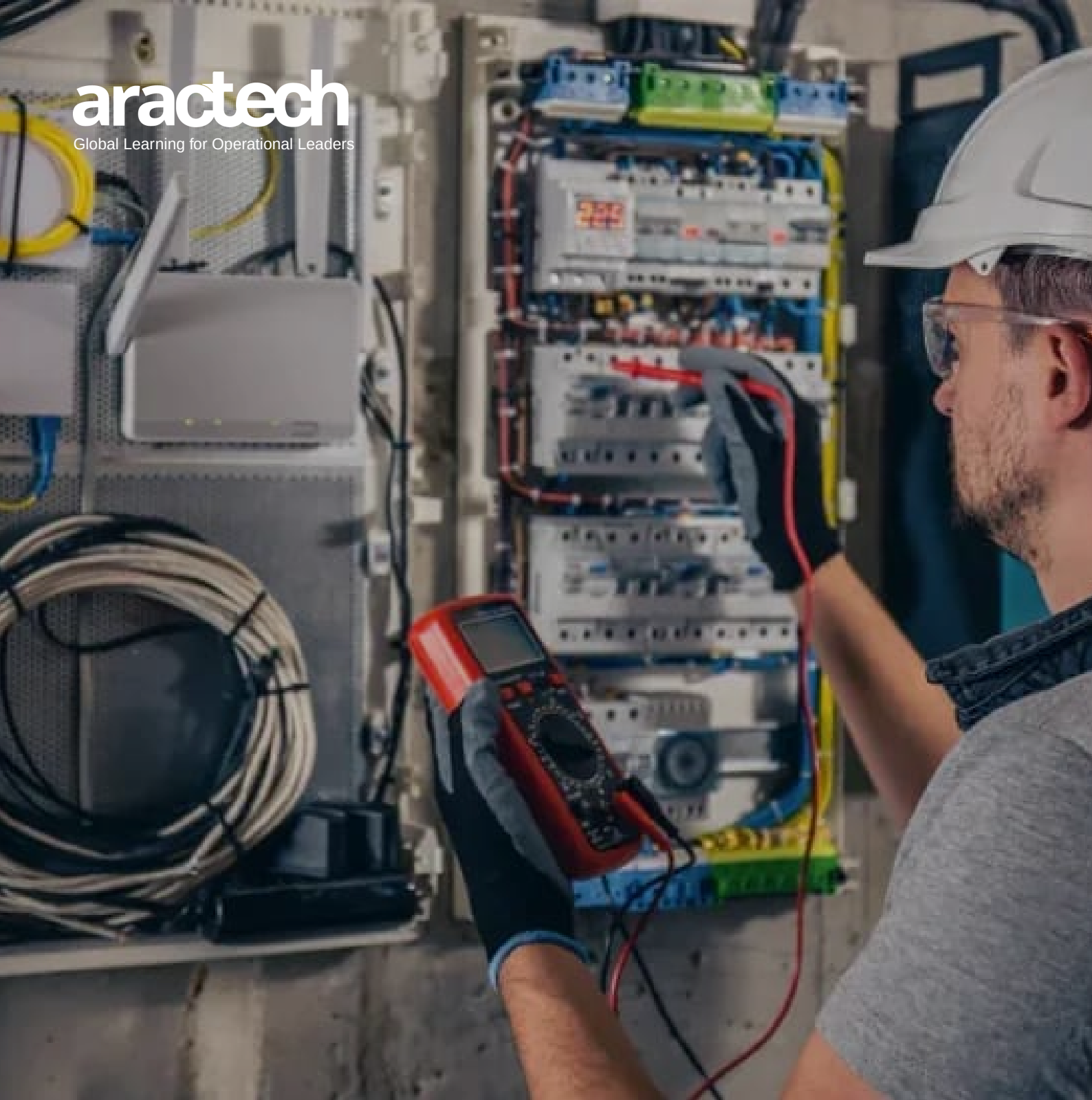




HEALTH SAFETY AND ENVIRONMENT | HSE-031

Electrical Equipment in Hazardous Areas (ATEX and IECEx)

Contact

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Course content

Why Attend

In oil, gas, chemical and other industries, flammable gases, vapours and dusts create explosive atmospheres. Electrical equipment in these areas must be designed, installed, inspected and maintained to strict standards.

This Aractech course explains hazardous area classification, protection concepts, equipment marking and certification under ATEX and IECEx, selection and installation, inspection and maintenance, and management of hazardous area compliance. It is an awareness and management course, not a competency certification.

Course Methodology

- Technical presentations
- Classification exercises
- Marking interpretation
- Case studies
- Group discussions

Course Objectives

- Explain explosive atmospheres and ignition sources
- Understand hazardous area classification
- Describe equipment protection concepts
- Interpret equipment marking and certification
- Understand installation, inspection and maintenance requirements
- Manage hazardous area compliance

Target Audience

- Electrical and instrumentation engineers

Course content

- Maintenance supervisors
- HSE professionals
- Project engineers

Course outline

Detailed course outline

Day-by-day outline for Electrical Equipment in Hazardous Areas (ATEX and IECEx).

Day 1 - Explosive Atmospheres

- 09:00-09:39 | Fire and explosion basics
- 09:39-10:18 | Gases, vapours and dusts
- 10:18-10:57 | Ignition sources
- 10:57-11:00 | Legal frameworks
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Legal frameworks (continued)
- 12:05-12:43 | Incident lessons
- 12:43-14:00 | Case study: Explosion incident

Day 2 - Area Classification

- 09:00-09:39 | Zones
- 09:39-10:18 | Classification methods
- 10:18-10:57 | Documentation
- 10:57-11:00 | Gas groups and temperature classes
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Gas groups and temperature classes (continued)
- 12:05-12:43 | Dust areas
- 12:43-14:00 | Workshop: Area classification

Course outline

Detailed course outline

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Day 3 - Protection Concepts

- 09:00-09:39 | Flameproof
- 09:39-10:18 | Increased safety
- 10:18-10:57 | Intrinsic safety
- 10:57-11:00 | Pressurisation and others
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Pressurisation and others (continued)
- 12:05-12:43 | Selection
- 12:43-14:00 | Exercise: Selecting equipment

Day 4 - Marking, Certification and Installation

- 09:00-09:39 | ATEX and IECEx schemes
- 09:39-10:18 | Equipment marking
- 10:18-10:57 | Installation requirements
- 10:57-11:00 | Cable glands
- 11:00-11:30 | Coffee break
- 11:30-12:05 | Cable glands (continued)
- 12:05-12:43 | Documentation
- 12:43-14:00 | Exercise: Reading markings

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Detailed course outline

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Day 5 - Inspection and Management

- 09:00-09:45 | Inspection types
- 09:45-10:30 | Maintenance and repair
- 10:30-11:00 | Competence
- 11:00-11:30 | Coffee break
- 11:30-11:45 | Competence (continued)
- 11:45-12:30 | Records
- 12:30-13:15 | Audits
- 13:15-14:00 | Capstone: Hazardous area management plan

Seminar dates

Available seminar dates

Live dates and pricing for Electrical Equipment in Hazardous Areas (ATEX and IECEx) generated from the course details page.

Date	Location	Format	Fee
2 - 6 November 2026	Amsterdam	Classroom	€2,830
21 - 25 December 2026	London	Classroom	€2,315
18 - 22 January 2027	Istanbul	Classroom	€1,978
15 - 19 February 2027	Paris	Classroom	€3,825
15 - 19 March 2027	Istanbul	Classroom	€1,978
19 - 23 April 2027	Kuala lumpur	Classroom	€1,925
17 - 21 May 2027	Rome	Classroom	€3,460
21 - 25 June 2027	Munich	Classroom	€3,225
19 - 23 July 2027	Amsterdam	Classroom	€2,830
16 - 20 August 2027	London	Classroom	€2,315

Seminar dates

Available seminar dates

Live dates and pricing for Electrical Equipment in Hazardous Areas (ATEX and IECEx) generated from the course details page.

Date	Location	Format	Fee
20 - 24 September 2027	Munich	Classroom	€3,225
18 - 22 October 2027	Paris	Classroom	€3,825
15 - 19 November 2027	Rome	Classroom	€3,460
20 - 24 December 2027	Kuala Lumpur	Classroom	€1,925
2 - 6 November 2026	Online / Live	Online / Live	€1,815
21 - 25 December 2026	Online / Live	Online / Live	€1,815
18 - 22 January 2027	Online / Live	Online / Live	€1,815
15 - 19 February 2027	Online / Live	Online / Live	€1,815
15 - 19 March 2027	Online / Live	Online / Live	€1,815
19 - 23 April 2027	Online / Live	Online / Live	€1,815

Seminar dates

Available seminar dates

Live dates and pricing for Electrical Equipment in Hazardous Areas (ATEX and IECEx) generated from the course details page.

Date	Location	Format	Fee
17 - 21 May 2027	Online / Live	Online / Live	€1,815
21 - 25 June 2027	Online / Live	Online / Live	€1,815
19 - 23 July 2027	Online / Live	Online / Live	€1,815
16 - 20 August 2027	Online / Live	Online / Live	€1,815
20 - 24 September 2027	Online / Live	Online / Live	€1,815
18 - 22 October 2027	Online / Live	Online / Live	€1,815
15 - 19 November 2027	Online / Live	Online / Live	€1,815
20 - 24 December 2027	Online / Live	Online / Live	€1,815