

Title	Demonstrate knowledge of hazardous substances at an extractive site		
Level	4	Credits	5

Purpose	People credited with this unit standard are able to: describe the HSNO (Hazardous Substances and New Organisms Act 1996) and the HSW (Hazardous Substances) Regulations 2017 in relation to their application and impact at an extractives site; explain the nature of hazardous substances and their potential effects on health and the environment; and interpret key written information on labels, safety data-sheets (SDS), and company data-sheets for hazardous substances.
----------------	---

Classification	Extractive Industries > Extractive Industries Management
-----------------------	--

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

Guidance Information

- Performance of the outcomes of this unit standard must comply with the following:
 - Health and Safety at Work Act 2015 (HSW);
 - Health and Safety at Work (General Risk and Workplace Management) Regulations 2016;
 - Health and Safety at Work (Worker Engagement, Participation, and Representation) Regulations 2016;
 - Health and Safety at Work (Mining Operations and Quarrying Operations) Regulations 2016;
 - Health and Safety at Work (Hazardous Substances) Regulations 2017 and related Safe Work Instruments (SWIs) published by WorkSafe NZ;
 - Hazardous Substances and New Organisms Act 1996 (HSNO);
 - approved codes of practice issued pursuant to the HSW Act.

Any new, amended or replacement Acts, regulations, standards, codes of practice, guidelines, or authority requirements or conditions affecting this unit standard will take precedence for assessment purposes, pending review of this unit standard.

- This unit standard is intended for, but is not limited to, workplace assessment and does NOT include the storage, handling and transportation of explosives.

Outcomes and performance criteria

Outcome 1

Describe the HSNO Act 1996 and the HSW (Hazardous Substances) Regulations 2017 in relation to their application and impact at an extractive site.

Performance criteria

- 1.1 The HSNO Act 1996 is described in terms of its application and impact to an extractive site.
- Range hazardous substances may include but are not limited to – fuel, oil, chemicals, workshop gases and cleaning products.
- 1.2 The HSW (Hazardous Substances) Regulations 2017 and related SWIs are described in terms of their application and impact on an extractive site.
- Range includes but is not limited to – approved handler, controlled substance licence, storage, location certificates, storage, stock records, segregation of products, transportation, test certificates.

Outcome 2

Explain the nature of hazardous substances and their potential effects on health and the environment.

Performance criteria

- 2.1 The forms of hazardous substances are explained in terms of solid, liquid, and gaseous forms.
- 2.2 The difference between toxic substances and dangerous goods is explained in terms of personal health and workplace safety, both short and long-term.
- 2.3 The routes of entry into the body are explained in relation to inhalation, absorption, and ingestion.
- 2.4 Exposure to hazardous substances and their entry into the body are described in relation to the injury outcomes.
- Range three hazardous substances.
- 2.5 The environmental impacts of hazardous substances are explained in terms of contamination pathways and potential effects on land, air, water and ecosystems.
- Range may include but is not limited to – spills, leaks, incorrect disposal, runoff, vapour release, bioaccumulation, harm to flora and fauna.

Outcome 3

Interpret key written information on labels, safety datasheets (SDS), and company datasheets for hazardous substances.

Performance criteria

3.1 Labels are interpreted in terms of their requirements, wording, symbols, and subsequent action.

Range requirements – provide information and instruction, fixed to container, legible, provide further contact details; wording and symbols (UN classification) – at least three signal words and three symbols.

3.2 SDS are located in the workplace and interpreted in terms of their impact on an extractive site.

Range may include but is not limited to – health hazard information, cautions for use, safe handling information and product identification, emergency response requirements.

3.3 Company datasheets are explained in terms of interpretation of company requirements and procedures.

3.4 Type of personal protective equipment (PPE) for protection from hazardous substances of the workplace are identified.

Range at least three hazardous substances are required and the appropriate PPE for those substances.

Planned review date	31 December 2030
----------------------------	------------------

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	25 July 1999	31 December 2017
Review	2	27 January 2005	31 December 2017
Rollover and Revision	3	16 July 2010	31 December 2017
Review	4	18 June 2015	31 December 2027
Rollover and Revision	5	25 January 2018	31 December 2027
Review	6	26 February 2026	N/A

Consent and Moderation Requirements (CMR) reference	0014
--	------

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

Comments on this unit standard

Please contact Energy and Infrastructure Industry Skills Board qualifications@energyinfra-skills.nz if you wish to suggest changes to the content of this unit standard