

Title	Describe purging, and purge systems in an energy and chemical plant		
Level	4	Credits	10

Purpose	<p>This unit standard is intended for people working as boiler operators and energy and chemical process operators in an energy and chemical plant.</p> <p>People credited with this unit standard are able to describe: the purpose and methods of purging; and site-specific purging media in the energy and chemical industry. They are also able to purge systems in an energy and chemical plant and verify the status.</p>
----------------	--

Classification	Energy and Chemical Plant > Operation of Energy and Chemical Plant
-----------------------	--

Available grade	Achieved
------------------------	----------

Guidance Information

- 1 Legislation relevant to this unit standard includes but is not limited to:
 - Health and Safety at Work Act 2015;
 - Hazardous Substances and New Organisms Act 1996;
 - Resource Management Act 1991;
 - and any subsequent amendments.

- 2 Definitions

Energy and chemical plant may be in – petrochemical, agri-nutrient, power generation, dairy processing, meat processing, and wood fibre manufacturing, or other plants that operate with a combination of high temperatures, pressures, steam and/or chemicals in gas, liquid or solid form.

Organisational requirements – documented policies and procedures. These may include: equipment manufacturers' procedures; plant procedures; suppliers' instructions; site signage; codes of practice; company health and safety plans; on site briefings; and supervisor's instructions. This includes all regulatory and legislative obligations that apply to the plant.

Plant – the operational unit, equipment and/or workplace at which the person is working.

- 3 For the purposes of assessment evidence:
 - for the practical components of this unit standard must be supplied from the workplace.
 - must be presented in accordance with organisational requirements.

Outcomes and performance criteria

Outcome 1

Describe the purpose and methods of purging and purging media in the energy and chemical industry.

Performance criteria

1.1 Describe purging in terms of its purpose.

Range evidence of three purposes is required.

1.2 Describe purging in terms of the methods used.

Range methods include but are not limited to – sweep, partial pressure, water, steam, air.

1.3 Describe purging media in terms of use, selection, and potential hazards.

Range evidence of one inert gas and two other examples is required.

Outcome 2

Purge systems in an energy and chemical plant and verify the status.

Range evidence of two purging operations, one of which may be simulated, if required.

Performance criteria

2.1 Identify boundaries of the system to be purged.

2.2 Identify the method of purging, purging equipment, material to be purged, purging media, and destination of purged products.

2.3 Isolate, purge, and monitor the system to be purged.

2.4 Verify the effectiveness of purge.

2.5 Document and report the purging operation.

Planned review date	31 December 2024
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 June 2005	31 December 2014
Rollover and Revision	2	25 July 2006	31 December 2014
Review	3	22 May 2009	31 December 2016
Review	4	24 October 2014	31 December 2022
Review	5	27 February 2020	N/A

Consent and Moderation Requirements (CMR) reference

0079

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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.