

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

Subfield	Domain	ID
Motor Industry	Automotive Refinishing	5729
	Automotive Sales	11743, 22792, 22793
	Automotive Transmission Systems	3380, 23808, 24309-24313, 24328, 24329, 24333, 24334
	Automotive Workshop Engineering	2344, 11722, 11724, 11737, 15432, 23809, 23810, 24376, 24387, 24390
	Collision Repair	5751, 23985
	Engines	2335, 11723, 15434, 23812, 24285, 24288-24293, 24295-24299, 24301
	Tyres	23813, 23814

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

Summary

These unit standards were due for review. 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 invited 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

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

Engineering and Technology > Motor Industry > Automotive Refinishing

ID	Title	Level	Credit	Review Category
5729	Paint vehicle panels in three layer pearl and two pack clearcoat	4	8	D

Engineering and Technology > Motor Industry > Automotive Sales

ID	Title	Level	Credit	Review Category
11743	Demonstrate knowledge of ethical behaviour for vehicle salespersons	4	4	D

ID	Title	Level	Credit	Review Category
22792	Dispense liquefied petroleum gas (LPG) to fill a portable cylinder	2	2	D
22793	Demonstrate knowledge of liquefied petroleum gas (LPG) for automotive and/or domestic use	2	2	D

Engineering and Technology> Motor Industry > Automotive Transmission Systems

ID	Title	Level	Credit	Review Category
3380	Overhaul light vehicle clutch cover assemblies and repair and/or replace associated components	3	2	D
23808	Demonstrate knowledge of transmission requirements for competition race vehicles	3	4	D
24309	Demonstrate knowledge of motorcycle clutches and transmissions	3	2	D
24310	Diagnose faults and overhaul a motorcycle transmission	4	6	D
24311	Rectify faults in a motorcycle clutch	3	2	D
24312	Demonstrate knowledge of clutches and transmissions used on all-terrain vehicles (ATVs)	3	2	D
24313	Diagnose faults and overhaul all-terrain vehicle (ATV) transmissions, sub-transmissions, and shaft drives	4	10	D
24328	Demonstrate knowledge of driveline components used on outdoor powered equipment	3	2	D
24329	Check and rectify driveline faults on outdoor powered equipment	3	3	D
24333	Diagnose and rectify faults in an all-terrain vehicle (ATV) clutch	4	4	D
24334	Diagnose and rectify faults on the electronic auto-shift on a heavy vehicle manual transmission	4	4	D

Engineering and Technology> Motor Industry > Automotive Workshop Engineering

ID	Title	Level	Credit	Review Category
2344	Diagnose and repair winches and pulley block assemblies on heavy machinery or equipment	4	2	D
11722	Inspect and repair driveshaft (propeller shaft) assemblies	4	15	D
11724	Inspect and balance automotive components	4	10	D
11737	Demonstrate knowledge of exhaust shop equipment	2	4	D
15432	Inspect and repair ground conditioning and turf equipment	4	15	D
23809	Demonstrate knowledge of non-destructive testing of automotive components	3	2	D
23810	Carry out a non-destructive test to determine serviceability of automotive components	3	2	D
24376	Demonstrate knowledge of hydraulic brake and clutch cylinder resleeving procedures	4	1	D
24387	Resleeve a brake or clutch hydraulic cylinder	4	4	D
24390	Inspect and repair walk behind rotary mowers, ride-on mowers, and lawn tractors	4	9	D

Engineering and Technology> Motor Industry > Collision Repair

ID	Title	Level	Credit	Review Category
5751	Repair minor vehicle panel damage without paint damage	3	2	D
23985	Remove, repair, and replace damaged motor vehicle metal bumpers	3	4	D

Engineering and Technology> Motor Industry > Engines

ID	Title	Level	Credit	Review Category
2335	Repower heavy vehicles or equipment	4	3	D
11723	Inspect and machine engine camshafts	4	15	D
15434	Diagnose and rectify inboard four stroke diesel engine faults on trailer boats	4	10	D
23812	Demonstrate knowledge of competition race vehicle engine performance modification requirements and practices	5	7	D
24285	Demonstrate knowledge of motorcycle engine cooling systems and testing motorcycle engine cooling systems	3	2	D
24288	Demonstrate knowledge of repowering heavy vehicles or equipment	4	1	D
24289	Diagnose and rectify faults in auxiliary engines on heavy vehicles or equipment	4	5	D
24290	Inspect and service auxiliary engines on heavy vehicles or equipment	3	3	D
24291	Demonstrate knowledge of inspecting and machining engine piston and connecting rod assemblies	3	6	D
24292	Demonstrate knowledge of motorcycle engine cylinder head faults, and their inspection and repair requirements	4	3	D
24293	Demonstrate knowledge of motorcycle engine crankshaft assembly faults and their inspection and repair requirements	4	1	D
24295	Demonstrate knowledge of small engine air cooling systems and their test and service procedures	3	2	D
24296	Test and rectify faults in a small engine air cooling system	3	3	D
24297	Demonstrate knowledge of engine gasket and sealant options	3	2	D
24298	Align bore and hone bearing tunnels	4	3	D
24299	Demonstrate knowledge of engine crankshaft and camshaft machining procedures	4	4	D
24301	Disassemble, inspect, and reassemble a multi-cylinder motorcycle engine	3	4	D

Engineering and Technology> Motor Industry > Tyres

ID	Title	Level	Credit	Review Category
23813	Demonstrate knowledge of competition tyres and their applications for motorsport events	3	4	D
23814	Select competition tyres for a specific motorsport event, and monitor tyre performance	4	2	D