

<b>Title</b>	<b>Demonstrate knowledge of workshop and paint curing equipment in the automotive refinishing industry</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	This theory-based unit standard is for people who wish to enter or are employed in the automotive refinishing industry. People credited with this unit standard are able to demonstrate knowledge of workshop equipment and paint curing equipment in an automotive refinishing workshop.
----------------	---

<b>Classification</b>	Motor Industry > Automotive Refinishing
-----------------------	---

<b>Available grade</b>	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 – Hazardous Substances and New Organisms Act 1996; Health and Safety at Work Act 2015; Spray Coating Regulations 1962.
- 3 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 workshop equipment in an automotive refinishing workshop.

**Evidence requirements**

1.1 Purpose and the uses of equipment are identified.

Range includes but is not limited to six of – compressors, spray booths, dust extraction systems, oil lubricating systems, air cleaning systems, air dryers, air line system.

1.2 How to operate the equipment is described.

Range includes but is not limited to ten of – compressors, spray booths, preparation booths, aqua-dry units for waterborne paints, dust extraction systems both on and off the machine, air line and air cleaning systems, gun wash machines for solvent and waterborne paints, air dryers, air line system, floor jack, dustless dry sanding system.

1.3 Causes of air pressure drop between the compressor and air outlet are identified.

1.4 The reasons for following equipment manufacturer instructions/specifications are identified.

**Outcome 2**

Demonstrate knowledge of paint curing equipment in an automotive refinishing workshop.

**Evidence requirements**

2.1 Paint curing equipment is identified.

Range includes but is not limited to four of – infra-red, gas, ultra violet cure, bake oven, heat lamps, air movers.

2.2 The way that infra-red and UV curing equipment operates is described.

Range includes but is not limited to four of – medium wave, short wave, long wave; bank, arch, single, UV.

2.3 The way that bake ovens operate is described.

Range includes but is not limited to five of – gas, diesel, oven controls, direct and indirect heating, speed of baking process, heat exchanger.

2.4 Temperature ranges, flash-off, and drying times for different paint types and equipment are identified.

Range equipment includes but is not limited to – bake oven, infra-red, UV, gas infra-red;  
paint includes but is not limited to – two pack paints, single pack paints, UV paints, waterborne materials, effect of additives.

- 2.5 The effect of heat on vehicle plastics, alternative fuel/power systems, supplementary restraint systems, and on-board computers are identified.

<b>Replacement information</b>	This unit standard and unit standard 24011 replaced unit standard 5713 and unit standard 5714.
--------------------------------	--

<b>Planned review date</b>	31 December 2021
----------------------------	------------------

#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	26 November 2007	31 December 2018
Review	2	21 April 2016	31 December 2018
Revision	3	19 January 2017	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0014
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

#### 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 MITO New Zealand Incorporated [info@mito.org.nz](mailto:info@mito.org.nz) if you wish to suggest changes to the content of this unit standard.