

Title	Carry out gas testing using Draeger tube-type equipment in a petrochemical environment		
Level	3	Credits	1

Purpose	People credited with this unit standard are, in a petrochemical environment, able to: demonstrate knowledge of Draeger tube-type measuring equipment; use Draeger tube-type measurement equipment; and locate and use documentation and reporting procedures.
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Classification	Petrochemical Industry > Petrochemical Product Transmission and Transfer
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Available grade	Achieved
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Guidance Information

- 1 This unit standard is intended for, but not limited to work-based assessment. While all performance criteria must be met, it is noted that some range statements within this unit standard are indicative and dependent on enterprise and site specific equipment, procedures and practices.
- 2 Performance in relation to the outcomes must comply with regulations and codes pertaining to the petrochemical industry.
- 3 For individual worksites, references to: *in accordance with site application, site specific requirements, site laboratory procedures*, means that site procedures must comply with the above legislation, regulations, and industry codes and/or practices.
- 4 All work practices must meet recognised codes of practice and documented company health and safety procedures. Where these exceed code of practice for personal, product and company health and safety, they must meet the obligations required under current legislation, including the Health and Safety at Work Act 2015.
- 5 All work practices must meet recognised codes of practice and documented company environmental procedures. Where these exceed code for personal, product, and company environmental matters, they must meet the obligations required under current legislation including the Resource Management Act 1991.
- 6 Work practices must meet documented company quality management requirements. This includes documentation of activities, events and decisions.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of Draeger tube-type measuring equipment used in a petrochemical environment.

Performance criteria

- 1.1 Draeger tube-type measurement equipment is described to identify component parts.
- Range Draeger test tubes, manual and automatic aspirators.
- 1.2 Draeger tube-type measurement equipment is located and its use explained to determine functional application.
- Range may include but is not limited to – mercaptan, hydrogen sulphide, carbon dioxide, carbon monoxide.
- 1.3 Safety procedures relating to Draeger tube-type testing are identified according to site requirements.

Outcome 2

Use Draeger tube-type measurement equipment as applied in a petrochemical environment.

Performance criteria

- 2.1 Draeger tube-type measurement equipment suitable for the testing of specific conditions is selected.
- 2.2 Equipment is operated in accordance with site and manufacturer's instructions.
- Range shelf life, storage temperature, pump leak test, assembly, tube orientation, interpretation of results, tube disposal.
- 2.3 Safety procedures relating to Draeger tube-type measurement techniques are used in accordance with site safety procedures.
- 2.4 Potential hazards of incorrect application and faults in operation are identified and the steps to avoid or rectify them explained.
- Range may include but is not limited to – leaking pumps, incorrect preparation of tube, incorrect choice of tube, incorrect pump rate, sampling conditions.

Outcome 3

Locate and use documentation and reporting procedures.

Performance criteria

- 3.1 Specified documentation and standards for Draeger tube-type measurement equipment are used in accordance with site and regulatory requirements.
- Range expiry date, batch number, equipment operating instructions, operating procedures, maintenance procedures.
- 3.2 Records and documents are supplied to appropriate personnel according to company requirements.

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	6 February 1997	31 December 2018
Revision	2	3 August 2000	31 December 2018
Review	3	24 January 2002	31 December 2018
Rollover and Revision	4	20 April 2017	31 December 2022
Review	5	27 February 2020	31 December 2022

Consent and Moderation Requirements (CMR) reference	0079
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.