Title | Undertake corrosion inspection in a petrochemical workplace
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Level | 4
Credits | 10

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: describe corrosion inspection equipment; use corrosion inspection equipment; and use documentation and reporting procedures for corrosion inspections.

Classification

Petrochemical Industry > Petrochemical Process and Product Management

Available grade

Achieved

Guidance Information

1 Performance of the outcomes of this unit standard must comply with relevant site requirements and the following legislation: Health and Safety at Work Act 2015; Resource Management Act 1991.

2 This unit standard is intended for, but is not limited to, workplace assessment. While all performance criteria 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 Definition

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 performance criteria

Outcome 1

Describe corrosion inspection equipment in a petrochemical workplace.

Performance criteria

1.1 Corrosion inspection equipment is described in terms of type.

Range fixed, portable, non-destructive testing.
1.2 Corrosion inspection equipment is located and its use is described in terms of site specific applications.

1.3 Corrosion inspection equipment is described in terms of types of information it relays.

Range wall thicknesses, cracks, fractures, pit depth, general corrosion.

**Outcome 2**

Use corrosion inspection equipment in a petrochemical workplace.

**Performance criteria**

2.1 The integrity of the protective coating system is assessed to determine the need to use corrosion inspection equipment.

Range lagged pipe, water ingress, coating condition.

2.2 Corrosion inspection equipment is selected for appropriateness to site conditions.

2.3 Corrosion inspection equipment is operated safely to determine the extent of corrosion.

2.4 Safety procedures relating to corrosion inspection techniques are located and used.

2.5 Potential hazards of incorrect application and operation of corrosion inspection equipment are explained and avoided in accordance with site requirements.

**Outcome 3**

Use documentation and reporting procedures for corrosion inspections in a petrochemical workplace.

**Performance criteria**

3.1 Corrosion inspection equipment documentation is used for the inspections in accordance with site requirements.

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

3.2 General equipment documentation is referenced and relevant information is used to inform the inspections.

Range manufacturer's information, equipment operating manuals, safety procedures, operating procedures, maintenance procedures.
3.3 Records and documents are completed in accordance with site requirements.

Range test report, photographs.

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

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**Consent and Moderation Requirements (CMR) reference** 0079