Title | Carry out cathodic protection system monitoring in a petrochemical workplace
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Level | 4
Credits | 3

**Purpose**

This unit standard is for people employed in the petrochemical industry.

People credited with this unit standard are, in a petrochemical workplace, able to: use cathodic protection system monitoring equipment; locate and follow documentation and reporting procedures for cathodic protection systems; and calculate and report results of testing cathodic protection systems.

**Classification**

Petrochemical Industry > Petrochemical Cathodic Protection

**Available grade**

Achieved

**Entry information**

**Critical health and safety prerequisites**

Unit 9575, *Explain the purpose and application of cathodic protection in a petrochemical workplace* or demonstrate equivalent knowledge and skills.

**Explanatory notes**

1. Performance of the outcomes of this unit standard must comply with relevant site requirements, manufacturer’s recommendations, and the following legislation and standards:
   - Health and Safety at Work Act 2015;
   - Resource Management Act 1991;
   - Standards relating to cathodic protection issued by: National Association Corrosion Engineers (NACE), available at [http://www.nace.org](http://www.nace.org);
   - Standards Australia, available at [http://www.saiglobal.com](http://www.saiglobal.com);

2. This unit standard is intended for, but is not limited to, workplace assessment. While all evidence requirements must be met, it is noted that all range statements within this unit standard are indicative and dependent on enterprise and site specific equipment, procedures and practices.

3. Definitions
   - *Primary data* refers to first analysis results.
Site requirements mean the site specific documented methods for performing work activities and include health, safety, environmental, and quality management requirements. They may refer to manuals, codes of practice, or policy statements.

Outcomes and evidence requirements

Outcome 1

Use cathodic protection system monitoring equipment in a petrochemical workplace.

Evidence requirements

1.1 The integrity of the cathodic protection system is assessed to determine the need to use cathodic protection system monitoring equipment in accordance with site requirements.

1.2 Cathodic protection monitoring equipment is selected as relevant to site conditions.

1.3 Cathodic protection monitoring equipment is operated safely to determine the extent of maintenance required.

1.4 Potential hazards of incorrect application and operation of cathodic protection monitoring equipment are explained and avoided in accordance with site requirements.

Range under protection, over protection.

Outcome 2

Locate and follow documentation and reporting procedures for cathodic protection systems in a petrochemical workplace.

Evidence requirements

2.1 Specified documentation and standards for cathodic protection monitoring equipment are used.

Range test certificates, certification, standards for safety, standards for in-service safety inspection and testing of equipment, identification tags, labels.

2.2 General site equipment documentation and information are located and interpreted.

Range manufacturer's information, equipment operating manuals, safety procedures, operating procedures, maintenance procedures.

2.3 International cathodic protection standards and reporting criteria specific to the site are identified.

Range international standards – BSI British, Australian, NACE.
Outcome 3

Calculate and report results of testing cathodic protection systems in a petrochemical workplace.

Evidence requirements

3.1 Any corrections to primary data are made in accordance with site specific authorised procedures.

3.2 Results are calculated from primary data.

3.3 Any deviations from the expected range of results are investigated and reported in accordance with site requirements.

3.4 The report includes calculated results, analysis, and conclusions in accordance with site requirements.

Planned review date | 31 December 2018

Status information and last date for assessment for superseded versions

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Consent and Moderation Requirements (CMR) reference | 0079


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 Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.