

## 40365 Use energy and chemical industry symbols, signs, and terminology

<b>Kaupae   Level</b>	2
<b>Whiwhinga   Credit</b>	2
<b>Whāinga   Purpose</b>	<p>People credited with this skill standard are able to identify, explain, and use energy and chemical industry symbols, signs, and terminology.</p> <p>This skill standard can be used towards 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. Identify and explain energy and chemical industry symbols, signs, and terminology.	a. Identify and explain industry specific symbols and signs in terms of their purpose and function.
	b. Explain safety signage in terms of classifications and signage colour conventions.
	c. Explain energy and chemical industry terminology in terms of site applications.
2. Use energy and chemical industry symbols, signs, and terminology.	a. Use signs and symbols to warn personnel of potential hazards.
	b. Use signs and symbols for identification purposes.
	c. Use specific industry terminology to communicate information.

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

#### Assessment specifications:

Ranges for assessment criteria include:

- 1a: chemical, safety, road.
- 1b: classifications – caution, warning, danger, general attention; colour conventions for – safety signs, chemical data, road signage.
- 1c: chemical, technical, equipment, safety, industry standard acronyms.
- 2b: equipment, process flows, process parameters, composition.
- 2c: written, oral, electronic.

## 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

None.

## Rauemi | Resources

None.

## 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

<b>Hātepe</b>   Process	<b>Putanga</b>   Version	<b>Rā whakaputa</b>   Review Date	<b>Rā whakamutunga mō te aromatawai</b>   Last date for assessment
<b>Rēhitatanga</b>   Registration	1	30 January 2025	N/A
<b>Kōrero whakakapinga</b>   Replacement information	This skill standard replaced unit standard 9621.		
<b>Rā arotake</b>   Planned review date	31 December 2029		

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