

FIELD ENGINEERING AND TECHNOLOGY**Review of *Motor Industry* qualifications**

National Certificate in Motor Industry (Motorcycle Engineering) [Ref: 0015]

National Certificate in Motor Industry (Automotive Engineering) [Ref: 0019]

National Certificate in Motor Industry (Automotive Electrical Engineering)

[Ref: 0137]

National Certificate in Motor Industry (Outdoor Power Equipment Servicing)

[Ref: 0697]

National Certificate in Motor Industry (Trailer Boat Systems Engineering) (Level 3)

[Ref: 0698]

National Certificate in Motor Industry (Trailer Boat Systems Engineering) (Level 4)

[Ref: 0699]

The NZ Motor Industry Training Organisation (Inc) (MITO) has completed the review of the qualifications listed above.

Replacement qualifications

- National Certificate in Motor Industry (Automotive Electrical and Mechanical Engineering) (Level 3) with strands in Electrical and Electronics, Light Vehicle, Motorcycle, Outdoor Power Equipment, and Trailer Boat Systems [Ref: 1421]
- National Certificate in Motor Industry (Automotive Electrical and Mechanical Engineering) (Level 4) with strands in Electrical and Electronics, Light Vehicle, Motorcycle, Outdoor Power Equipment, and Trailer Boat Systems [Ref: 1422]

Date new versions published**August 2008**

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

Summary of review and consultation process

The review of these qualifications was part of a major review of the motor industry and outdoor fabric product qualifications (QReview) conducted by MITO from 2004 to 2007. The entire QReview process was overseen by the QReview Steering Group, who developed review processes and principles to be followed by the Advisory Groups formed for each industry sector, and has given final endorsement to the new and reviewed standards and qualifications.

Initial meetings of the Steering Group identified the need for a clearer career pathway for people already in, and those entering the motor or industrial textile fabrication industries. This led to a more coherent relationship being formed between all of MITO's qualifications through the creation of common cores with strands, and separation into a progression of qualification levels to provide a clearer qualification pathway.

Advisory Groups, made up of industry experts and representative bodies, were formed for each of the qualification sectors to provide advice on the requirements of each of the industry sectors moving forward. These groups each met several times to form the draft qualifications and standards. The resulting documents were then all published on the MITO website and surveys were circulated to all stakeholders to provide feedback. Industry publications and organisations were also used to advise stakeholders that the consultation process was underway. All relevant feedback was incorporated into the final drafts and these were endorsed by the respective Advisory Groups and then by the QReview Steering Group.

Main changes resulting from the review

National Certificate in Motor Industry (Motorcycle Engineering) [Ref: 0015]
 National Certificate in Motor Industry (Automotive Engineering) [Ref: 0019]
 National Certificate in Motor Industry (Automotive Electrical Engineering) [Ref: 0137]
 National Certificate in Motor Industry (Outdoor Power Equipment Servicing) [Ref: 0697]
 National Certificate in Motor Industry (Trailer Boat Systems Engineering) (Level 3) [Ref: 0698]
 National Certificate in Motor Industry (Trailer Boat Systems Engineering) (Level 4) [Ref: 0699]

Replaced by

National Certificate in Motor Industry (Automotive Electrical and Mechanical Engineering) (Level 3) with strands in Electrical and Electronics, Light Vehicle, Motorcycle, Outdoor Power Equipment, and Trailer Boat Systems [Ref: 1421]
National Certificate in Motor Industry (Automotive Electrical and Mechanical Engineering) (Level 4) with strands in Electrical and Electronics, Light Vehicle, Motorcycle, Outdoor Power Equipment, and Trailer Boat Systems [Ref: 1422]

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 replaced qualifications. Changes include:

- The new qualifications have core compulsory and core elective sections.
- The Level 3 qualification Ref: 1421 and the Level 4 qualification Ref: 1422 have strands in Electrical and Electronics, Light Vehicle, Motorcycle, Outdoor Power Equipment, and Trailer Boat Systems with compulsory and elective sections in each strand.
- Candidates must now complete a strand in the Level 3 qualification Ref: 1421 before they may progress to the corresponding strand in the Level 4 qualification Ref: 1422.

National Certificate in Motor Industry (Automotive Electrical Engineering) [Ref: 0137]
has been replaced by the

Electrical and Electronics strands Ref: 1421 at Level 3 and Ref: 1422 at Level 4

- Standards 231, 240, 898, and 16113 were moved to the Core Compulsory section of Ref: 1421.
- Standards 228, 232 and 899 were replaced by new standards in the Core Compulsory section of Ref: 1421.
- Standard 56 was moved to the Core Elective section of Ref: 1421.
- Standard 392 was replaced by new standards in the Core Elective section of Ref: 1421.
- Standards 234, 235, 888, 895, 897, 909, 915, 5456, 5459, 5461, 5462, 15373, and 16114 were moved to the Electrical and Electronics Compulsory section of Ref: 1421.

- Standards 227, 236, 237, 245, 2629, 3399, 5457, and 5464 were replaced by new standards in the Electrical and Electronics Compulsory section of Ref: 1421.
- Standards 242, 891, 902, 934, 2326, and 3387 were moved to the Electrical and Electronics Elective section of Ref: 1421.
- Standards 241, 382, 904, 914, and 15379 were replaced by new standards in the Electrical and Electronics Elective section of Ref: 1421.
- Standards 946 and 968 were moved to the Core Elective section of Ref: 1422 qualification.
- Standards 385 and 11745 were replaced by a new standard in the Core Elective section of Ref: 1422 qualification.
- Standards 906 and 15384 were moved to the Electrical and Electronics Compulsory section of Ref: 1422 qualification.
- Standards 910 and 5463 were replaced by new standards in the Electrical and Electronics Compulsory section of Ref: 1422 qualification.
- Standards 890, 905, 907, 975, 980, 981, 5433, 5436, 15374, and 15433 were moved to the Electrical and Electronics Elective section of Ref: 1422 qualification.
- Standards 386, 881, 951, 2339, 8182, and 15453 were replaced by new standards in the Electrical and Electronics Elective section of Ref: 1422 qualification.
- Standard 887 was replaced by new standards in the Electrical and Electronics Compulsory section of Ref: 1421 and the Electrical and Electronics Compulsory section of the new Level 4 qualification.
- Standard 2348 was replaced by new standards in the Electrical and Electronics Compulsory section and the Electrical and Electronics Elective section of Ref: 1422.
- Standard 5458 was moved to both the Electrical and Electronics Elective section of Ref: 1421 and the Electrical and Electronics Elective section of Ref: 1422.
- Standards 979 and 16115 were replaced by new standards in the Electrical and Electronics Elective section of the Ref: 1421 and the Electrical and Electronics Elective section of Ref: 1422.
- Standard 15375 was replaced by new standards in the Electrical and Electronics Compulsory section of Ref: 1421 and the Electrical and Electronics Elective section of Ref: 1422.
- Standards 57, 229, 230, 233, 239, 243, 247, 387, 924, 930, 966, 985, 988, 3400, 5460, 15368, and 15370 were removed from the overall requirements of the Electrical and Electronics strands of Ref: 1421 and Ref: 1422.

National Certificate in Motor Industry (Automotive Engineering) [Ref: 0019]

has been replaced by the

Light Vehicle strands Ref: 1421 at Level 3 and Ref: 1422 at Level 4

- Standards 231, 240, 249, 898, 3877, and 16113 were moved to the Core Compulsory section of Ref: 1421.
- Standards 228, 232, and 899 were replaced by new standards in the Core Compulsory section of Ref: 1421.
- Standard 56 was moved to the Core Elective section of Ref: 1421.
- Standards 229, 233, 234, 235, 239, 242, 243, 918, 920, 922, 924, 3400, 5459, 5461, 5466, 15373, 15406, and 15446 were moved to the Light Vehicle Compulsory section of Ref: 1421.
- Standards 227, 236, 237, 241, 877, 921, 935, 2629, 8184, 8187, and 11738 were replaced by new standards in the Light Vehicle Compulsory section of Ref: 1421.
- Standards 244, 912, and 8183 were moved to the Light Vehicle Elective section of Ref: 1421.

- Standards 893, 919, 960, and 5462 were moved to the Light Vehicle Compulsory section of Ref: 1422.
- Standards 961, 5463, and 8182 were replaced by new standards in the Light Vehicle Compulsory section of Ref: 1422.
- Standard 878 was replaced by new standards in the Light Vehicle Compulsory section of Ref: 1421 and the Light Vehicle Compulsory section of Ref: 1422.
- Standard 938 was replaced by new standards in the Light Vehicle Compulsory section and the Light Vehicle Elective section of Ref: 1421.
- Standard 896 was replaced by new standards in the Light Vehicle Compulsory section and the Light Vehicle Elective section of Ref: 1421 and the Light Vehicle Compulsory section of Ref: 1422.
- Standard 892 was removed from the overall requirements of the Light Vehicle strands of the Ref: 1421 and Ref: 1422.

National Certificate in Motor Industry (Motorcycle Engineering) [Ref: 0015]

has been replaced by the

Motorcycle strands Ref: 1421 at Level 3 and Ref: 1422 at Level 4

- Standards 231, 240, 249, and 898 were moved to the Core Compulsory section of Ref: 1421.
- Standards 226, 228, 232, and 899 were replaced by new standards in the Core Compulsory section of Ref: 1421.
- Standard 56 was moved to the Core Elective section of Ref: 1421.
- Standard 392 was replaced by new standards in the Core Elective section of Ref: 1421.
- Standards 233, 924, 939, 944, and 15445 were moved to the Motorcycle Compulsory section of Ref: 1421.
- Standards 227, 245, 2327, 8187, 15443, and 15472 were replaced by new standards in the Motorcycle Compulsory section of Ref: 1421.
- Standards 229, 383, 909, 3387, and 15378 were moved to the Motorcycle Elective section of Ref: 1421.
- Standards 230, 876, 913, 914, and 928 were replaced by new standards in the Motorcycle Elective section of Ref: 1421.
- Standard 398 was replaced by new standards in the Core Compulsory section of Ref: 1422.
- Standards 946 and 968 were moved to the Core Elective section of Ref: 1422.
- Standards 879, 890, 934, 3381, 15377, 15442, and 15444 were moved to the Motorcycle Compulsory section of Ref: 1422.
- Standard 391 was replaced by a new standard in the Motorcycle Compulsory section of Ref: 1422.
- Standards 380 and 980 were moved to the Motorcycle Elective section of Ref: 1422.
- Standards 386, 886, and 967 were replaced by new standards in the Motorcycle Elective section of Ref: 1422.
- Standard 877 was replaced by new standards in the Motorcycle Compulsory section and the Motorcycle Elective section of Ref: 1421.
- Standards 962, 973, 979, 2311, 15376 were replaced by new standards in the Motorcycle Compulsory section of Ref: 1421 and the Motorcycle Compulsory section of Ref: 1422.
- Standards 385 and 11745 were replaced by new standards in the Motorcycle Compulsory section of Ref: 1421 and the Core Elective section of Ref: 1422.

- Standards 926 and 927 were replaced by new standards in the Motorcycle Compulsory section of Ref: 1421 and the Motorcycle Compulsory section and the Motorcycle Elective section of Ref: 1422.
- Standards 57, 58, 225, 234, 235, 236, 237, 243, 244, 248, 382, 892, 933, 950, 956, 977, 3400, 15383, and 15474 were removed from the overall requirements of the Motorcycle strands of Ref: 1421 and Ref: 1422.

National Certificate in Motor Industry (Outdoor Power Equipment Servicing) [Ref: 0697]
has been replaced by the
Outdoor Power Equipment strands Ref: 1421 at Level 3 and Ref: 1422 at Level 4

- Standards 231, 240, 249, and 898 were moved to the Core Compulsory section of Ref: 1421.
- Standards 226, 228, 232, and 899 were replaced by new standards in the Core Compulsory section of Ref: 1421.
- Standard 56 was moved to the Core Elective section of Ref: 1421.
- Standards 233, 234, 235, 239, 243, 940, 949, 15380, and 15415 were moved to the Outdoor Power Equipment Compulsory section of Ref: 1421.
- Standards 227, 245, and 928 were replaced by new standards in the Outdoor Power Equipment Compulsory section of Ref: 1421.
- Standard 15425 was moved to the Outdoor Power Equipment Elective section of Ref: 1421.
- Standard 230 was replaced by new standards in the Outdoor Power Equipment Elective section of Ref: 1421.
- Standards 2328, 15374, 15381, 15416, and 15473 were moved to the Outdoor Power Equipment Compulsory section of Ref: 1422.
- Standards 15426 and 15431 were replaced by a new standard in the Outdoor Power Equipment Compulsory section of Ref: 1422.
- Standards 979 and 2342 were replaced by new standards in the Outdoor Power Equipment Compulsory section of Ref: 1421 and the Outdoor Power Equipment Compulsory section of Ref: 1422.
- Standards 57, 58, 225, 229, 244, 248, 379, 879, 2329, and 15368 were removed from the overall requirements of the Outdoor Power Equipment strands of Ref: 1421 and Ref: 1422.

National Certificate in Motor Industry (Trailer Boat Systems Engineering) (Level 3)
 [Ref: 0698]
has been replaced by the
Trailer Boat Systems strand Ref: 1421 at Level 3

- Standards 231, 240, 249, 898, and 16113 were moved to the Core Compulsory section of Ref: 1421.
- Standards 228, 232, and 899 were replaced by new standards in the Core Compulsory section of Ref: 1421.
- Standard 56 was moved to the Core Elective section of Ref: 1421.
- Standard 392 was replaced by new standards in the Core Elective section of Ref: 1421.
- Standards 234, 235, 244, 915, 3400, 4432, 5433, 5459, 5462, 8183, 9913, 9918, 15436, 15437, 15439, 15447, 15450, 15454, and 15467 were moved to the Trailer Boat Systems Compulsory section of Ref: 1421.

- Standards 923, 928, 11777, 15409, and 15414 were replaced by new standards in the Trailer Boat Systems Compulsory section of Ref: 1421.
- Standards 2677, 15455, 15456, 15458, and 15459 were moved to the Trailer Boat Systems Elective section of Ref: 1421.
- Standards 230, 241, 914, 930, 3382, and 13039 were replaced by new standards in the Trailer Boat Systems Elective section of Ref: 1421.
- Standard 9915 was replaced by new standards in the Trailer Boat Systems Compulsory section of Ref: 1422.
- Standards 58, 227, 233, 379, 924, 950, 2780, 4103, 4107, 5764, 9917, 12998, 13000, 13037, and 15457 were removed from the overall requirements of the Trailer Boat Systems strands of Ref: 1421 and Ref: 1422.

National Certificate in Motor Industry (Trailer Boat Systems Engineering) (Level 4)

[Ref: 0699]

has been replaced by the

Trailer Boat Systems strand Ref: 1422 at Level 4

- Standard 15451 was moved to the Trailer Boat Systems Compulsory section of Ref: 1421.
- Standard 398 was replaced by a new standard in the Core Compulsory section of Ref: 1422.
- Standard 946 was moved to the Core Elective section of Ref: 1422.
- Standards 5436, 15438, 15461, and 15463 were moved to the Trailer Boat Systems Compulsory section of Ref: 1422.
- Standard 9916 was replaced by new standards in the Trailer Boat Systems Compulsory section of Ref: 1422.
- Standards 929, 934, 15384, 15434, 15435, 15460, 15462, 15464, 15466, 15468, and 15469 were moved to the Trailer Boat Systems Elective section of Ref: 1422.
- Standard 971 was replaced by new standards in the Trailer Boat Systems Elective section of Ref: 1422.
- Standards 879 and 15465 were moved to both the Trailer Boat Systems Elective section of Ref: 1421 and the Trailer Boat Systems Compulsory section of Ref: 1422.
- Standard 15452 was replaced by new standards in the Trailer Boat Systems Elective section of Ref: 1421 and the Trailer Boat Systems Elective section of Ref: 1422.
- Standard 15453 was replaced by new standards in the Trailer Boat Systems Elective section of Ref: 1421 and the Trailer Boat Systems Compulsory section of Ref: 1422.
- Standards 376, 892, 925, and 11740 were removed from the overall requirements of the Trailer Boat Systems strands of Ref: 1421 and Ref: 1422.

Transition

Programmes leading to the new qualifications are being introduced from 2008. People currently working towards any of the replaced qualifications may either complete the requirements for that qualification or transfer their results to these qualifications.

The last date for entry in to training programmes or courses for the replaced qualifications is December 2009. The last date for assessment of the replaced qualifications is 31 December 2012.

Industry will continue to recognise the former qualifications, so there should be no need to 'upgrade' by those who have already achieved one.

These qualifications contain standards that replace earlier standards. For the purposes of these qualifications 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
226	21858
227	21670, 21671
228	21669, 21859
230	21682, 21685
232	21676, 21707
236	21686, 21717
237	21720, 21721
238	21869, 21722
241	21677, 21692
245	21680, 21716
382	327
385	12008
386	11986
391	934
392	21673, 21708
398	22789
876	23741, 23742
877	24092, 24093
878	24270
881	24443, 24444
886	24272, 24273
887	24094, 24095
889, 5457	24654
896	24025, 24564
899	24105, 24106
901	24426, 24427, 24428
904	24107, 24108
910	24113, 24114
913	21685
914	23992
916	24458
921	24307, 24308
923	24274, 24807
925	24275, 24306
926, 927	24309, 24310, 24311, 24312, 24313
926	24311
927	24310, 24313
928	24276, 24277
930	24179
931	23927, 23928
933	21678
935	24689

Credit for	Exempt from
938	24408, 24409
941	23929, 23930
948	24410, 24411
950	24372, 24373
951	24181, 24182
957	24315, 24316
958	24314, 24690
959	24317, 24318
961	24090, 24091
962	24189, 24190
965	24269, 24270, 24271
967	24280
971	24281, 24282
973	24412, 24413
979	24115, 24116
2311	24429, 24430, 24431
2327	24403, 24404
2339	24117, 24118
2342	24319, 24320
2343	24321, 24322
2348	24119, 24120, 24121, 24122, 24123, 24124
2629	22799, 22800
2670	21907
3382	11963, 11975
3388	23943, 23944
3391	24269, 24270, 24271
3396	24125, 24126
3399	24127, 24128
3863	21869
3864	21719
3879	21670, 21671
3880	21669, 21859
3883	21714, 21715
3884	21683
3885	21682, 21685
5463	24119, 24121, 24122, 24123, 24124
5464	24129, 24130, 24131, 24132
5469	22803, 22927
5739	21673, 21708
5754	21678
5755	23980, 23981
5757	24105
5767	23743
5771	23992
8182	24120
8184	23817, 23818
8185	24325, 24326, 24327
8187	24131, 24132
9074	24457, 24458

Credit for	Exempt from
9915, 9916	23243
11738	21678
11745	12008
11777	15447
13039	18159
15375	24131, 24134
15376	24131, 24135
15379	24136, 24137
15404	24178, 24179, 24180
15409	24349, 24377
15414	23933, 23934
15417	24328, 24329
15419	24330
15420	24689
15421	24314
15422	24690
15426, 15431	24390
15440	24807
15443	24285, 24286
15448	24278, 24279
15449	24280
15452	23935, 23936
15453	11794
15472	24405
15657	24564
16097	21700, 21718
16098	21858
16115	24138, 24139

It is anticipated that no existing trainees will be disadvantaged by these transition arrangements. Any person who feels they have been disadvantaged by these transition arrangements should contact MITO at the following address. All appeals will be considered on a case-by-case basis.

NZ Motor Industry Training Organisation (Incorporated)
 PO Box 10 803
 WELLINGTON

Telephone 0800 88 21 21
 Email info@mito.org.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