40463 Control a safe work management system in an energy and chemical plant

Kaupae | Level	5
Whiwhinga | Credit	20
Whāinga | Purpose	This skill standard is intended for experienced people working as boiler operators, energy and chemical process operators, and senior managers in an energy and chemical plant. People credited with this skill standard are able to: describe the safe work management system; and develop work control documentation. They are also able to control the safe work management system in an energy and chemical plant. This skill standard can be used in the New Zealand Energy and Chemical qualifications at Level 5.

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

Hua o te ako | Learning outcomes	**Paearu aromatawai** | Assessment criteria
1. Describe the safe work management system used in an energy and chemical plant.	a. Describe the safe work management system used by the organisation in terms of its key features.
	b. Explain the policies and procedures that guide risk assessment, isolation and work control documentation.
	c. Outline the roles and responsibilities of participants within the safe work management system.
	d. Describe the procedures for managing engineering overrides within the safe work management system.
	e. Describe the management of simultaneous operations at the plant and its integration with the safe work management system.
	f. Describe the business assurance processes for safe work management.

Hua o te ako | Learning outcomes	**Paearu aromatawai** | Assessment criteria
2. Develop work control documentation in an energy and chemical plant.	a. Use safe work management hazard or risk assessment processes to inform the development of work control documentation.
	b. Develop work control documentation and associated controls to meet the requirements of the safe work management system and communicate to relevant personnel.
3. Control the safe work management system in an energy and chemical plant.	a. Communicate the safe work controls and requirements to relevant personnel.
	b. Control and audit the safe work management system throughout the work.
	c. Close work control processes to confirm task completion, and ensure plant is available for service.
	d. Complete and archive documentation in accordance with the safe work management system 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.
- evidence for all outcomes must be presented in accordance with organisational requirements.
- 1a: evidence of four (4) key features is required.
- 1d: procedures include but are not limited to – risk analysis, approvals, recording, reinstatement.
- 1e: management includes but is not limited to – communication, shared isolations.
- Learning outcome 2: evidence of five (5) different work scopes is required.
- 2b: work control documentation includes but is not limited to – certificates, isolation instructions, safe work method statements.
- 3a: communication includes but is not limited to – confirmation of the work scope required, handover of complete document set, confirmed responsibilities, further precautions required; evidence of five (5) scenarios is required.

Definitions:

Business assurance – an organisation's internal audit process.

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.

Engineering overrides – may also be known as frigs, operational override switches, or maintenance override switches.

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.

Safe work management system – may also be known as the documented work control system in some organisations. This covers the initial hazard and risk assessment carried out when planning the work, determination and creation of work control documentation (such as work permits, certifications, work method statements, job safety analysis) to ensure the ongoing safety of those working on the plant.

Ngā momo whiwhinga | Grades available

Achieved

Ihirangi waitohu | Indicative content

- Safe work management system control actions such as – change of scope, required isolations, response to an emergency situation.

Rauemi | Resources

Legislation relevant to this skill 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.

Pārongo Whakaū Kounga | Quality assurance information

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

Hātepe | Process	**Putanga** | Version	**Rā whakaputa** | Review Date	**Rā whakamutunga mō te aromatawai** | Last date for assessment
Rēhitatanga | Registration	1	24 April 2025	N/A
Kōrero whakakapinga | Replacement information	This skill standard replaced unit standard 28164.		
Rā arotake | Planned review date	31 December 2029		

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