

FIELD ENGINEERING AND TECHNOLOGY**Review of *Motor Industry* qualifications****National Certificate in Motor Industry (Automotive Air Conditioning) [Ref: 0002]****National Certificate in Motor Industry (Diesel Fuel Injection Engineering) [Ref: 0139]****National Certificate in Motor Industry (Automotive Machining) [Ref: 0371]**

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

Replacement qualifications

- National Certificate in Motor Industry (Automotive Specialist Engineering) (Level 3) with strands in Automotive Heating, Ventilation, and Air Conditioning; Automotive Machining; Diesel Fuel Injection; and Motorsport [Ref: 1415]
- National Certificate in Motor Industry (Automotive Specialist Engineering) (Level 4) with strands in Automotive Heating, Ventilation, and Air Conditioning; Automotive Machining; Diesel Fuel Injection; and Motorsport [Ref: 1416]

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), which was conducted by MITO from 2004 to 2007. The entire QReview process was overseen by the QReview Steering Group, which developed review processes and principles to be followed by the Advisory Groups formed for each industry sector, and gave final endorsement to the new and reviewed standards and qualifications.

The Steering Group identified the need for a clearer career pathway for people already in, or 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 to provide advice on the requirements of each of the industry sectors. These groups met several times to form the draft qualifications and standards. The drafts were published on the MITO website and surveys were circulated for comment. Industry publications and organisations were also used to advise stakeholders of the consultation process. All relevant feedback was incorporated into the final drafts, which were endorsed by the respective Advisory Groups and the QReview Steering Group.

Main changes resulting from the review

National Certificate in Motor Industry (Automotive Air Conditioning) [Ref: 0002]
 National Certificate in Motor Industry (Diesel Fuel Injection Engineering) [Ref: 0139]
 National Certificate in Motor Industry (Automotive Machining) [Ref: 0371]

Replaced by

National Certificate in Motor Industry (Automotive Specialist Engineering) (Level 3) with strands in Automotive Heating, Ventilation, and Air Conditioning; Automotive Machining; Diesel Fuel Injection; and Motorsport [Ref: 1415]

National Certificate in Motor Industry (Automotive Specialist Engineering) (Level 4) with strands in Automotive Heating, Ventilation, and Air Conditioning; Automotive Machining; Diesel Fuel Injection; and Motorsport [Ref: 1416]

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 new qualifications both have strands in Automotive Heating, Ventilation, and Air Conditioning; Automotive Machining; Diesel Fuel Injection; and Motorsport, with compulsory and elective sections in each strand.
- Candidates must complete a strand in the Level 3 qualification Ref: 1415 before they may progress to the corresponding strand in the Level 4 qualification Ref: 1416.

National Certificate in Motor Industry (Automotive Air Conditioning) [Ref: 0002]

has been replaced by the

Automotive Heating, Ventilation, and Air Conditioning strands Ref: 1415 at Level 3 and Ref: 1416 at Level 4

- Standard 924 included in the core compulsory of Ref: 1415.
- Standard 392 replaced by new standards in the core elective of Ref: 1415.
- Standards 898, 902, 981, 3397, and 15373 included in the strand compulsory of Ref: 1415.
- Standard 899 replaced by new standards in the strand compulsory of Ref: 1415.
- Standards 383 and 912 included in the strand elective of Ref: 1415.
- Standards 382 and 387 replaced by new standards in the strand elective of Ref: 1415.
- Standard 398 replaced by a new standard in the core compulsory of Ref: 1416.
- Standards 946 and 968 included in the core elective of Ref: 1416.
- Standards 906, 934, and 975 included in the strand compulsory of Ref: 1416.
- Standards 391 and 881 replaced by new standards in the strand compulsory of Ref: 1416.
- Standard 878 replaced by a new standard in the strand elective of Ref: 1416
- Standard 385 replaced by a new standard in the strand elective of Ref: 1415 and the core elective of Ref: 1416.
- Standard 965 replaced by new standards in the strand compulsory of Ref: 1415 and the strand elective of Ref: 1416.
- Standards 379, 386, 390, 907, 909, 910, 913, 964, 986, 3384, 5463, 8182, and 15412 not included in the strands of the new qualifications.

National Certificate in Motor Industry (Automotive Machining) [Ref: 0371]

has been replaced by the

Automotive Machining strands Ref: 1415 at Level 3 and Ref: 1416 at Level 4

- Standards 249, 924, and 3877 included in the core compulsory of Ref: 1415.
- Standards 226, 227, and 228 replaced by new standards in the core compulsory of Ref: 1415.
- Standard 56 included in the core elective of Ref: 1415.
- Standard 392 replaced by new standards in the core elective of Ref: 1415.
- Standards 231, 235, 240, 243, 244, 917, 4435, 4438, and 11729 included in the strand compulsory of Ref: 1415.
- Standards 236 and 245 replaced by new standards in the strand compulsory of Ref: 1415.
- Standards 233, 3400, and 15445 included in the strand elective of Ref: 1415.
- Standards 230, 913, 914, and 950 replaced by new standards in the strand elective of Ref: 1415.
- Standard 241 replaced by new standards in the strand compulsory and strand elective of Ref: 1415.
- Standards 946 and 968 included in the core elective of Ref: 1416.
- Standards 11726, 11727, 11728, and 11731 included in the strand compulsory of Ref: 1416.
- Standards 879, 934, 943, 2350, 11722, 11723, 11724, and 11725 included in the strand elective of Ref: 1416.
- Standards 878, 2317 and 15448 replaced by new standards in the strand elective of Ref: 1416.
- Standard 965 replaced by new standards in the strand compulsory of Ref: 1415 and the strand elective of Ref: 1416.
- Standards 57, 58, 225, 248, 382, 383, 929, 932, 971, 977, 2313, 2324, 3382, 11730, 15442, and 15444 not included in the strands of the new qualifications.

National Certificate in Motor Industry (Diesel Fuel Injection Engineering) [Ref: 0139]

has been replaced by the

Diesel Fuel Injection strands Ref: 1415 at Level 3 and Ref: 1416 at Level 4

- Standard 16113 included in the core compulsory of Ref: 1415.
- Standards 227 and 228 replaced by new standards in the core compulsory of Ref: 1415.
- Standards 56 and 64 included in the core elective of Ref: 1415.
- Standard 392 replaced by new standards in the core elective of Ref: 1415.
- Standards 229, 231, 898, 917, 929, 15397, 15402, and 15403 included in the strand compulsory of Ref: 1415.
- Standards 232, 241, 930, 15390, 15404, and 19302 replaced by new standards in the strand compulsory of Ref: 1415.
- Standards 233, 234, 934, 3387, 15382, and 19303 included in the strand elective of Ref: 1415.
- Standards 230, 245, 391, and 913 replaced by new standards in the strand elective of Ref: 1415.
- Standard 398 replaced by a new standard in the core compulsory of Ref: 1416.
- Standard 946 included in the core elective of Ref: 1416.
- Standards 15384 and 19305 included in the strand compulsory of Ref: 1416.

- Standards 15385, 15386, 15388, 15389, 15391, 15392, 15393, 15394, 15395, and 15398 replaced by new standards in the strand compulsory of Ref: 1416.
- Standard 15405 included in the strand elective of Ref: 1416.
- Standards 5451, 5452, 15387, 15399, 15400, 15401, and 15448 replaced by new standards in the strand elective of Ref: 1416.
- Standard 2313 included in both the strand elective of Ref: 1415 and the strand compulsory of Ref: 1416.
- Standard 15396 replaced by new standards in the strand compulsory of Ref: 1415 and the strand compulsory of Ref: 1416.
- Standard 19304 replaced by new standards in the strand elective of Ref: 1415 and the strand compulsory of Ref: 1416.
- Standards 57, 58, 225, 244, 248, and 379 not included in the strands of the new qualifications.

Motorsport strands Ref: 1415 at Level 3 and Ref: 1416 at Level 4

- These are new strands. However they include standards and replacements from the replaced qualifications.

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 to training programmes or courses for the replaced qualifications is December 2009. The last dates for assessments to take place for the replaced qualifications are:

- National Certificate in Motor Industry (Automotive Air Conditioning) [Ref: 0002], 31 December 2011;
- National Certificate in Motor Industry (Automotive Machining) [Ref: 0371], 31 December 2012;
- National Certificate in Motor Industry (Diesel Fuel Injection Engineering) [Ref: 0139], 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.

This qualification contains standards that replace or are being 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.

Credit for	Exempt from
226 or 16098	21858
227 or 3879	21670, 21671
228 or 3880	21669, 21859

Credit for	Exempt from
230 or 3885	21682, 21685
232	21676, 21707
236	21686, 21717
237	21720
241	21677, 21692
245	21680, 21716
382	327
385	12008
387	22785, 22786
391	934
392 or 5739	21673, 21708
398	22789
876	23741, 23742
878	24270
881	24443, 24444
887	24094, 24095
896	24025, 24564
899	24105, 24106
901	24426, 24427, 24428
910	24113, 24114
913	21685
914 or 5771	23992
921	24307, 24308
923	24274, 24807
925	24275, 24306
930	24179
933 or 5754 or 11738	21678
938	24408, 24409
941	23929, 23930

Credit for	Exempt from
950	24372, 24373
957	24315, 24316
958 or 15422	24690
959	24317, 24318
961	24090, 24091
965 or 3391	24269, 24270, 24271
967 or 15449	24280
2317	24283
2348 or 5463	24119, 24124
2348 or 8182	24120
2629	22799, 22800
2670	21907
3394	24191
3399	24127
3862	21704, 21709
3864	21719
3865	21705, 21710
3875 and 16110	21695, 21697
3876	24081, 24082
3883	21714, 21715
3884	21683
5451	24193, 24194
5452	24197
5464 or 8187	24131, 24132
5733	24020, 24021
5741	23976, 23977
5745	23978, 23979
5755	23980, 23981
5756	23982

Credit for	Exempt from
5757	24105
5764	23986, 23987
5767	23743
5774	23993, 23995
8184	23817, 23818
8185	24325, 24326, 24327
15375 or 15376	24131
15385	24200, 24201
15386	24202, 24203
15387	24204, 24205
15388	24206, 24207
15389	24208, 24209
15390	24210, 24211
15391	24212, 24213
15392	24214, 24215
15393	24216, 24217
15394	24218, 24219
15395	24220, 24221
15396	24222, 24223
15398	24224, 24225
15399	24226, 24227
15400	24228, 24229
15401	24230, 24231
15404	24179, 24180
15440	24807
15448	24278, 24279
15657	24564
16097	21718

Credit for	Exempt from
19302	24195, 24196
19304	24232, 24233
19632	22801, 22802

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 10803
WELLINGTON

Telephone 0800 88 2121
Facsimile 04 494 0006
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
Category C A new (replacement) qualification is published with new NQF ID	Transition arrangements are required if candidates must gain additional/different credits for the new version
	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
Category D Qualification will expire. There is no replacement qualification	Transition may be limited to phase-out dates
	Qualification is no longer required by industry
	The qualification is designated as expiring and a last date for meeting the qualification requirements is set