

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

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Motor Industry	Automotive Administration	5784, 11744, 15371, 21083-21088, 22787, 22788, 23796-23802, 24076
	Automotive Electrical and Electronics	978, 21090, 21091, 21094, 23803, 23804, 24107, 24108, 24115, 24135, 24139, 24140, 24144
	Automotive Heating, Ventilation, and Air Conditioning	3397, 24449, 24451, 24452
	Automotive Hydraulics	21095
	Automotive Pneumatics	990, 21096
	Automotive Preventive Maintenance	381, 24339, 24344, 24345, 24347, 24348, 24377
	Automotive Radiator Repair	6999, 7002, 7004, 7006, 7007, 7009, 7015, 24453-24456

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

**Summary**

These unit standards were due for review and it was identified that these unit standards had had little or no usage over the past five years, and were, therefore, considered to no longer be required.

All organisations with consent to assess against these standards were advised of the intended expiry and no objections to the proposed expiry were received. Feedback was also requested through a consultation period on the MITO website during March 2018, and no feedback objecting to the proposed expiry was received from the consultation.

**Main changes**

The unit standards were set to expire without replacement.

**These Category D unit standards will expire at the end of December 2020****Detailed list of unit standards – classification, title, level, and credits**

<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 the same 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>
5784	Describe factors in determining, and draw a workplace layout in the motor body industry	5	4	D

ID	Title	Level	Credit	Review Category
11744	Allocate work in an automotive or related industry service department or business	5	4	D
15371	Manage time and personal stress in an automotive or related industry department	2	3	D
21083	Demonstrate knowledge of, and carry out, automotive failure analysis on systems and components	5	6	D
21084	Assess vehicle panel and/or paint damage, and prepare an estimate and/or quotation	5	4	D
21085	Interpret vehicle body and/or refinishing specifications using computer and digital imaging systems	5	4	D
21086	Analyse and interpret legal requirements relating to vehicle collision repair	5	6	D
21087	Demonstrate knowledge of vehicle insurance requirements, law, and liabilities	5	4	D
21088	Identify environmental impacts and requirements for end-of-life vehicles and/or components	5	4	D
22787	Analyse and recommend storage and supporting systems for automotive parts and accessories	5	6	D
22788	Analyse factors in determining a workshop layout, and draw a layout relating to the motor industry	5	6	D
23796	Meet employment requirements and work in a motorsport environment	2	4	D
23797	Comply with motorsport regulations and motorsport event safety requirements	3	3	D
23798	Collect and record information from a competition race vehicle's electronic data analysis system	3	2	D
23799	Carry out pit lane, pit paddock, and/or service park operations at a motorsport event	3	4	D
23800	Analyse information from a competition race vehicle's electronic data analysis system	5	4	D
23801	Determine and comply with competition race vehicle and support equipment transportation requirements	3	2	D
23802	Prepare to transport competition race vehicles and support equipment to and from a motorsport event	2	2	D
24076	Determine vehicle production schedules and order materials in the motor industry	4	4	D

Engineering and Technology > Motor Industry > Automotive Electrical and Electronics

ID	Title	Level	Credit	Review Category
978	Specify the battery and charging system requirements for a passenger coach or special purpose vehicle	5	4	D
21090	Demonstrate knowledge of automotive multiplex and databus applications, and diagnose faults	5	6	D
21091	Demonstrate knowledge of in-vehicle information and control systems	5	6	D
21094	Describe removal and installation of body components in terms of electronic integrity of vehicles	5	2	D

ID	Title	Level	Credit	Review Category
23803	Demonstrate knowledge of competition race vehicle electronic data analysis systems	3	1	D
23804	Demonstrate knowledge of communication systems used in competition race vehicles and teams	3	3	D
24107	Demonstrate knowledge of an automotive charging system that uses a direct current (dc) generator	3	2	D
24108	Test for and rectify faults in an automotive direct current (dc) type generator charging system	3	4	D
24115	Diagnose and rectify faults in an engine flywheel ignition system	3	3	D
24135	Test for and rectify faults in electronically controlled systems used on motorcycles	4	3	D
24139	Install an aftermarket vehicle or machine body control security system	4	4	D
24140	Demonstrate knowledge of the principles of motorcycle electronic control system operation and repair	4	6	D
24144	Demonstrate knowledge of testing for and rectifying faults on a motorcycle electronic ignition system	4	2	D

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

ID	Title	Level	Credit	Review Category
3397	Convert an automotive air conditioning system from R-12 to R-134a	3	2	D
24449	Prepare to test, and test an automotive air conditioning system for leaks	3	2	D
24451	Inspect and service automotive air conditioning equipment	3	2	D
24452	Service an automotive air conditioning compressor	4	3	D

Engineering and Technology > Motor Industry > Automotive Hydraulics

ID	Title	Level	Credit	Review Category
21095	Demonstrate knowledge of, and interpret, complex automotive hydraulic diagrams and circuitry	5	6	D

Engineering and Technology > Motor Industry > Automotive Pneumatics

ID	Title	Level	Credit	Review Category
990	Test and repair an air operated engine starting system	4	3	D
21096	Demonstrate knowledge of, and interpret, complex automotive pneumatic diagrams and circuitry	5	6	D

## Engineering and Technology &gt; Motor Industry &gt; Automotive Preventive Maintenance

ID	Title	Level	Credit	Review Category
381	Store a vehicle or machine	3	3	D
24339	Carry out general service checks on all-terrain vehicles (ATVs)	3	2	D
24344	Carry out general service checks on chainsaws	3	4	D
24345	Carry out general service checks on equipment used in the outdoor power equipment industry	3	8	D
24347	Analyse automotive preventive maintenance programmes	5	2	D
24348	Implement a schedule for an automotive preventive maintenance programme	5	2	D
24377	Select and apply lubricants, adhesives, and sealants in a marine environment	2	2	D

## Engineering and Technology &gt; Motor Industry &gt; Automotive Radiator Repair

ID	Title	Level	Credit	Review Category
6999	Repair a damaged metal vehicle or machine fuel tank	4	4	D
7002	Recore a brass tank vehicle or machine radiator	3	7	D
7004	Test and rectify faults in an oil cooler in the radiator repair industry	4	5	D
7006	Plan and prepare to modify, and modify a vehicle or machine radiator	4	10	D
7007	Plan and prepare to custom build, and custom build a vehicle or machine radiator	4	10	D
7009	Test for, and rectify faults and refit a vehicle or machine heater assembly	3	4	D
7015	Test, recore and rectify faults in bolt-on industrial and heavy vehicle and machine cooling equipment	3	8	D
24453	Inspect, test and rectify faults in a vehicle or machine radiator	3	6	D
24454	Recore a plastic tank vehicle or machine radiator	3	4	D
24455	Prepare to clean out, and clean out a plastic tank vehicle or machine radiator assembly	3	4	D
24456	Prepare to clean out, and clean out a brass tank vehicle or machine radiator assembly	3	6	D