

Title	Demonstrate knowledge of work control procedures in an energy and chemical plant		
Level	3	Credits	3

Purpose	<p>This unit 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 unit standard are able to demonstrate knowledge of work control procedures in an energy and chemical plant; and describe the work control removal sequence plan, and communication procedures.</p>
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Classification	Energy and Chemical Plant > Operation of Energy and Chemical Plant
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Available grade	Achieved
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Guidance information

- 1 Legislation and the code of practice relevant to this unit standard include but are not limited to:
 - *Approved Code of Practice for the Design, Safe Operation, Maintenance and Servicing of Boilers* (the Code), Published by the Occupational Safety and Health Service Department of Labour, 2004;
 - Health and Safety at Work Act 2015;
 - Health and Safety at Work (Hazardous Substances) Regulations 2017; and any subsequent amendments.

- 2 Definitions

Energy or 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.

Work controls may also include isolations.

- 3 For the purposes of assessment:
 - evidence for all outcomes must be presented in accordance with organisational requirements.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of work control procedures in an energy and chemical plant.

Performance criteria

- 1.1 Describe the overarching intent of the Health and Safety at Work Act 2015 for the control of work on an energy or chemical plant.
- 1.2 Describe the overarching intent of the Health and Safety at Work Act (Hazardous Substances) Regulations 2017 for the control of Hazardous Chemicals on an energy or chemical plant.
- 1.3 Describe how the need for work controls is identified and communicated.
- Range may include but is not limited to – defect maintenance report, job card, work order, scope of work, logbooks, communication; evidence of four is required.
- 1.4 Describe how work controls are used to control identified risks.
- Range work controls include but are not limited to – barriers; job hazard analysis (JHA), recovery plans, responsible parties; isolations include but are not limited to – signage, double block and bleed, spading, blinding, tagging, lockout, stopple plugs, bladders, freezing, spool piece removal.
- 1.5 Describe the factors to be considered, and their implications, for planning a work control boundary.
- Range includes but is not limited to – plant drawings, plant identification, physical inspection, limitations, mechanical isolation standards, access requirements, timeframe, communication procedures.
- 1.6 Describe responsibilities of personnel when planning work controls to enable work to be undertaken.
- Range permit issuer, area operator, permit recipient, worker
- 1.7 Describe how system derived hazards within the work control boundary are controlled and/or communicated to the work party prior to work commencing.
- Range may include but are not limited to – draining, venting, purging, flushing, cleaning, ventilation, earthing, testing
evidence of at least four is required.

1.8 Describe the methods used to maintain integrity and effectiveness of work control during the work.

Range lockout and tagout, barriers, Personal Hold cards, permit for work, communication, monitoring and isolation management

Outcome 2

Describe the work control removal sequence plan, and communication procedures.

Performance criteria

2.1 Describe factors to be considered in the work control removal sequence plan.

Range completed status of work objective(s), other affected work, stakeholders, plant availability.

2.2 Describe communication procedures ensuring that all relevant information is transferred to stakeholders.

Planned review date	31 December 2024
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	27 February 2020	N/A

Consent and Moderation Requirements (CMR) reference	0079
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact the Primary Industry Training Organisation standards@primaryito.ac.nz if you wish to suggest changes to the content of this unit standard.