

**Field      Engineering and Technology**

**Review of *Explosive Atmospheres* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>ID</b>
Explosive Atmospheres	Electrical Apparatus in Explosive Atmospheres - Compliance	17055, 17068, 17069, 17074, 24980, 24981, 24985, 30068, 30070, 30071
	Electrical Apparatus in Explosive Atmospheres - Operations	17054, 17056, 17058, 17059, 17070-17073, 24976-24979, 24982-24984, 24986, 24987, 26739-26743, 30069

Waihanga Ara Rau Workforce Development Council (WDC) has completed the review of the unit standards listed above.

**Date new versions published**

**February 2023**

**Planned review date**

**December 2027**

**Summary**

Waihanga Ara Rau Construction and Infrastructure WDC identified a group of unit standards due for review. Stakeholders were consulted by email and through the Waihanga Ara Rau website, and feedback was discussed by a technical advisory group.

Some unit standards, although they had no or low usage in the previous five years, were identified as useful to industry. These were maintained for potential use in micro-credentials.

**Main changes**

- The standard setting body was changed to Waihanga Ara Rau Construction and Infrastructure WDC.
- Guidance information was updated to align with current legislation, published Standards, or to the current version of the Electricity (Safety) Regulations where appropriate.
- The credit values for unit standards 17056, 17058, 17059, 26739, and 26741 were reduced to better reflect the notional learning hours.
- Thirteen unit standards were designated expiring due to low usage.

**The last date for assessment of superseded versions of Category B unit standards is December 2025**

**Category D unit standards will expire at the end of December 2024**

**Detailed list of unit standards – classification, title, level, and credits**

All changes are in **bold**.

Engineering and Technology > Explosive Atmospheres > Electrical Apparatus in Explosive Atmospheres - Compliance

ID	Title	Level	Credit	Review Category
17055	Manage compliance of explosive atmospheres	5	3	B
17068	Conduct a conformity assessment of explosion-protected apparatus	6	9	B
17069	Classify hazardous areas	6	4	B
17074	Conduct visual and close inspection of electrical installations for explosive atmospheres	4	3	B
24980	Perform compliance audits of explosive atmospheres and the related electrical installation	6	3	D
24981	Assess the fitness-for-purpose of explosive atmospheres legacy explosion-protected apparatus	6	8	D
24985	Verify compliance of repaired reeling, trailing, and flexible electrical cables	4	1	D
30068	Enter classified explosive atmosphere areas to undertake work	3	2	B
30070	Manage continuous supervision inspection associated with explosive atmospheres	6	5	B
30071	Conduct detailed inspection of electrical installations for explosive atmospheres	5	5	B

Engineering and Technology > Explosive Atmospheres > Electrical Apparatus in Explosive Atmospheres - Operations

ID	Title	Level	Credit	Review Category
17054	Report on the integrity of explosion-protected electrical apparatus in explosive atmospheres	3	3	B
17056	Install explosion-protected equipment and associated equipment and wiring systems	4	9 6	B
17058	Maintain electrical equipment associated with explosive atmospheres	4	9 6	B
17059	Attend to breakdowns in explosive atmospheres	4	9 7	B
17070	Develop and manage electrical inspection and maintenance programmes for explosive atmospheres	5	8	D
17071	Plan electrical installations for explosive atmospheres	5	8	D
17072	Design explosion-protected electrical systems and installations	6	12	D
17073	Conduct testing of electrical apparatus in explosive atmospheres installations	4	4	B
24976	Use and maintain the integrity of portable gas detection devices in hazardous areas	4	2	B
24977	Install fixed gas detection apparatus in hazardous areas	4	2	B
24978	Design gas detection systems and installations for hazardous areas	6	8	D
24979	Carry out overhaul and repair of explosion-protected apparatus	4	2	D
24982	Repair reeling, trailing, and flexible electrical cables	4	2	D

24983	Test reeling, trailing, and flexible electrical cables	4	1	D
24984	Inspect and fit plugs/couplers for reeling, trailing, and flexible electrical cables	4	1	D
24986	Disconnect and reconnect explosion-protected apparatus connected to low voltage supply	4	2	D
24987	Establish, arrange and verify overhaul and repair of explosion-protected apparatus	5	5	D
26739	Demonstrate introductory underpinning knowledge of electrical equipment in explosive atmospheres	4	7 5	B
26740	Demonstrate and apply intermediate underpinning knowledge of electrical equipment in explosive atmospheres	4	5	B
26741	Demonstrate underpinning knowledge of gas detection equipment in explosive atmospheres	4	6 5	B
26742	Demonstrate underpinning knowledge of permanently installed gas detection apparatus in explosive atmospheres	4	4	B
26743	Response check, calibrate, and maintain fixed gas detection apparatus in hazardous areas	4	1	B
30069	Determine the explosion-protection requirements specified for classified explosive atmospheres	4	5	B