

FIELD ENGINEERING AND TECHNOLOGY, AND MANUFACTURING**Revision of *Motor Industry* qualifications and unit standards****Qualifications**

Qualification Titles	Reference
National Certificate in Motor Industry (Diesel Fuel Injection Engineering)	0139
National Certificate in Motor Industry (Automotive Machining)	0371
National Certificate in Motor Industry (Coachbuilding) with strands in Passenger Service Vehicles, Commercial Vehicles, and Motor Homes and Caravans	0413

Unit Standards

Subfield	Domain	ID
Motor Industry	Automotive Administration	225, 382, 386, 387, 391, 392, 398, 986, 3384, 3888, 19634
	Automotive Air Conditioning	881
	Automotive Electrical and Electronics	232, 899, 910, 5463, 8182
	Automotive Fuel Systems and Exhaust	241, 930, 5451, 5452, 15385-15396, 15398-15401, 15404, 19302, 19304
	Automotive Preventative Maintenance	245
	Automotive Preventive Maintenance	964
	Automotive Sales	385, 390, 3382, 15412
	Automotive Workshop Engineering	226-228, 230, 913, 914, 950, 3879
	Coachbuilding	10713
	Engine Repairs	236, 878, 932, 965, 971, 2317, 11730, 15448
	Panelbeating	5741, 5764, 5768, 5771
	Vehicle Bodywork	3861-3863, 3865, 3870, 3883, 3885, 5739, 5746, 5763, 5767, 16097-16099, 19632

The NZ Motor Industry Training Organisation (Inc) (MITO) has revised the qualifications and unit standards listed above.

Date new versions published

August 2014

New expiry date

December 2020

Reason for the revision

The change to the expiry date was in response to delays in the Targeted Review of Qualifications process. The expiry of the affected standards and qualifications was changed to 2020 to ensure that all learners enrolling in these programmes have time to complete the programmes and allow MITO time to implement programmes leading to the

replacement qualifications.

Main changes resulting from the revision

The expiry of the qualifications and unit standards listed above has been changed to 31 December 2020.

There were no changes to titles, levels, or credits.

Transition

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

Versions 2, 3, 4, 5 and 6 of this qualification contain a standard that has been replaced by another standard, and which will expire in December 2014. Reverse transition has been included in this qualification to allow candidates to complete the qualification using either the expiring standard or the replacement standard.

For the purpose of this qualification, people who have gained credit for the replacement standard are exempt from the requirement to gain credit for the expiring standard – see table below.

Credit for	Exempt from
26862	379

National Certificate in Motor Industry (Coachbuilding) with strands in Passenger Service Vehicles, Commercial Vehicles, and Motor Homes and Caravans [Ref: 0413]

This qualification contains a standard that has been replaced by a later standard. Reverse transition has been included in this qualification so people can complete the qualification using either the expired standard or replacement standard.

For the purpose of this qualification, people who have gained credit for the replacement standards are exempt from the requirement to gain credit for the expired standard – see table below.

Credit for	Exempt from
21907	2670

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 (Inc)
PO Box 10803
Wellington 6143

Telephone 0800 88 21 21
Facsimile 04 494 0006
Email info@mito.org.nz

Appendix

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

The expiry date of the unit standards listed below was extended from 31 December 2016 to 31 December 2020.

Engineering and Technology > Motor Industry > Automotive Administration

ID	Title	Level	Credit	Previous expiry date	New expiry date
225	Identify the occupational areas and structure of the New Zealand Automotive Industry	1	2	31/12/2016	31/12/2020
382	Demonstrate knowledge of payment types, and carry out office procedures in an automotive company	3	4	31/12/2016	31/12/2020
386	Determine stock levels of automotive products	5	4	31/12/2016	31/12/2020
387	Demonstrate knowledge of stock ordering, and maintain stock for an automotive business	3	6	31/12/2016	31/12/2020
391	Prepare a quotation for the supply of an automotive product, repair, or service	3	3	31/12/2016	31/12/2020
392	Maintain automotive stock and plant security	2	2	31/12/2016	31/12/2020
398	Interpret warranties and guarantees that apply to the automotive industry	4	2	31/12/2016	31/12/2020
986	Prepare and implement an automotive on-the-job instruction programme	5	5	31/12/2016	31/12/2020
3384	Demonstrate an automotive product to show its operation and use	3	3	31/12/2016	31/12/2020
3888	Identify the occupational areas and structures associated with the NZ motor body industry	1	1	31/12/2016	31/12/2020
19634	Book in work, interpret instructions, and plan the job	3	3	31/12/2016	31/12/2020

Engineering and Technology > Motor Industry > Automotive Air Conditioning

ID	Title	Level	Credit	Previous expiry date	New expiry date
881	Test, service, and repair an automotive air conditioning system	4	4	31/12/2016	31/12/2020

Engineering and Technology > Motor Industry > Automotive Electrical and Electronics

ID	Title	Level	Credit	Previous expiry date	New expiry date
232	Test an automotive electrical circuit	2	8	31/12/2016	31/12/2020
899	Carry out automotive wiring repairs and test circuits for serviceability	3	3	31/12/2016	31/12/2020
910	Diagnose and rectify faults in automotive instruments and gauges	4	5	31/12/2016	31/12/2020
5463	Explain the operation and repair requirements of automotive electronic control systems	4	8	31/12/2016	31/12/2020
8182	Diagnose and rectify faults in automotive electronically controlled systems	4	6	31/12/2016	31/12/2020

Engineering and Technology > Motor Industry > Automotive Fuel Systems and Exhaust

ID	Title	Level	Credit	Previous expiry date	New expiry date
241	Describe the operation of a diesel fuel system and perform minor servicing tasks	2	3	31/12/2016	31/12/2020
930	Describe turbocharger operation, and service a turbocharger system on a vehicle or machine	3	3	31/12/2016	31/12/2020
5451	Demonstrate knowledge of Cummins PT diesel fuel pumps, and overhaul them	4	6	31/12/2016	31/12/2020
5452	Demonstrate knowledge of Cummins diesel fuel injectors, and overhaul them	4	4	31/12/2016	31/12/2020
15385	Demonstrate knowledge of Simms Minimec diesel fuel injection pumps, and overhaul them	4	8	31/12/2016	31/12/2020
15386	Demonstrate knowledge of DPA type diesel fuel injection pumps, and overhaul them	4	8	31/12/2016	31/12/2020
15387	Demonstrate knowledge of DPS type diesel fuel injection pumps, and overhaul them	4	8	31/12/2016	31/12/2020
15388	Demonstrate knowledge of P type diesel fuel injection pumps, and overhaul them	4	8	31/12/2016	31/12/2020
15389	Demonstrate knowledge of A type diesel fuel injection pumps, and overhaul them	4	8	31/12/2016	31/12/2020
15390	Demonstrate knowledge of VE type diesel fuel injection pumps, and overhaul them	4	8	31/12/2016	31/12/2020

ID	Title	Level	Credit	Previous expiry date	New expiry date
15391	Demonstrate knowledge of RSV type diesel governors, and overhaul them	4	6	31/12/2016	31/12/2020
15392	Demonstrate knowledge of RQ and RQV type diesel governors, and overhaul either of them	4	6	31/12/2016	31/12/2020
15393	Demonstrate knowledge of RAD and RFD type diesel governors, and overhaul either of them	4	6	31/12/2016	31/12/2020
15394	Demonstrate knowledge of R801 and R901 type diesel governors, and overhaul either of them	4	6	31/12/2016	31/12/2020
15395	Demonstrate knowledge of RLD type diesel governors, and overhaul them	4	6	31/12/2016	31/12/2020
15396	Demonstrate knowledge of VE diesel injection pump additional devices, and overhaul them	4	8	31/12/2016	31/12/2020
15398	Demonstrate knowledge of Stanadyne diesel fuel injection pumps, and overhaul them	4	8	31/12/2016	31/12/2020
15399	Describe Caterpillar diesel fuel injection pumps, and overhaul them	4	12	31/12/2016	31/12/2020
15400	Demonstrate knowledge of DPC type diesel fuel injection pumps, and overhaul them	4	8	31/12/2016	31/12/2020
15401	Demonstrate knowledge of EP9 type diesel fuel injection pumps, and overhaul them	4	8	31/12/2016	31/12/2020
15404	Demonstrate knowledge of diesel engine air intake and exhaust systems, and inspect and test them	3	6	31/12/2016	31/12/2020
19302	Demonstrate knowledge of diesel fuel injectors, and repair them	4	4	31/12/2016	31/12/2020
19304	Describe turbocharger diagnostic procedures and recondition an automotive turbocharger	4	7	31/12/2016	31/12/2020

Engineering and Technology > Motor Industry > Automotive Preventative Maintenance

ID	Title	Level	Credit	Previous expiry date	New expiry date
245	Select and apply lubricants and sealants for automotive and related industry applications	2	2	31/12/2016	31/12/2020

Engineering and Technology > Motor Industry > Automotive Preventive Maintenance

ID	Title	Level	Credit	Previous expiry date	New expiry date
964	Implement a schedule for an automotive preventative maintenance programme	5	2	31/12/2016	31/12/2020

Engineering and Technology > Motor Industry > Automotive Sales

ID	Title	Level	Credit	Previous expiry date	New expiry date
385	Sell automotive products	3	4	31/12/2016	31/12/2020
390	Promote automotive products	5	4	31/12/2016	31/12/2020
3382	Pick, pack, and dispatch automotive parts	2	3	31/12/2016	31/12/2020
15412	Demonstrate knowledge of automotive product promotion, and complete a promotional plan	4	4	31/12/2016	31/12/2020

Engineering and Technology > Motor Industry > Automotive Workshop Engineering

ID	Title	Level	Credit	Previous expiry date	New expiry date
226	Perform safe working practices in an automotive workshop	2	2	31/12/2016	31/12/2020
227	Carry out general engineering tasks to repair and make automotive components	2	4	31/12/2016	31/12/2020
228	Select and use hand tools and workshop equipment for an automotive application	2	5	31/12/2016	31/12/2020
230	Repair and manufacture automotive components by oxy-acetylene gas welding	2	3	31/12/2016	31/12/2020
913	Use the oxy-acetylene process for welding and allied uses in the motor industry	3	4	31/12/2016	31/12/2020
914	Metal-arc gas shield (MIG) weld automotive components	3	4	31/12/2016	31/12/2020
950	Manual metal arc weld automotive components in flat and vertical positions	3	6	31/12/2016	31/12/2020
3879	Carry out general engineering tasks in the motor body industry	2	4	31/12/2016	31/12/2020

Engineering and Technology > Motor Industry > Coachbuilding

ID	Title	Level	Credit	Previous expiry date	New expiry date
10713	Carry out fixed glass installation to a vehicle	3	4	31/12/2016	31/12/2020

Engineering and Technology > Motor Industry > Engine Repairs

ID	Title	Level	Credit	Previous expiry date	New expiry date
236	Service automotive cooling systems	2	4	31/12/2016	31/12/2020
878	Repair an engine cooling system	3	4	31/12/2016	31/12/2020
932	Inspect engine flywheel and fit starter ring gear	2	1	31/12/2016	31/12/2020
965	Analyse vehicle or machine cooling system problems and requirements	5	4	31/12/2016	31/12/2020
971	Diagnose and repair diesel engine shut-down systems	4	2	31/12/2016	31/12/2020
2317	Service diesel engine braking systems and exhaust braking systems	4	4	31/12/2016	31/12/2020
11730	Inspect and rebuild an engine crankshaft or camshaft	4	6	31/12/2016	31/12/2020
15448	Demonstrate knowledge of engine performance testing, and tune and test a 4 stroke diesel engine	4	7	31/12/2016	31/12/2020

Engineering and Technology > Motor Industry > Panelbeating

ID	Title	Level	Credit	Previous expiry date	New expiry date
5741	Use and maintain a hydraulic body jack and attachments in the motor industry	3	2	31/12/2016	31/12/2020
5764	Repair a damaged glass fibre reinforced plastic panel (GRP) using a repair kit in the motor industry	3	4	31/12/2016	31/12/2020
5768	Remove and replace a motor vehicle fuel tank	3	2	31/12/2016	31/12/2020
5771	Use and maintain a metal-arc gas shield (MIG) welding plant in the motor industry	4	5	31/12/2016	31/12/2020

Engineering and Technology > Motor Industry > Vehicle Bodywork

ID	Title	Level	Credit	Previous expiry date	New expiry date
3861	Remove and replace exterior motor body parts and fit body protection mouldings in the motor industry	2	3	31/12/2016	31/12/2020
3862	Remove and replace damaged bolted on motor body panels in the motor body industry	2	3	31/12/2016	31/12/2020
3863	Remove and replace road wheels in the motor industry	1	1	31/12/2016	31/12/2020
3865	Fill and sand a repair in the motor body industry	2	2	31/12/2016	31/12/2020

ID	Title	Level	Credit	Previous expiry date	New expiry date
3870	Prepare bare metal for painting in the motor body industry	2	2	31/12/2016	31/12/2020
3883	Identify and use fastening systems in the motor industry	2	4	31/12/2016	31/12/2020
3885	Demonstrate knowledge of and use an oxy-acetylene welding plant in the motor body industry	2	4	31/12/2016	31/12/2020
5739	Maintain security in the workplace in the motor and related industries	2	2	31/12/2016	31/12/2020
5746	Identify and prevent corrosion in the motor industry	3	3	31/12/2016	31/12/2020
5763	Identify and dispose of hazardous waste materials in the motor and related industries	3	3	31/12/2016	31/12/2020
5767	Demonstrate knowledge of current legislation in the motor body industry	3	2	31/12/2016	31/12/2020
16097	Identify, store and use hazardous materials in the motor and related industries	2	3	31/12/2016	31/12/2020
16098	Perform safe work practices in the motor industry	2	4	31/12/2016	31/12/2020
16099	Use and maintain power tools and equipment in the motor body industry	2	4	31/12/2016	31/12/2020
19632	Identify, select, and use adhesives and sealants for vehicle bodywork applications	3	3	31/12/2016	31/12/2020