

**Field      Engineering and Technology**

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

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Motor Industry	Automotive Trailers	23929-23934
	Automotive Transmission Systems	919, 920, 939, 2320, 2321, 2333, 2336, 8186, 15424, 24314-24318, 24320-24322, 24324, 24326, 24327, 24331, 24332, 24335, 24689, 24690

MITO New Zealand Incorporated (trading as MITO) has completed the review of the unit standards listed above.

**Date new versions published**

**May 2021**

**Planned review date**

**December 2025**

**Summary**

MITO reviewed and revised motor industry unit standards to ensure they are fit-for-purpose for the industry sectors.

MITO was supported by the motor industry's working groups including subject matter experts and MITO representatives. The standards were circulated to the working groups' networks, and a consultation period was held. Feedback received was actioned where appropriate.

**Main changes**

- Purpose statements, guidance information, references, outcomes, performance criteria, and range statements were amended to ensure they are accurate and fit for purpose, reflect the standard content and to ensure clarity for users.
- Unit standards with little or no use over the past five years were set to expire without replacement as they no longer reflect the learning and assessment needs of industry.
- Titles of unit standards 920, 939, 24326, 24327 were amended to enhance readability and better reflect the purpose.

**Category D unit standards will expire at the end of December 2022**

**The last date for assessment of superseded versions of Category B unit standards is December 2022**

**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 Trailers

ID	Title	Level	Credit	Review Category
23929	Repair light trailers in the motor and related industries	3	2	B
23930	Demonstrate knowledge of light trailer servicing requirements	3	2	B
23931	Demonstrate knowledge of heavy trailer systems	4	2	B
23932	Maintain and repair heavy trailers and semi-trailers	4	13	B
23933	Demonstrate knowledge of servicing requirements for boat trailer systems and controls	3	2	B
23934	Inspect, maintain, and repair a boat trailer	3	3	D

Engineering and Technology > Motor Industry > Automotive Transmission Systems

ID	Title	Level	Credit	Review Category
919	Demonstrate knowledge of light vehicle automatic transmission components and fault diagnosis procedures	4	8	B
920	Describe the construction and operation of manual and semi-automatic transmissions used on light vehicles <b>Demonstrate knowledge of light vehicle manual and semi-automatic transmission construction and operation</b>	3	4	B
939	Carry out diagnosis, servicing, and fault rectification in motorcycle or all-terrain vehicle (ATV) final drives <b>Carry out diagnosis, servicing, and fault rectification in motorcycle or ATV final drives</b>	3	5	B
2320	Diagnose and rectify heavy vehicle or equipment manual transmission faults	4	6	B
2321	Diagnose and rectify faults in heavy vehicle or equipment automatic or power shift transmissions	4	8	B
2333	Diagnose and rectify driveline faults on heavy vehicles or equipment	4	3	B
2336	Diagnose and rectify heavy vehicle or equipment transmission fluid coupling faults	3	3	D
8186	Dismantle and inspect, overhaul, and reassemble an automatic transmission or transaxle assembly from a light vehicle	4	8	B
15424	Diagnose and rectify faults in heavy vehicle or equipment hydraulic driveline retarders	4	3	D
24314	Diagnose faults in automatic transmissions on light vehicles	4	3	B
24315	Diagnose faults in final drive assemblies on light vehicles	4	2	B
24316	Prepare and overhaul a final drive assembly from a light vehicle	4	6	B
24317	Diagnose faults in manual transmissions on light vehicles	4	2	B
24318	Overhaul a manual transmission on a light vehicle	4	4	B
24320	Diagnose and rectify faults in hydraulic transmission drives on plant or machinery	4	5	B
24321	Demonstrate knowledge of belt and chain drive systems on plant and machinery	3	2	B
24322	Rectify belt and chain drive system faults on plant or machinery	4	3	B

ID	Title	Level	Credit	Review Category
24324	Diagnose and rectify faults in tractor or agricultural machine final drive assemblies	4	4	B
24326	Diagnose four-wheel drive (4WD) or all-wheel drive (AWD) system faults on light vehicles <b>Diagnose 4WD or AWD system faults on light vehicles</b>	4	2	B
24327	Rectify four-wheel drive (4WD) or all-wheel drive (AWD) system faults on light vehicles <b>Rectify 4WD or AWD system faults on light vehicles</b>	4	3	B
24331	Remove and replace heavy vehicle or equipment transmissions and clutches	3	3	B
24332	Diagnose and rectify oil leaks on transmission and driveline components on light vehicles	3	2	B
24335	Diagnose and rectify faults in forklift automatic transmissions	4	5	B
24689	Carry out routine maintenance on automotive automatic transmissions	3	4	B
24690	Remove and replace an automatic transmission from and in a light vehicle	3	2	B