Title
Demonstrate knowledge of vehicle body corrosion and anti-corrosion procedures in the motor industry

Level
3

Credits
4

Purpose
This theory-based unit standard is for people who wish to enter or are employed in the motor industry. People credited with this unit standard are able to demonstrate knowledge of vehicle body corrosion, and anti-corrosion procedures taken to protect vehicle bodies during, and after manufacture.

Classification
Motor Industry > Vehicle Bodywork

Available grade
Achieved

Explanatory notes

1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with applicable manufacturer’s specifications, service information, company and legislative requirements.

2 Legislation, regulations and/or industry standards relevant to this unit standard include but are not limited to the current version of including updated amendments to, and replacements of – Health and Safety at Work Act 2015, Land Transport Rules.

3 Land Transport Rules are available online at https://www.nzta.govt.nz/.

4 Definitions
   Company requirements refer to instructions to staff on policy and procedures which are documented in memo or manual format and are available in the workplace. These requirements include but are not limited to – company specifications and procedures, work instructions, manufacturer specifications, product quality specifications and legislative requirements.
   Service information may include but is not limited to – technical information of a vehicle, machine, or product detailing operation; installation and servicing procedures; manufacturer instructions and specifications; technical terms and descriptions; and detailed illustrations. This may be accessed from the manufacturer.

Outcomes and evidence requirements

Outcome 1
Demonstrate knowledge of vehicle body corrosion.

Evidence requirements
1.1 Types of corrosion affecting vehicle bodies are described.

Range includes but is not limited to five of – pitting, galvanic, scale, electrolytic, corrosion fatigue, rust bleed.

1.2 Causes of corrosion are described in relation to vehicle bodies.

Range causes include but are not limited to – salt air and water corrosion, environmental, incorrect anti-corrosion procedures during manufacture, incorrect repair procedures after manufacture, use of incompatible metals.

1.3 The effects and appearance of corrosion on ferrous and non-ferrous metals used on vehicle bodies are described.

Outcome 2

Demonstrate knowledge of anti-corrosion procedures taken to protect vehicle bodies during manufacture.

Evidence requirements

2.1 Anti-corrosion protection procedures are identified.

Range includes but is not limited to four of – cathodic, anionic, galvanising, anti-corrosion paints and compounds, cavity wax.

2.3 Ways that galvanising protects are identified.

2.4 Types of anti-corrosion fluids and their application are described.

2.5 Types of body compounds and sealers and their application are described.

Range includes but is not limited to – underseal/sound deadener, sealers, anti-chip coatings, anti-flutter foam.

Outcome 3

Demonstrate knowledge of anti-corrosion procedures taken to protect vehicle bodies after manufacture.

Evidence requirements

3.1 The materials used to protect vehicles from corrosion are identified.

Range includes but is not limited to – anti-corrosion fluids, underseal, anti-corrosion paints, metal conditioners.

3.2 The uses of protective primers, paint coatings, and sealers when repairing vehicle bodies are described.
3.3 The importance of applying anti-corrosion procedures during and after repair is explained.

Range avoid corrosion, reinstate manufacturer warranty, prolong vehicle body life.

3.4 Vehicle manufacturer warranty regarding corrosion is identified.

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<th>Replacement information</th>
<th>This unit standard and unit standard 23999 replaced unit standard 5746.</th>
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<tr>
<th>Consent and Moderation Requirements (CMR) reference</th>
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**Please note**
Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMRs). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

**Comments on this unit standard**

Please contact the MITO New Zealand Incorporated info@mito.org.nz if you wish to suggest changes to the content of this unit standard.