

## 40369 Prepare and use boiler house chemicals in an energy and chemical plant

<b>Kaupae   Level</b>	3
<b>Whiwhinga   Credit</b>	7
<b>Whāinga   Purpose</b>	<p>This skill 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 skill standard are able to: describe boiler house chemicals and the required safety procedures; and prepare and use boiler house chemicals, 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

Hua o te ako   Learning outcomes	Paearu aromatawai   Assessment criteria
1. Describe boiler house chemicals and the required safety procedures in an energy and chemical plant.	a. Locate and interpret chemical data to identify chemicals and precautions for their handling, storage, usage, and disposal.
	b. Describe first aid procedures for exposure to each boiler house chemical in terms of the relevant safety data sheet.
	c. Describe spill handling procedures for each boiler house chemical in terms of precautions and actions to be taken.
	d. Describe boiler house chemicals in terms of the hazards for personnel, plant and the environment.
	e. Describe the inventory management system used for boiler house chemicals.
2. Prepare and use boiler house chemicals in an energy and chemical plant.	a. Prepare and use boiler house chemicals using safe work practices in accordance with organisational requirements.

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

#### Assessment specifications:

- evidence for the practical components of this skill standard must be supplied from the workplace.
- Learning Outcome 1: Evidence of three (3) chemicals is required
- Learning Outcome 2: Evidence of two (2) chemicals 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.

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

**Ngā momo whiwhinga** | Grades available

Achieved.

**Ihirangi waitohu** | Indicative content

- Chemical data, such as – Hazchem code, safety data sheets, container labels, HSNO classifications.

**Rauemi** | Resources

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 (HSNO) 1996;
  - Resource Management Act 1991;
- and any subsequent amendments.

**Pārongo Whakaū Kounga** | 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 28168.		
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.