

<b>Title</b>	<b>Apply metal spray coatings to steel surfaces</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>This specialist unit standard for people working in the coatings area in the painting and decorating sector.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of metal spray coating; service a metal spray system; apply metal spray coatings; and identify and remedy faults and defects.</p>
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<b>Classification</b>	Construction Trades > Painting and Decorating
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Legislation and references relevant to this unit standard include but are not limited to – the Health and Safety in Employment Act 1992 (HSE); Resource Management Act 1991; the guidelines of the Occupational Safety and Health (OSH) Service of the Department of Labour; and Australia Standard/New Zealand Standard AS/NZS 2312:2002 *Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings*, available at <http://www.standards.co.nz>.
- 2 This unit standard must be assessed against in a realistic workplace environment. The candidate must be under realistic time pressures, and use relevant commercial equipment and approved industry techniques.
- 3 Definition  
*Worksite requirements* refer to job instructions to staff on agreed work to be carried out.

### Outcomes and performance criteria

#### Outcome 1

Demonstrate knowledge of metal spray coating.

#### Performance criteria

- 1.1 The purpose of metal spray coating is explained.

1.2 The main metal spray coatings are identified in terms of their uses.

Range includes but is not limited to – zinc, aluminium, zinc/aluminium alloys.

## Outcome 2

Service a metal spray system.

### Performance criteria

2.1 The parts of a metal spray unit are identified and their function described.

2.2 A metal spray unit is serviced in accordance with manufacturer's specifications and worksite requirements.

## Outcome 3

Apply metal spray coatings.

### Performance criteria

3.1 The steel surface is prepared in accordance with AS/NZS 2312:1994.

3.2 Metal spray equipment suitable to the task is selected, and assembled in accordance with worksite requirements.

3.3 The metal spray coating is applied in accordance with AS/NZS 2312:1994.

3.4 Safe working practices appropriate to the task being undertaken are implemented in accordance with legislative and worksite requirements.

## Outcome 4

Identify and remedy faults and defects.

### Performance criteria

4.1 Application faults and defects are identified and remedies applied in accordance with worksite requirements.

Range includes but is not limited to – preparation, dry film thickness.

4.2 Equipment faults and defects are identified and remedial action taken in accordance with worksite requirements.

Range includes but is not limited to – nozzles, pressure, turbine speeds.

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**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

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

Process	Version	Date	Last Date for Assessment
Registration	1	1 December 1994	31 December 2012
Review	2	4 July 1995	31 December 2012
Revision	3	5 November 1997	31 December 2012
Revision	4	8 April 1999	31 December 2012
Review	5	27 January 2003	31 December 2012
Review	6	18 August 2011	31 December 2026
Review	7	24 April 2025	31 December 2028

<b>Consent and Moderation Requirements (CMR) reference</b>	0175
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.