

Field Engineering and Technology

Review of *Motor Industry* unit standards

Subfield	Domain	ID
Motor Industry	Automotive Administration	15366, 21080, 21673
	Automotive Electrical and Electronics	5742, 15374, 24093, 24105, 24125
	Automotive Fuel Systems and Exhaust	11733, 29372
	Automotive Preventive Maintenance	229
	Automotive Workshop Engineering	21671, 21684, 21700, 21718, 23992, 24393
	Engines	244, 19636, 21687, 21688
	Motor Industry - Introductory Skills	3856, 29579

Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council has completed the review of the unit standards listed above.

Date new versions published

March 2022

Planned review date

December 2026

Summary

The above unit standard review process was originally initiated by MITO New Zealand Incorporated in 2020. The review ensured the unit standards are fit-for-purpose for the automotive sectors.

MITO conducted industry consultation in November/December 2020. Consultation feedback was actioned where appropriate.

Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council has now completed the review in 2021.

Main changes

- Guidance information, performance criteria and range statements have been updated to reflect correct industry terminology, legislation and to correct errors in the unit standards.
- Titles of standards 229, 3856, 5742, 21080, 21671, 21673, 21684, 21700, 21718, 23992, 24125, and 24393 were changed to align to unit standard outcomes.

The last date for assessment of superseded versions of Category B unit standards is December 2023

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

Engineering and Technology > Motor Industry > Automotive Administration

ID	Title	Level	Credit	Review Category
15366	Select automotive workshop products and services, and develop systems and procedures for their use	5	4	B
21080	Provide technical guidance in the motor and related industries Provide technical guidance and assist development of others in the automotive and related industries	5	4	B
21673	Demonstrate knowledge of maintaining stock security in the motor and related industries Demonstrate knowledge of maintaining stock security in the automotive and related industries	4	2	B

Engineering and Technology > Motor Industry > Automotive Electrical and Electronics

ID	Title	Level	Credit	Review Category
5742	Protect electronics when servicing or repairing a vehicle or machine in the motor industry Protect electronics when servicing or repairing a vehicle or machine in the automotive industry	3	2	B
15374	Diagnose and rectify faults in starting and charging systems, and overhaul starter motors on outdoor powered equipment	4	4	B
24093	Rectify simple vehicle lighting faults, and adjust vehicle lamps	3	3	B
24105	Demonstrate knowledge of wiring and wiring diagrams used in automotive circuits	3	2	B
24125	Demonstrate knowledge of testing heavy vehicle or machine electrical starting and charging systems Describe testing heavy vehicle or machine electrical starting and charging systems	4	2	B

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

ID	Title	Level	Credit	Review Category
11733	Demonstrate knowledge of vehicle exhaust systems	3	4	B
29372	Perform minor servicing tasks on a petrol fuel system	2	2	B

Engineering and Technology > Motor Industry > Automotive Preventive Maintenance

ID	Title	Level	Credit	Review Category
229	Identify the general locations and functions of motor vehicle systems and main components Identify the general locations and functions of vehicle systems and main components	2	4	B

Engineering and Technology > Motor Industry > Automotive Workshop Engineering

ID	Title	Level	Credit	Review Category
21671	Carry out general engineering tasks in the motor industry Carry out general engineering tasks in the automotive industry	2	4	B
21684	Use a MIG welding plant in the motor industry Use a MIG welding plant in the automotive industry	3	3	B
21700	Store and use hazardous materials in the motor and related industries Store and use hazardous materials in the automotive and related industries	2	2	B
21718	Demonstrate knowledge of hazardous materials used in the motor industry Demonstrate knowledge of hazardous materials used in the automotive industry	2	2	B
23992	Use a gas metal arc welding (GMAW) plant in the motor and related industries Use a gas metal arc welding plant in the automotive and related industries	3	3	B
24393	Heat metal automotive components to aid disassembly and assembly in the motor industry Heat metal automotive components to aid disassembly and assembly in the automotive industry	2	2	B

Engineering and Technology > Motor Industry > Engines

ID	Title	Level	Credit	Review Category
244	Disassemble and reassemble a four stroke multi-cylinder engine to a running state	2	6	B
19636	Remove and install vehicle engine exterior components	3	2	B
21687	Demonstrate knowledge of basic tuning on a four stroke petrol engine	2	3	B
21688	Demonstrate knowledge of disassembling and reassembling a four stroke multi-cylinder engine	2	3	B

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

ID	Title	Level	Credit	Review Category
3856	Identify emergency procedures in the motor and related industries Demonstrate knowledge of carrying out emergency procedures in the automotive and related industries	3	2	B
29579	Demonstrate knowledge of good work habits and safe work practices in the automotive industry	2	4	B