15940, 15941, and 18054 added from the Extruded Thermoplastics and Sprayed Thermoplastics optional strands.
- A new Paint Marking elective strand added, containing Core elective B standards 18047 and 18050.

- The Extruded Thermoplastics, Screeded Thermoplastics and Sprayed Thermoplastics optional strands removed, with:
 - standard 9020 removed from the qualification;
 - and other standards moved to the Long-Life Products strand or the National Certificate in Roadmarking (Assistant) with optional strands [Ref 0616].
- The optional strand in Testing split into new optional strands in Testing Pavement Marking, Testing Transit New Zealand T/8, and Testing Transit New Zealand T/12.
- A new optional strand in Temporary Traffic Management on level 2 and 3 Roads added.

Transition

People currently enrolled in programmes leading to the award of the replaced qualification [Ref: 0617] may either complete the requirements of that qualification or transfer their results to the replacement qualification [Ref: 1302].

The last date for entry to training programmes or courses for the replaced qualification is 31 December 2007. The last date for assessment of the replaced qualification is 31 December 2010.

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.

Credit for	Exempt from
5630	20879 and 20880
15926	21425
15927	21427
15928	21429
15929	18047
15933	21431
15945	18050

It is the intention of InfraTrain New Zealand that these transition arrangements are fair and do not disadvantage any existing candidate. Anyone who thinks that they have been disadvantaged by the transition process should, in the first instance, contact InfraTrain New Zealand at the address below.

InfraTrain New Zealand
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Telephone 0800 486626
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