

<b>Title</b>	<b>Enter classified explosive atmosphere areas to undertake work</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	<p>This unit standard is intended for use in the training and assessment of people who work in explosive atmospheres and covers the requirements of site entry and safe working practices for any classified hazardous area.</p> <p>People credited with this unit standard are able to:</p> <ul style="list-style-type: none"> <li>– prepare to enter and work in a classified hazardous area</li> <li>– comply with all safety instructions and procedures in a classified explosive atmosphere.</li> </ul>
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<b>Classification</b>	Explosive Atmospheres > Electrical Apparatus in Explosive Atmospheres - Compliance
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 This unit standard has been designed for training and assessment on-job or off-job in a simulated environment, which includes explosion-protected equipment and wiring systems similar to those encountered in a real workplace.
- 2 This unit standard is equivalent to *Enter a classified hazardous area to undertake work related to electrical equipment*, in the Australian/New Zealand Standard AS/NZS 4761.1 (version as cited in the Electricity (Safety) Regulations), *Competencies for working with electrical equipment for hazardous areas (EEHA)*.
- 3 Achievement of this unit standard alone does not entitle trainees to legally perform prescribed electrical work without supervision. Until registered and licensed under the Electricity Act 1992, trainees are assisting, and must work under supervision when carrying out prescribed electrical work.
- 4 References
  - AS/NZS 1768:2007, *Lightning protection*
  - AS/NZS 3000 (version as cited in the Electricity (Safety) Regulations) *Electrical installations (known as the Australian/New Zealand Wiring Rules)*
  - AS/NZS 4761.1 (version as cited in the Electricity (Safety) Regulations), *Competencies for working with electrical equipment for hazardous areas (EEHA) – Competency Standards*
  - AS/NZS 60079.14 (version as cited in the Electricity (Safety) Regulations), *Explosive atmospheres – Part 14: Electrical installations design, selection and erection*

- AS/NZS 60079.17 (version as cited in the Electricity (Safety) Regulations), *Explosive atmospheres – Part 17: Electrical installations inspection and maintenance*
- Electricity Act 1992
- Electricity (Safety) Regulations 2010
- Health and Safety at Work Act 2015, and associated regulations and their subsequent amendments and replacements.

## 5 Definitions

*Explosion-protected equipment* – electrical equipment to which one or more explosion-protection techniques are applied to avoid ignition of a surrounding explosive atmosphere.

*Explosion-protection techniques* – techniques applied to the design of electrical equipment, components, and systems to prevent electrical energy from becoming an ignition source in the presence of a surrounding explosive atmosphere.

*Explosive atmosphere* – mixture with air, under atmospheric conditions, of flammable substances in the form of gas, vapour, dust, fibres, or flyings which, after ignition, permits self-sustaining propagation.

*Hazardous area* – a three-dimensional region or space in which an explosive atmosphere is present, or may be expected to be present, in quantities such as to require special precautions for the construction, installation, and use of equipment.

*Safe and sound practice* – as it relates to the installation of electrical equipment is defined in AS/NZS 3000.

- 6 Assessment is to take account of variations between the industry sectors and enterprises. For example, equipment used in dust-explosive atmospheres will be different in some respects from that used in a petrochemical plant.

## 7 Range

- a Candidates must refer to current legislation and Standards during assessment.
- b Demonstration of safe working practices and installation in accordance with *safe and sound practice* are essential components of assessment of this unit standard.
- c All activities and evidence presented for all outcomes and performance criteria in this unit standard must be in accordance with:
  - i legislation
  - ii workplace policies and procedures
  - iii Standards – may include but are not limited to those listed in Schedule 2 of the Electricity (Safety) Regulations 2010
  - iv applicable site, enterprise, and industry practice
  - v manufacturers' instructions, specifications, and data sheets.

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## Outcomes and performance criteria

### Outcome 1

Prepare to enter and work in a classified hazardous area.

**Performance criteria**

- 1.1 Explain the need for specific safety, entry, and work procedures in terms of the properties of flammable substances and the nature of explosive atmospheres and explosion-protected electrical equipment.
- 1.2 Describe the responsibilities of owners and occupiers for the safety of the area.
- 1.3 Obtain site safety procedures in relation to the explosive atmosphere area from the person authorised to issue entry and clearance-to-work permits.
- 1.4 Explain site safety procedures in relation to the hazardous area.
- 1.5 Obtain permission from the authorised person to take particular devices and equipment into a hazardous area.
- 1.6 Obtain entry and clearance-to-work permits from the authorised person and read and explain requirements and limitations.

**Outcome 2**

Comply with all safety instructions and procedures in a classified explosive atmosphere.

**Performance criteria**

- 2.1 Comply with the requirements of site safety procedures including entry and clearance-to-work permits.
- 2.2 Comply with the requirements and limitations of the use of devices and equipment permitted to be taken into explosive atmospheres.
- 2.3 Comply with all instructions and signage related to the explosive atmosphere area.
- 2.4 Comply with emergency procedures and instructions.

<b>Planned review date</b>	31 December 2027
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**Status information and last date for assessment for superseded versions**

Process	Version	Date	Last Date for Assessment
Registration	1	16 March 2017	31 December 2025
Review	2	2 March 2023	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0003
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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**Comments on this unit standard**

Please contact Waihanga Ara Rau Construction and Infrastructure Workforce Development Council [qualifications@WaihangaAraRau.nz](mailto:qualifications@WaihangaAraRau.nz) if you wish to suggest changes to the content of this unit standard.