

FIELD ENGINEERING AND TECHNOLOGY**Review of *Motor Industry* unit standards**

Subfield	Domain	Id
Motor Industry	Coachbuilding	11695-11721, 19633, 19635, 19636, 19638, 19639
	Motor Vehicle Assembly	10731, 10752, 10756
	Vehicle Bodywork	911, 947, 2345, 3860, 3869, 3876, 5434, 5442, 5465, 5467, 5763, 19637

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

Date new versions published

February 2008

Planned review date

December 2012

Summary of review and consultation process

This review is part of a major review of the Motor Industry and Outdoor Fabric Product qualifications (QReview) being conducted by MITO. The QReview Steering Group endorsed these standards after major consultation was carried out covering a wide range of stakeholders through focus group meetings and followed by industry wide consultation. These standards will form part of the new qualifications for Vehicle Servicing, Automotive Electrical and Mechanical, Automotive Heavy Engineering, Automotive Specialist Engineering, and Automotive Body.

Main changes resulting from the review

- Credits decreased from 10 to 4 in standard 5465, from 4 to 2 in standard 19636, and from 10 to 3 in standard 19637 to more accurately reflect the learning requirements.
- The level increased from 3 to 4 in standards 11703, 11704, 11706, and 11711.
- Standard 3876 was replaced by two new standards, 24081 and 24082, that separate theory knowledge from practical outcomes, and the level and credits were increased to reflect the outcomes covered.
- Standard 5763 was replaced by standard 24083, which was placed in the Automotive Workshop Engineering domain, as there were significant changes to the content.
- Standards 11720 and 19638 were reclassified to the Vehicle Bodywork domain, and standard 19636 was reclassified to the Engines domain, to more accurately reflect the content and usage of the standards.
- Changes were made throughout the standards to titles, special notes, elements, performance criteria, and range statements to update terminology and reflect changes in technology and legislative requirements.
- Standards 911, 3860, 3869, 5442, and 19639 were designated expiring and would not be replaced as they no longer meet industry needs.
- Standards 10731, 10752, and 10756, expired when the motor vehicle assembly industry closed in New Zealand, were reinstated for use within the coachbuilding sector.
- Four new standards, 24076, 24077, 24084, and 24085, were developed to reflect new technology and fill gaps in the existing framework of standards.

Unit standards categorised as category C or D expire at the end of December 2011.

Impact on existing provider accreditations

Current Accreditation for			Accreditation extended to		
Nature of accreditation	Classification or Id	Level	Nature of accreditation	Classification or Id	Level
Subfield	Motor Industry	2	Standards	24081, 24082	3
		3	Standards	11703, 11704, 11706, 11711, 24083	4
Domain	Vehicle Bodywork	2	Standards	24081, 24082	3
		3	Standard	24083	4
Standard	3876	2	Standards	24081, 24082	3
Standard	5763	3	Standard	24083	4

Impact on Accreditation and Moderation Action Plan (AMAP)

AMAP 0014 was updated to reflect the changes made to the standards.

Impact on existing qualifications

Qualifications that contain the reviewed standards or classifications are tabled below.

Affected	The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard
Not materially affected	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following MITO qualifications are impacted by the outcome of this review, with the items that generated the affected status in **bold**. These qualifications will be updated as part of the current QReview.

Qualification title	Standard in the qualification
National Certificate in Manufacturing (Leatherwork) with strands in Saddlemaking, and Leather Goods Manufacture [Ref: 0471]	3869
National Certificate in Motor Industry (Automotive Dismantling and Recycling) [Ref: 0170]	947, 5465, 5763
National Certificate in Motor Industry (Automotive Radiator Repair) [Ref: 0188]	5763
National Certificate in Motor Industry (Automotive Refinishing) [Ref: 0178]	3860, 5763
National Certificate in Motor Industry (Coachbuilding) with strands in Passenger Service Vehicles, Commercial Vehicles, and Motor Homes and Caravans [Ref: 0413]	947, 5763 , 11695, 11699, 11700-11702, 11703, 11704, 11706 , 11707-11710, 11711, 11712, 11714-11716, 11718, 11719, 11721, 19633, 19635, 19636, 19637
National Certificate in Motor Industry (Panelbeating) [Ref: 0179]	3860, 5763

Review Categories and changes to classification, title, level and credits

All changes are in **bold**.

Key to review category	
A	Dates changed, but no other changes are made - the new version of the standard carries the same Id and a new version number
B	Changes made, but the overall outcome remains the same - the new version of the standard carries the same Id and a new version number
C	Major changes that necessitate the registration of a replacement standard with a new Id
D	Standard will expire and not be replaced

Subfield Motor Industry
Domain Automotive Administration

Id	Title	Level	Credit	Review Category
24076	Determine vehicle production schedules and order materials in the motor industry	4	4	New
24077	Demonstrate knowledge of business responsibilities towards customers within the automotive industry	3	1	New

Domain Coachbuilding

Id	Domain	Title	Level	Credit	Review Category
11695	Coachbuilding	Make and assemble a vehicle chassis drop section Make and assemble a vehicle chassis drop section in the coachbuilding industry	4	5	B
11696	Coachbuilding	Lower and raise a chassis on a passenger service vehicle Lower and raise a chassis on vehicles in the coachbuilding industry	5	10	B
11697	Coachbuilding	Lengthen and shorten chassis on a commercial vehicle Lengthen and shorten chassis on a vehicle in the coachbuilding industry	4	6	B
11698	Coachbuilding	Measure, mark out, make, and assemble body framing in the coachbuilding industry	3	7	B
11699	Coachbuilding	Measure, mark out, and make and assemble sub-frame for vehicle in the coachbuilding industry Measure, mark out, and make and assemble sub-frame for a vehicle in the coachbuilding industry	3	5	B

Id	Domain	Title	Level	Credit	Review Category
11700	Coachbuilding	Prepare, make, and fit floor to fit to sub-frame on a vehicle in the coachbuilding industry Make and fit floor to a vehicle sub-frame in the coachbuilding industry	3	5	B
11701	Coachbuilding	Prepare, make, and fit exterior panels to framing in the coachbuilding industry Make and fit exterior panels to framing in the coachbuilding industry	3	6	B
11702	Coachbuilding	Make and fit vehicle doors in the coachbuilding industry Make and fit a vehicle door in the coachbuilding industry	4	7	B
11703	Coachbuilding	Make and fit vehicle steps in the coachbuilding industry Make and fit vehicle steps in the coachbuilding industry	3 4	4	B
11704	Coachbuilding	Prepare, make, and fit a flat deck body and headboard on a vehicle in the coachbuilding industry Make and fit a flat deck and headboard on a vehicle in the coachbuilding industry	3 4	6	B
11705	Coachbuilding	Identify insulation and lining materials and fit to a vehicle in the coachbuilding industry	4	4	B
11706	Coachbuilding	Prepare, fabricate, and fit a roof structure and panelling on a motor vehicle in the coachbuilding industry Make and fit a roof frame and panels to a vehicle in the coachbuilding industry	3 4	6	B
11707	Coachbuilding	Make and fit a wheel arch to a motor vehicle in the coachbuilding industry Make and fit a wheel arch to a vehicle in the coachbuilding industry	3	4	B
11708	Coachbuilding	Fit curtain rails and sides to a vehicle body Fit curtainsides, rails, and associated hardware to a vehicle body in the coachbuilding industry	3	3	B

Id	Domain	Title	Level	Credit	Review Category
11709	Coachbuilding	Measure, mark out, and fit a range of exterior body parts to a vehicle body in the coachbuilding industry Fit a range of exterior body parts in the coachbuilding industry	3	3	B
11710	Coachbuilding	Identify vehicle body construction methods in the coachbuilding industry Demonstrate knowledge of vehicle body frame construction and body panelling in the coachbuilding industry	3	3	B
11711	Coachbuilding	Interpret vehicle drawings and job specifications, and produce a sketch with relevant measurements Interpret vehicle drawings and job specifications for coachbuilding, and produce a sketch with relevant measurements	3 4	3	B
11712	Coachbuilding	Set up and fit tail lift to a vehicle Fit a tail lift to a vehicle in the coachbuilding industry	4	4	B
11713	Coachbuilding	Fit additional axle to a vehicle chassis Fit an additional axle to a vehicle chassis in the coachbuilding industry	5	6	B
11714	Coachbuilding	Demonstrate knowledge of, and make and modify vehicle seat frames Make and modify vehicle seat frames in the coachbuilding industry	4	5	B
11715	Coachbuilding	Fit interior fittings in a passenger service or motor home type vehicle Fit out the interior of a passenger service or motor home type vehicle	4	8	B
11716	Coachbuilding	Prepare and fit interior fittings in a vehicle in the coachbuilding industry Fit interior fittings in a vehicle in the coachbuilding industry	3	4	B

Id	Domain	Title	Level	Credit	Review Category
11717	Coachbuilding	Perform calculations in the coachbuilding industry	2	3	B
11718	Coachbuilding	Prepare for and remove the rear of a vehicle cab for modification in the coachbuilding industry Remove the rear of a vehicle cab for modification in the coachbuilding industry	3	3	B
11719	Coachbuilding	Make and fit a draw beam to a commercial vehicle Make and fit a draw beam to a vehicle in the coachbuilding industry	4	5	B
11720	Coachbuilding Vehicle Bodywork	Estimate a vehicle weight from specifications in the coachbuilding industry Evaluate vehicle weight requirements, and calculate a vehicle weight from specifications	5	4	B
11721	Coachbuilding	Prepare for and fit a hoist to a commercial vehicle Fit a hoist to a vehicle in the coachbuilding industry	4	5	B
19633	Coachbuilding	Install vehicle body interior components Remove and refit or replace existing interior components from and to a vehicle in the coachbuilding industry	3	10	B
19635	Coachbuilding	Identify and maintain equipment used for vehicle body manufacturing operations Identify and maintain equipment used for coachbuilding operations	2	3	B
19636	Coachbuilding Engines	Remove and install vehicle engine exterior components	3	4 2	B
19638	Coachbuilding Vehicle Bodywork	Assemble vehicle body steel components by bonding Prepare and assemble vehicle body steel components by bonding	4	6	B
19639	Coachbuilding	Describe trim and flooring adhesives used in the vehicle body manufacturing industry	4	6	D
17008*	<i>Flooring</i>	<i>Demonstrate knowledge of the characteristics of adhesives used in the flooring industry</i>	4	12	

* This unit standard is a recommended alternative to expiring unit standard 19639.

Domain Motor Vehicle Assembly

Domain **Coachbuilding**

Id	Title	Level	Credit	Review Category
10731	Carry out assembly of body components in the motor vehicle assembly industry Carry out assembly of body components on a vehicle assembly line in the coachbuilding industry	3	10	Reinstated
10752	Identify procedures and carry out final quality check on a vehicle in the motor assembly industry Carry out final quality checks on a vehicle in the coachbuilding industry	3 4	6	Reinstated
10756	Assemble parts on a commercial vehicle chassis Assemble parts on a vehicle chassis in the coachbuilding industry	3	10	Reinstated

Domain Vehicle Bodywork

Id	Domain	Title	Level	Credit	Review Category
911	Vehicle Bodywork	Prepare and install a sunroof to a vehicle	3	4	D
947	Vehicle Bodywork	Identify vehicle bodywork construction methods Demonstrate knowledge of vehicle bodywork construction materials and methods	3	8	B
2345	Vehicle Bodywork	Diagnose faults in heavy vehicle and equipment chassis	4	3	B
3860	Vehicle Bodywork	Plan the method of carrying out a job in the motor and related industries	1	2	D
3869	Vehicle Bodywork	Start work in a new workplace in the motor and related industries	1	2	D
3876	Vehicle Bodywork	Fabricate a new panel in the motor body industry	2	5	C
24081		Prepare and fabricate a new motor body panel in the motor body industry	3	6	
24082		Demonstrate knowledge of fabricating a new motor body panel in the motor body industry	3	2	
5434	Vehicle Bodywork	Dismantle and store vehicle body components	3	10	B
5442	Vehicle Bodywork	Install and repair all terrain vehicle (ATV) safety frames and auxiliary systems	4	4	D
5465	Vehicle Bodywork	Dismantle, clean, and store vehicle mechanical, electrical, and electronic components	3	10 4	B

Id	Domain	Title	Level	Credit	Review Category
5467	Vehicle Bodywork	Remove and replace car and/or light commercial vehicle bolt-on mechanical components Remove and replace light vehicle bolt-on mechanical components	3	8	B
5763	Vehicle Bodywork	Identify and dispose of hazardous waste materials in the motor and related industries	3	3	C
24083	Automotive Workshop Engineering	Store and arrange for the disposal of hazardous automotive waste materials in the motor and related industries	4	3	
19637	Vehicle Bodywork	Remove, repair, and replace perforated corroded body panels Remove and repair perforated non-structural body panel corrosion damage	3	10 3	B
24084	Vehicle Bodywork	Demonstrate knowledge of automotive foams	3	2	New
24085	Vehicle Bodywork	Demonstrate knowledge of automotive glass	3	2	New