

<b>Title</b>	<b>Apply coatings to pipelines and underground structures</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 coatings for pipelines and underground structures; prepare surfaces and apply coatings to pipelines and underground structures; and identify and remedy application faults.</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 – Health and Safety in Employment Act 1992 (HSE); Resource Management Act 1991; Hazardous Substances and New Organisms Act 1996; AS/NZS 2312:2002 *Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings*; AS/NZS 2311:2009 *Guide to the painting of buildings*, 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 coatings for pipelines and underground structures.

Range coatings include but are not limited to – impregnated tapes, plastics tapes, epoxy finishes.

**Performance criteria**

- 1.1 The types of coatings used on pipelines and underground structures are identified and described in terms of their end use.
- 1.2 The performance characteristics of coatings for pipelines and underground structures are explained.
- Range includes but is not limited to – temperature, dirt collection, mechanical damage.
- 1.3 The principle of cathodic protection is explained.
- Range includes but is not limited to – sacrificial anodes, impressed current.

**Outcome 2**

Prepare surfaces and apply coatings to pipelines and underground structures.

**Performance criteria**

- 2.1 Surfaces are cleaned in accordance with the manufacturer's specifications and worksite requirements.
- 2.2 Application equipment suitable to the task is selected in accordance with worksite requirements.
- 2.3 The selected coating system is applied in accordance with the manufacturer's specifications and worksite requirements.
- 2.4 Quality control methods are implemented in accordance with the product manufacturer's specifications and worksite requirements.
- 2.5 Safe working practices appropriate to the task being undertaken are implemented in accordance with relevant legislation, OSH guidelines and worksite requirements.

**Outcome 3**

Identify and remedy application faults.

**Performance criteria**

- 3.1 Any application faults are identified and remedies are applied in accordance with worksite requirements.
- Range includes but is not limited to – temperature, overlap tension film thickness.

**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>.