

National Certificate in Motor Industry (Outdoor Power Equipment Servicing)

Level	4
Credits	197

This qualification has been **reviewed**. The last date to meet the requirements is 31 December 2020.

Purpose

This certificate is designed as the national qualification for people working in the Outdoor Power Equipment branch of the Motor Industry.

This qualification recognises the knowledge and skills required to carry out all tasks required in an outdoor power equipment workshop from preparing a machine or equipment for delivery to a customer to diagnosing and repairing mechanical and electrical faults in outdoor powered equipment. The certificate is designed for those wishing to work in a safe and professional manner; to maintain standards for the outdoor power equipment servicing industry; and to provide a means of recognising prior learning for those already working in the industry.

This certificate is linked to exit points for industry recognition purposes, where apprentices may on application receive NZ Motor Industry Training Organisation certificates for credits achieved. Details regarding industry recognition, industry registration, and entry and exit points for the apprenticeship can be obtained from NZ Motor Industry Training Organisation.

Standards in this qualification have relevance to other automotive engineering qualifications, and those people who wish to consider additional unit standards or qualifications should contact NZ Motor Industry Training Organisation for advice.

Replacement Information

This qualification, the 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 (Trailer Boat Systems Engineering) (Level 3) [Ref: 0698], and the National Certificate in Motor Industry (Trailer Boat Systems Engineering) (Level 4) [Ref: 0699] have been replaced by the National Certificate in Motor Industry (Automotive Electrical and Mechanical Engineering) (Level 3) with strands in Electrical and Electronics, Light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] and the 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].

Special Notes

It is expected that most people will undertake training towards this qualification in the form of apprenticeship with the use of record of achievement books and training manuals. It is recommended that in the first instance, a “training plan” be developed with the assistance of a NZ Motor Industry Training Organisation representative.

Applications for recognition of prior learning should be made to the NZ Motor Industry Training Organisation or accredited training providers. Credits are not automatic and normally an assessment of ability is required.

Credit Range

	Compulsory	Elective
Level 1 credits	7	0-15
Level 2 credits	73	0-30
Level 3 credits	17	0-30
Level 4 credits	70	0-30
Minimum credits	167	30

Requirements for Award of Qualification

Award of NZQF National Qualifications

Credit gained for a standard may be used only once to meet the requirements of this qualification.

Unit standards and achievement standards that are equivalent in outcome are mutually exclusive for the purpose of award. The table of mutually exclusive standards is provided on the New Zealand Qualifications Authority (NZQA) website: <http://www.nzqa.govt.nz/qualifications-standards/standards/standards-exclusion-list/>.

Reviewed standards that continue to recognise the same overall outcome are registered as new versions and retain their identification number (ID). Any version of a standard with the same ID may be used to meet qualification requirements that list the ID and/or that specify the past or current classification of the standard.

Summary of Requirements

- Compulsory standards
- Elective – A minimum of 30 credits as specified

Detailed Requirements

Compulsory

The following standards are required

Engineering and Technology > Motor Industry > Automotive Administration

ID	Title	Level	Credit
225	Identify the occupational areas and structure of the New Zealand Automotive Industry	1	2
248	Describe an apprenticeship employment contract for the automotive industry	2	1

ID	Title	Level	Credit
249	Carry out automotive industry personal workplace requirements	2	5
15368	Pick up and deliver a customer's vehicle, machine, or equipment	1	1

Engineering and Technology > Motor Industry > Automotive Electrical and Electronics

ID	Title	Level	Credit
232	Test an automotive electrical circuit	2	8
233	Service an automotive battery	2	2
234	Describe automotive starting and charging systems and their operation	2	4
235	Describe automotive ignition systems and their operation	2	3
898	Identify an automotive wiring diagram and translate information to a motor vehicle circuit	3	3
899	Carry out automotive wiring repairs and test circuits for serviceability	3	3
979	Diagnose and rectify faults in an engine flywheel ignition system	4	5
15374	Diagnose and repair faults in electrical starting and charging systems on outdoor powered equipment	4	4

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

ID	Title	Level	Credit
240	Demonstrate knowledge of petrol fuel systems	2	3
15380	Demonstrate knowledge of carburettors used on outdoor powered equipment	3	4
15381	Diagnose and rectify faults in carburetted petrol fuel systems used on outdoor powered equipment	4	4

Engineering and Technology > Motor Industry > Automotive Preventative Maintenance

ID	Title	Level	Credit
229	Identify the functions and general locations of motor vehicle systems and components	2	5
245	Select and apply lubricants and sealants for automotive and related industry applications	2	2

Engineering and Technology > Motor Industry > Automotive Transmission Systems

ID	Title	Level	Credit
239	Demonstrate knowledge of automotive manual transmissions	2	2
2342	Demonstrate knowledge of hydraulic transmission drives on plant and machinery, and repair them	4	5
15415	Demonstrate knowledge of manual drive systems used on outdoor powered equipment	3	4
15416	Test, diagnose, and rectify faults in manual drive systems used on outdoor powered equipment	4	8

Engineering and Technology > Motor Industry > Automotive Workshop Engineering

ID	Title	Level	Credit
226	Perform safe working practices in an automotive workshop	2	2
227	Carry out general engineering tasks to repair and make automotive components	2	4
228	Select and use hand tools and workshop equipment for an automotive application	2	5
230	Repair and manufacture automotive components by oxy-acetylene gas welding	2	3
949	Identify types of lawnmower, their application and mechanical operation	2	3
2328	Service hand held outdoor powered equipment	4	10
15425	Repair hand push mowers	2	1
15426	Repair ride-on rotary mowers	4	8
15431	Repair walk behind rotary mowers	4	9

Engineering and Technology > Motor Industry > Engine Repairs

ID	Title	Level	Credit
231	Explain the operation of two and four stroke petrol and diesel engines	2	4
243	Carry out basic tuning on a four stroke petrol engine	2	4
244	Disassemble and assemble a four stroke engine	2	6
879	Test a two stroke petrol engine to determine its condition	4	4
928	Demonstrate knowledge of, and repair a manual starting system on a small engine	2	2
940	Check and rectify governor faults on a small engine	2	2
2329	Repair hand held motors	4	10

Engineering and Technology > Motor Industry > Vehicle Braking Systems

ID	Title	Level	Credit
15473	Diagnose and rectify brake system faults on ride-on outdoor powered equipment	4	3

Service Sector > Service Sector Skills > Selling Skills

ID	Title	Level	Credit
58	Complete a sales transaction in a given situation	1	2
379	Sell goods and/or services on an in-coming telephone call	3	3

Service Sector > Service Sector Skills > Service Sector - Core Skills

ID	Title	Level	Credit
56	Attend to customer enquiries face-to-face and on the telephone	1	2
57	Provide customer service in given situations	2	2

Elective

A minimum of 30 credits

Field	Subfield	Domain
Engineering and Technology	Motor Industry	Any

Transition Arrangements**Version 3**

Version 3 of this qualification was issued to extend the expiry date, and subsequently republished to include reverse transition arrangements for expiring standards 379 and 58.

Version 3 of this qualification contains unit standards that have expired. For the purposes 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
12009	58

Previous versions of the qualification

Version 2 was issued to indicate that this qualification is expiring.

For detailed information see [Review Summaries](#) on the NZQA website.

This qualification, the 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 (Trailer Boat Systems Engineering) (Level 3) [Ref: 0698], and the National Certificate in Motor Industry (Trailer Boat Systems Engineering) (Level 4) [Ref: 0699] have been replaced by the 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] and the 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].

Version 1 replaced the Trade Certificate in Small Engine Servicing with the National Certificate in Motor Industry (Outdoor Power Equipment Servicing). The Trade Certificate in Small Engine Servicing will continue to be recognised by NZQA, MITO, and the industry. There is no requirement for people who hold the Trade Certificate in Small Engine Servicing to gain the national certificate.

People with an incomplete Trade Certificate in Small Engine Servicing after 31 December 2003 who wish to transfer to the National Certificate in Motor Industry (Outdoor Power Equipment Servicing) can have their existing achievements recognised through Recognition of Prior Learning Process (RPL). They are required to be registered on the Record of Learning and to pay the \$1.00 per credit and any additional costs associated with the RPL process.

Transition Table

Trade Certificate in Small Engine Servicing	Unit standards credited	Unit standards exempt	Unit standards still required for completion of National Certificate in Motor Industry (Outdoor Power Equipment)
2nd Assessment	226, 227, 228, 230, 231, 232, 233, 234, 235, 240, 243, 244, 245, 249, 898, 899, 928, 940, 949, 15380, 15415, 15425	56, 57, 58, 225, 229, 239, 248, 379, 15368.	879, 979, 2328, 2329, 2342, 15374, 15381, 15416, 15426, 15431, 15473, and meet the elective requirements

NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	November 1999	December 2012
Review	2	August 2008	December 2012
Revision	3	November 2010	December 2016
Republished	3	January 2014	December 2016
Republished	3		December 2020

Standard Setting Body

NZ Motor Industry Training Organisation (Incorporated)
PO Box 10803
The Terrace
Wellington 6143

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

Other standard setting bodies whose standards are included in the qualification

NZQA
ServiceIQ

Certification

This certificate will display the logos of NZQA, the NZ Motor Industry Training Organisation (Incorporated), and the organisation that has been granted consent to assess against standards that meet the requirements of the qualification (accredited).

Classification

This qualification is classified according to the classification system listed on the Directory of Assessment Standards (DAS) and the New Zealand Standard Classification of Education (NZSCED) system as specified below.

DAS Classification		NZSCED	
Code	Description	Code	Description
257	Engineering and Technology > Motor Industry	030503	Engineering and Related Technologies > Automotive Engineering and Technology > Vehicle Mechanics

Quality Management Systems

Providers and Industry Training Organisations must be granted consent to assess by a recognised Quality Assurance Body before they can register credits from assessment against standards. Organisation with consent to assess and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Consent to assess requirements and the moderation system are outlined in the associated Consent and Moderation Requirements (CMR) for each standard.

Reviewed

Prerequisite Diagram

