

## 40367 Describe energy and chemical plant pollutants and their control measures

<b>Kaupae   Level</b>	3
<b>Whiwhinga   Credit</b>	5
<b>Whāinga   Purpose</b>	<p>This skill standard is intended for people working as boiler and energy and chemical process operators.</p> <p>People credited with this skill standard are able to describe: pollutants; pollutant control compliance measures; and employer and employee responsibilities relating to pollutants under the Resource Management Act (RMA), in an energy and chemical plant.</p> <p>This skill standard can be used in the New Zealand Energy and Chemical qualifications at Levels 3 and above.</p>

### Hua o te ako me Paearu aromatawai | Learning outcomes and assessment criteria

<b>Hua o te ako   Learning outcomes</b>	<b>Paearu aromatawai   Assessment criteria</b>
1. Describe pollutants in an energy and chemical plant.	a. Identify pollutants in an energy and chemical plant.
	b. Describe pollutants in terms of their environmental impacts.
2. Describe pollutant control compliance measures in an energy and chemical plant.	a. Describe plant contingency plans and procedures for pollutant control in terms of actions required.
	b. Describe processes for monitoring, testing, analysing, and reporting of pollution levels.
	c. Identify the location of site-specific resource consents.
3. Describe employer and employee responsibilities relating to pollutants under the Resource Management Act (RMA) in an energy and chemical plant.	a. Describe employee responsibilities within the plant in terms of the RMA.
	b. Describe employer responsibilities within the plant in terms of the RMA.
	c. Describe penalties for breach of responsibilities in terms of the RMA.
	d. Describe a process for ensuring plant systems are compliant with the RMA.

**Pārongo aromatawai me te taumata paearu** | Assessment information and grade criteria

Assessment specifications:

- evidence for all outcomes must be presented in accordance with organisational requirements.
- Learning outcome 1: must include air, water, ground and noise pollutants.
- 3d: evidence of one (1) process is required.

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.

**Ngā momo whiwhinga** | Grades available

Achieved.

**Ihirangi waitohu** | Indicative content

None.

**Rauemi** | Resources

Legislation and regulations relevant to this unit standard include but are not limited to:

- Health and Safety at Work Act 2015;
- Health and Safety at Work (Hazardous Substances) regulations 2017 (HSWA);
- Resource Management Act (RMA) 1991; and any subsequent amendments.

**Pārongo Whakaū Kouna** | Quality assurance information

<b>Ngā rōpū whakatau-paerewa</b>   Standard Setting Body	Hanga-Aro-Rau Manufacturing, Engineering and Logistics Workforce Development Council
<b>Whakaritenga Rārangi Paetae Aromatawai</b>   DASS classification	Manufacturing > Energy and Chemical Plant > Safety and Legislation for Energy and Chemical Plant
<b>Ko te tohutoro ki ngā Whakaritenga i te Whakamanatanga me te Whakaōritenga</b>   CMR	0079

Hātepe   Process	Putanga   Version	Rā whakaputa   Review Date	Rā whakamutunga mō te aromatawai   Last date for assessment
Rēhītatanga   Registration	1	30 January 2025	N/A
Kōrero whakakapinga   Replacement information	This skill standard replaced unit standard 21468.		
Rā arotake   Planned review date	31 December 2029		

Please contact Hanga-Aro-Rau Engineering, Manufacturing and Logistics Workforce Development Council at [qualifications@hangaarorau.nz](mailto:qualifications@hangaarorau.nz) to suggest changes to the content of this skill standard.