

Field Engineering and Technology**Review and rollover of *Motor Industry* unit standards**

Subfield	Domain	ID
Motor Industry	Automotive Administration	23743
	Automotive Electrical and Electronics	975, 24114
	Automotive Heating, Ventilation, and Air Conditioning	906, 24450
	Automotive Transmission Systems	2332, 24336
	Automotive Workshop Engineering	15433
	Engines	24270
	Motor Industry - Introductory Skills	21857
	Vehicle Bodywork	21696
	Vehicle Steering and Suspension	24439

MITO New Zealand Incorporated (MITO) has completed the review of the unit standards listed above. The unit standard in **bold** was been rolled over only.

Date new versions published

March 2018

Planned review date

December 2022

Summary

MITO has reviewed the unit standards listed above and developed new unit standards at the request of industry.

The above review has resulted in fit-for-purpose assessment content being made available to industry that reflects current legislation and industry practice.

MITO's automotive industry working group endorsed the unit standard review. Representation in the working group included subject matter experts, industry representatives, provider representatives and MITO representatives. The unit standards were circulated in the working group's greater networks and all feedback was actioned where appropriate.

Main changes

- Standard 2332 was reviewed and outcomes and performance criteria were rearranged to ensure its achievability.
- Standards 15433, 21857, 24114 and 24439 were reviewed and outcomes and performance criteria changed to ensure currency with industry knowledge and practice.
- Standard 21696 was reviewed and updated to reflect changes to guidance information.

- Standard 23743 was reviewed and guidance information and range statements changed to ensure currency with legislation.
- Standard 24336 was rolled over to extend the last date for assessment from 31 December 2018 to 31 December 2019.
- Four unit standards were reviewed and replaced with four new unit standards.
- Two new unit standards were developed.

Category C unit standards will expire at the end of December 2020

The last date for assessment of superseded versions of Category B unit standards is December 2020

Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Subfield	Motor Industry	1	Standard	21857	2
Standard	906	4	Standard	31124	4
Standard	975	4	Standard	31126	4
Standard	24270	4	Standard	31125	4

Detailed list of unit standards – 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 the same 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

Reviewed Standards

Engineering and Technology > Motor Industry > Automotive Administration

ID	Title	Level	Credit	Review Category
23743	Demonstrate knowledge of general legislation and regulations in the motor industry	3	2	B

Engineering and Technology > Motor Industry > Automotive Electrical and Electronics

ID	Title	Level	Credit	Review Category
975	Design a wiring harness for a particular automotive application	4	4	C
31126	Manufacture and install an automotive wiring harness	4	10	
24114	Test for and rectify faults in automotive instruments and gauges Diagnose and rectify faults in automotive gauges, instruments or instrument clusters	4	4	B

ID	Title	Level	Credit	Review Category
31128	Demonstrate knowledge of automotive wiring harness design and manufacture	3	4	New

Engineering and Technology > Motor Industry > Automotive Heating, Ventilation, and Air Conditioning

ID	Title	Level	Credit	Review Category
906	Test for and rectify vehicle climate control system faults	4	4	C
31124	Diagnose and repair faults in an automotive climate control system	4	6	
24450	Demonstrate knowledge of vehicle climate control systems, and locating and rectifying faults	4	4	C
31127	Demonstrate knowledge of an automotive climate control system	3	3	

Engineering and Technology > Motor Industry > Automotive Transmission Systems

ID	Title	Level	Credit	Review Category
2332	Diagnose and rectify differential assembly faults on heavy vehicles or equipment	4	6	B

Engineering and Technology > Motor Industry > Automotive Workshop Engineering

ID	Title	Level	Credit	Review Category
15433	Inspect and repair ride-on battery powered equipment	4	8	B
	Test and repair a battery powered machine		5	

Engineering and Technology > Motor Industry > Engines

ID	Title	Level	Credit	Review Category
24270	Diagnose and rectify faults in vehicle or machine engine cooling systems	4	5	C
31125	Diagnose and repair vehicle or machine cooling system faults	4	6	

Engineering and Technology > Motor Industry > Motor Industry - Introductory Skills

ID	Title	Level	Credit	Review Category
21857	Identify the occupational areas and structure of the New Zealand Motor Industry	1 2	2	B

Engineering and Technology > Motor Industry > Vehicle Bodywork

ID	Title	Level	Credit	Review Category
21696	Apply finish coats of paint to a complete panel in the motor industry	2	2	B

Engineering and Technology > Motor Industry > Vehicle Steering and Suspension

ID	Title	Level	Credit	Review Category
24439	Diagnose and rectify faults in tractor or machine wheel steering systems Diagnose and rectify faults in tractor or machine steering systems	4	3	B

Rolled over standard

Engineering and Technology > Motor Industry > Automotive Transmission Systems

ID	Title	Level	Credit	Previous expiry date	New expiry date
24336	Demonstrate knowledge of light vehicle automatic transmissions and their servicing requirements	3	2	31/02/2018	31/12/2019