

National Certificate in Motor Industry (Automotive Radiator Repair)

Level	4
Credits	185

This qualification has been **reviewed**. The last date to meet the requirements is 31 December 2016.

Purpose

This certificate is designed as the national qualification for people who are in the Automotive Radiator Repair industry. Holders of this certificate are able to communicate with customers and repair a range of radiators and vehicle cooling systems. They also have knowledge of the current legislation associated with the industry and a knowledge of estimating and quoting.

A record of achievement book will be required by trainees for the purposes of recording assessment results and showing progress through the qualification. Courses and classes may be offered by accredited training providers.

Replacement Information

This qualification, the National Certificate in Motor Industry (Brake Service Engineering) [Ref: 0096], National Certificate in Motor Industry (Automotive Servicing) [Ref: 0138], National Certificate in Motor Industry (Automotive Steering, Suspension, and Alignment) with an optional strand in Heavy Commercial Vehicles [Ref: 0246], National Certificate in Motor Industry (Exhaust Servicing) [Ref: 0372], and the National Certificate in Motor Industry (Tyre Servicing) with optional strands in Light and Heavy Commercial Vehicle Tyres, Agricultural Equipment Tyres, Off-The-Road Equipment Tyres, Industrial Tyres, and Steering and Suspension [Ref: 0373] have been replaced by the National Certificate in Motor Industry (Vehicle Servicing) with strands in Brake and Clutch, Exhaust Systems, Radiator Repair, Steering and Suspension, Tyres, Underbody and General Service, and Vehicle Security, and with an optional strand in Heavy Vehicle Steering and Suspension [Ref: 1420].

Special Notes

It is expected that most people will undertake training towards this qualification in the form of an apprenticeship. Although most training will be carried out on the job through the use of training manuals and record of achievement books, combinations of unit standards or individual unit standards may be offered by accredited polytechnics and private training establishments.

Unit 226, *Perform safe working practices in an automotive workshop* requires the trainee to complete a Basic First Aid Certificate course (St John/Red Cross) of no less than 16 hours or demonstrate equivalent knowledge and skills.

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

Credit Range

	Compulsory
Level 2 credits	24
Level 3 credits	76
Level 4 credits	85
Total	185

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

Detailed Requirements

Compulsory

The following standards are required

Engineering and Technology > Motor Industry > Automotive Administration

ID	Title	Level	Credit
382	Demonstrate knowledge of payment types, and carry out office procedures in an automotive company	3	4
387	Demonstrate knowledge of stock ordering, and maintain stock for an automotive business	3	6
398	Interpret warranties and guarantees that apply to the automotive industry	4	2
934	Cost a job for an automotive repair or service	4	3
946	Book in work for an automotive business	4	4
968	Estimate the cost of an automotive repair	4	4

Engineering and Technology > Motor Industry > Automotive Air Conditioning

ID	Title	Level	Credit
902	Test a vehicle heating and ventilation system	3	3

Engineering and Technology > Motor Industry > Automotive Electrical and Electronics

ID	Title	Level	Credit
3877	Demonstrate knowledge of protecting vehicle electronics in the motor industry	2	2

Engineering and Technology > Motor Industry > Automotive Plastic Repair

ID	Title	Level	Credit
876	Repair plastic automotive components	3	7

Engineering and Technology > Motor Industry > Automotive Radiator Repair

ID	Title	Level	Credit
6999	Repair a damaged metal fuel tank in the radiator repair industry	4	4
7000	Select, use, and maintain hand tools and equipment in the radiator repair industry	2	2
7001	Select, use, and maintain plant and equipment in the radiator repair industry	3	3
7002	Recore a brass tanked vehicle radiator in the radiator repair industry	3	10
7003	Clean and repair a radiator in the radiator repair industry	4	12
7004	Repair an oil cooler in the radiator repair industry	4	5
7005	Clean and repair an aluminium cored radiator in the radiator repair industry	4	8
7006	Modify a radiator in the radiator repair industry	4	10
7007	Custom build a radiator in the radiator repair industry	4	10
7008	Demonstrate product knowledge in the radiator repair industry	3	6
7009	Remove and repair a heater assembly in the radiator repair industry	4	7
7010	Use solder to repair radiators in the radiator repair industry	2	3
7011	Recore and repair a plastic tanked radiator in the radiator repair industry	3	6
7012	Demonstrate knowledge of, and identify and diagnose vehicle cooling system faults	3	12
7013	Remove and replace cooling system components in the radiator repair industry	4	8

ID	Title	Level	Credit
7014	Analyse cooling system corrosion prevention and vehicle and machine cooling system requirements	3	8
7015	Recore and repair bolt-on type industrial and heavy commercial and machine cooling 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
230	Repair and manufacture automotive components by oxy-acetylene gas welding	2	3
924	Clean automotive components and maintain cleaning equipment	2	1

Engineering and Technology > Motor Industry > Engine Repairs

ID	Title	Level	Credit
878	Repair an engine cooling system	3	4

Engineering and Technology > Motor Industry > Vehicle Bodywork

ID	Title	Level	Credit
2629	Demonstrate knowledge of, and work in proximity to, motor vehicle air bag mechanisms	3	2
3856	Identify emergency procedures in the motor and related industries	2	2
5739	Maintain security in the workplace in the motor and related industries	2	2
5763	Identify and dispose of hazardous waste materials in the motor and related industries	3	3
5767	Demonstrate knowledge of current legislation in the motor body industry	3	2
16097	Identify, store and use hazardous materials in the motor and related industries	2	3
16098	Perform safe work practices in the motor industry	2	4

Transition Arrangements

Version 6

Version 6 was issued to extend the expiry date of this qualification.

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

Previous versions of the qualification

Version 5 was issued to indicate that this qualification is expiring.

This qualification, the National Certificate in Motor Industry (Brake Service Engineering) [Ref: 0096], National Certificate in Motor Industry (Automotive Servicing) [Ref: 0138], National Certificate in Motor Industry (Automotive Steering, Suspension, and Alignment) with an optional strand in Heavy Commercial Vehicles [Ref: 0246], National Certificate in Motor Industry (Exhaust Servicing) [Ref: 0372], and the National Certificate in Motor Industry (Tyre Servicing) with optional strands in Light and Heavy Commercial Vehicle Tyres, Agricultural Equipment Tyres, Off-The-Road Equipment Tyres, Industrial Tyres, and Steering and Suspension [Ref: 0373] have been replaced by the National Certificate in Motor Industry (Vehicle Servicing) with strands in Brake and Clutch, Exhaust Systems, Radiator Repair, Steering and Suspension, Tyres, Underbody and General Service, and Vehicle Security, and with an optional strand in Heavy Vehicle Steering and Suspension [Ref: 1420].

Version 4 was issued in order to update reviewed standards, make a minor change in the purpose statement and extend the period of registration to December 2006, to allow time to implement a full review of the qualification.

Changes to structure and content

- Reviewed unit standards updated.
- Reference to MITO registration deleted from purpose statement.

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 – see table below.

Expiring Standards	Replacement Standards
3845 and 3855	16097 and 16098

Version 3 was updated to take account of the review of *Motor Industry* standards. Expiring standards were replaced (see above table) and prerequisite standards were added. These changes resulted in the credit total increasing from 173 to 185.

Version 2 was updated to take account of the review of *Motor Industry* standards. There was no impact to the qualification requirements.

NZQF National Qualification Registration Information

Process	Version	Date	Last Date for Assessment
Registration	1	July 1996	December 2012
Revision	2	August 1997	December 2012
Revision	3	February 2001	December 2012
Revision	4	December 2003	December 2012
Review	5	August 2008	December 2012
Revision	6	November 2010	December 2016

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

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	0305	Engineering and Related Technologies > Automotive Engineering and Technology

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. Accredited providers and Industry Training Organisations assessing against standards must engage with the moderation system that applies to those standards. Accreditation requirements and the moderation system are outlined in the associated Accreditation and Moderation Action Plan (AMAP) for each standard.

Prerequisite Diagram

