

<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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### Explanatory notes

- 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.

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### Outcomes and evidence requirements

#### 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.

**Evidence requirements**

- 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.

**Evidence requirements**

- 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.

**Evidence requirements**

- 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.

<b>Planned review date</b>	31 December 2016
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#### 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	N/A

<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>.

#### 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 Building and Construction Industry Training Organisation [info@bcito.org.nz](mailto:info@bcito.org.nz) if you wish to suggest changes to the content of this unit standard.