

**Field      Engineering and Technology**

**Review of *Motor Industry* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Motor Industry	Automotive Administration	934, 946, 968, 977, 15367, 15368, 21078, 21081, 21082, 21672, 21674, 21681
	Automotive Electrical and Electronics	5458, 24143, 24151
	Automotive Fuel Systems and Exhaust	19303
	Automotive Sales	380, 383, 388, 395
	Automotive Transmission Systems	15415, 24323
	Automotive Workshop Engineering	949
	Engines	11726, 15439, 24276
	Tractor and Machine Systems	5438
	Vehicle Steering and Suspension	15483

MITO New Zealand Incorporated has completed the review of the unit standards listed above.

**Date new versions published**

**August 2018**

**Planned review date**

**December 2023**

**Summary**

These unit standards were overdue for review. The purpose of this review was to update legislation, definitions and ensure the unit standards reflected industry practice. It was determined that these unit standards remained fit for purpose and no issues with assessment have been identified since the last review.

**Main changes**

- Guidance information was updated to reflect current legislation.
- Unit standards were transferred onto the new template.
- Unit standard 380 was reclassified.
- Recommended entry information was updated to reflect current unit standards.
- A last date for assessment of superseded versions was specified for Category B reviewed standards.
- Unit standards 21081, 21082 and 21681 were designated expiring without replacement due to a lack of use.

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**The last date for assessment of superseded versions of Category B unit standards is December 2020**

**Detailed list of unit standards – classification, title, level, and credits**

All changes are in **bold**.

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

Engineering and Technology > Motor Industry > Automotive Administration

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
934	Cost a job for the supply of a product, repair, or service in the motor and related industries <b>Cost a job for the supply of a product, repair or service in the automotive industry</b>	3	3	B
946	Book in and receive work for an automotive or related business <b>Book in and receive work for an automotive business</b>	3	4	B
968	Estimate or quote the cost of a repair or service in the motor and related industries <b>Estimate or quote the cost of a repair or service in the automotive industry</b>	4	4	B
977	Demonstrate knowledge of, and recommend, automotive component corrosion prevention requirements <b>Demonstrate knowledge of, and recommend, automotive component corrosion prevention methods</b>	5	7	B
15367	Demonstrate knowledge of, and apply, automotive workplace efficiency and productivity concepts	5	4	B
15368	Pick up and deliver a customer's vehicle, machine, and/or equipment <b>Pick up and deliver a customer's vehicle, machine and/or equipment</b>	1	1	B
21078	Demonstrate knowledge of quality control standards in the motor and related industries <b>Demonstrate knowledge of quality control standards in the automotive industry</b>	3	2	B
21081	Adapt work processes to new technology in the motor and related industries	5	4	D
21082	Service and repair complex automotive systems	5	4	D
21672	Demonstrate knowledge of new and emerging technology in the motor industry	2	5	B
21674	Demonstrate knowledge of terminology used in the motor industry	2	2	B
21681	Demonstrate knowledge of taking care of stock in the motor and related industries	2	2	D

Engineering and Technology > Motor Industry > Automotive Electrical and Electronics

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
5458	Demonstrate knowledge of heavy duty starter motor operation	4	4	B

ID	Title	Level	Credit	Review Category
24143	Demonstrate knowledge of starting and charging systems and fault diagnosis on motorcycles or all-terrain vehicles (ATVs)	3	3	B
24151	Demonstrate knowledge of automotive oscilloscopes	4	2	B

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

ID	Title	Level	Credit	Review Category
19303	Demonstrate knowledge of unit type diesel fuel injectors	3	3	B

Engineering and Technology > Motor Industry > Automotive Sales

Engineering and Technology > Motor Industry > **Automotive Administration**

ID	Title	Level	Credit	Review Category
380	Carry out an appraisal of a vehicle, machine or product in the motor or related industries <b>Carry out appraisal of a vehicle or machine in the automotive industry</b>	4	4	B

Engineering and Technology > Motor Industry > Automotive Sales

ID	Title	Level	Credit	Review Category
383	Demonstrate knowledge of purchasing and storing automotive parts and accessories	3	3	B
388	Identify the market for automotive products and purchase the stock <b>Identify the market for automotive products and purchase stock</b>	5	6	B
395	Carry out prospecting for an automotive or related business <b>Carry out prospecting for an automotive business</b>	5	4	B

Engineering and Technology > Motor Industry > Automotive Transmission Systems

ID	Title	Level	Credit	Review Category
15415	Demonstrate knowledge of manual drive systems used on outdoor powered equipment	3	4	B
24323	Demonstrate knowledge of tractor and agricultural machine final drive assemblies	4	4	B

Engineering and Technology > Motor Industry > Automotive Workshop Engineering

ID	Title	Level	Credit	Review Category
949	Demonstrate knowledge of lawnmower types and applications, and their mechanical operation <b>Demonstrate knowledge of lawnmower types and applications, and lawnmower operation</b>	2	3	B

Engineering and Technology > Motor Industry > Engines

ID	Title	Level	Credit	Review Category
11726	Demonstrate knowledge of engine design factors and machining practices	4	20	B

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
15439	Demonstrate knowledge of the operation and servicing of open and closed cooling systems on trailer boats	3	4	B
24276	Demonstrate knowledge of manual starting systems used on small engines	2	1	B

Engineering and Technology > Motor Industry > Tractor and Machine Systems

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
5438	Demonstrate knowledge of the functions and general locations of tractor, agricultural machine, and equipment systems	2	4	B

Engineering and Technology > Motor Industry > Vehicle Steering and Suspension

<b>ID</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
15483	Demonstrate knowledge of machine track gear and undercarriage systems and their repair procedures	4	5	B