

Field Engineering and Technology

Review of *Motor Industry* unit standards

Subfield	Domain	ID
Motor Industry	Automotive Transmission Systems	15416
	Automotive Workshop Engineering	949, 2328, 15425, 15427, 15429, 15430
	Engines	879, 24294

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

Date new versions published

August 2019

Planned review date

December 2024

Summary

MITO has reviewed the unit standards listed above and developed new unit standards at the request of industry. The unit standards were reviewed and developed to align with the suite of automotive qualifications at Level 3 and Level 4 on the New Zealand Qualifications Framework (NZQF).

This review has resulted in fit-for-purpose assessment content being made available to industry that reflects current legislation and industry practice.

MITO's outdoor power equipment industry working group endorsed the unit standard review. The working group included subject matter experts and representatives from industry and MITO. The unit standards were circulated within the working group's wider networks and all feedback was actioned where appropriate.

Main changes

- Reviewed unit standards were amended to reflect current legislation, industry practice and recommendations, and to clarify their intent;
- Six unit standards were designated expiring without replacement as they are either no longer required by industry or they are covered by other standards on the NZQF;
- 11 new unit standards were developed to meet industry requirements.

The last date for assessment of superseded versions of Category B unit standards is December 2020

Category D unit standards will expire at the end of December 2021

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

All changes are in **bold**.

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 Electrical and Electronics

ID	Title	Level	Credit	Review Category
31893	Describe remotely operated outdoor power equipment systems	4	4	New
31894	Test portable generators in the automotive industry	3	2	New
31895	Describe testing of portable generators in the automotive industry	3	2	New

Engineering and Technology > Motor Industry > Automotive Preventive Maintenance

ID	Title	Level	Credit	Review Category
31891	Demonstrate knowledge of outdoor power equipment cutting systems, and describe their maintenance and fault diagnosis	4	3	New
31892	Maintain outdoor power equipment cutting systems, and diagnose and repair faults	4	4	New
31900	Demonstrate knowledge of earth compacting machine systems, and describe their maintenance and fault diagnosis	4	4	New

Engineering and Technology > Motor Industry > Automotive Transmission Systems

ID	Title	Level	Credit	Review Category
15416	Diagnose and rectify faults in manual drive systems used on outdoor powered equipment	4	5	D
31898	Diagnose and repair faults in power take-off clutches in the automotive industry	4	3	New
31899	Demonstrate knowledge of power take-off clutches, and describe their fault diagnosis in the automotive industry	4	2	New

Engineering and Technology > Motor Industry > Automotive Workshop Engineering

ID	Title	Level	Credit	Review Category
949	Demonstrate knowledge of lawnmower types and applications, and lawnmower operation	2	2	D
2328	Inspect and repair hand held outdoor power equipment	4	10	D
15425	Inspect and repair hand push mowers	2	1	D
15427	Sharpen and set reel type mower blades and cutting units	3	6	D
15430	Inspect and repair walk behind reel mowers	4	10	D
15429	Inspect and repair outdoor power equipment Diagnose and repair outdoor power equipment faults in the automotive industry	4	20	B

ID	Title	Level	Credit	Review Category
31896	Describe water blasters, low-pressure pumps, and diagnosing faults in the motor and related industries	4	4	New
31897	Diagnose and repair faults in water blasters and low-pressure pumps in the motor and related industries	4	4	New

Engineering and Technology > Motor Industry > Engines

ID	Title	Level	Credit	Review Category
879	Test, diagnose, and rectify faults in a two stroke petrol engine Test and tune two-stroke petrol engines and diagnose and repair faults	4	6	B
24294	Demonstrate knowledge of two stroke petrol engine lubrication, testing and tunings and diagnosing two stroke petrol engine faults Demonstrate knowledge of two-stroke petrol engine lubrication, testing and tuning	3 4	2 3	B
31901	Disassemble, inspect and reassemble an outdoor power equipment engine	4	10	New