

Field Engineering and Technology**Review of *Automotive Fuel Systems and Exhaust* unit standards, and reinstatement of unit standard 24195**

Subfield	Domain	ID
Motor Industry	Automotive Fuel Systems and Exhaust	15403, 24195 , 24231

MITO New Zealand Incorporated has completed the review of the unit standards listed above. The unit standard listed in **bold** was reinstated.

Date new versions published

August 2018

Planned review date

December 2023

Summary

As a result of the Targeted Review of Qualifications process, it became necessary for MITO to review motor industry unit standards to better reflect the requirements of the outcomes listed in the new qualifications and to ensure they remain fit-for-purpose. Alongside industry, MITO has reviewed two standards and developed sixteen standards. The review and development of these unit standards was completed to align with the New Zealand Certificate in Automotive Diesel Fuel Technology (Level 4) [Ref: 3454].

MITO was supported by the industry's working group during this review. Representation in the working group included subject matter experts and MITO representatives. The standards were also circulated in the working group's greater networks and all feedback was actioned where appropriate.

Main changes

- Two unit standards were reviewed and replaced with two new unit standards.
- One unit standard was reinstated as it contains recommended theoretical knowledge for several practical standards.
- 16 new unit standards were developed.

The last date for assessment of Category C unit standards is 31 December 2020

Impact on existing organisations with consent to assess

Current consent for			Consent extended to		
Nature of consent	Classification or ID	Level	Nature of consent	Classification or ID	Level
Subfield	Motor Industry	3	Standards	24195, 31391	4
Domain	Automotive Fuel Systems and Exhaust	3	Standards	24195, 31391	4
Standard	15403	3	Standard	31391	4

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 Fuel Systems and Exhaust

ID	Title	Level	Credit	Review Category
15403	Test and diagnose fuel injection systems, and repair fuel delivery systems	3	4	C
31391	Test and repair diesel fuel injectors	4	8	
24195	Demonstrate knowledge of diesel fuel injectors	3 4	4	Reinstated
24231	Overhaul an EP9-type diesel fuel injection pump	4	6	C
31393	Overhaul inline diesel fuel injection pumps	4	6	
31392	Diagnose and repair faults in diesel fuel injection systems	4	6	New
31394	Overhaul radial piston diesel fuel injection pumps	4	6	New
31395	Overhaul axial diesel fuel injection pumps	4	8	New
31396	Overhaul mechanical diesel fuel governors	4	10	New
31397	Overhaul an automotive turbocharger	4	8	New
31398	Diagnose faults in a turbocharger on a vehicle or machine, and remove and refit a turbocharger on an engine	4	5	New
31400	Demonstrate knowledge of inline diesel fuel injection pumps	4	5	New
31401	Demonstrate knowledge of radial piston diesel fuel injection pumps	4	8	New
31402	Demonstrate knowledge of axial diesel fuel injection pumps	4	5	New
31403	Demonstrate knowledge of common rail diesel fuel injection pumps	4	5	New
31404	Demonstrate knowledge of Bosch mechanical diesel fuel governors	4	6	New
31405	Demonstrate knowledge of Japanese diesel fuel governors	4	6	New
31406	Demonstrate knowledge of electronic diesel fuel governors	4	4	New
31407	Demonstrate knowledge of automotive turbocharges	4	4	New