



POWER AND ELECTRICAL TRAINING

Hazardous Area Classification in Industrial Plant

5 day course

Classroom, online or in-house

Course overview

Where a flammable atmosphere may be present, the equipment installed must be selected on the basis of a classification somebody produced and documented. This course covers producing and using it. Delegates work through the basis of classification, source of release identification and grading, and zone determination including the extent of a zone and the ventilation that changes it. Equipment protection concepts are covered against the zones they may be installed in, along with temperature classification and gas grouping. Certification, marking and the verification of an installed system follow, and the course closes on inspection regimes and on maintaining classification through modification.

What you will learn

- Explain the basis of hazardous area classification
- Identify and grade sources of release
- Determine zones and their extent, including ventilation effects
- Select equipment protection concepts appropriate to a zone
- Apply temperature classification and gas grouping
- Read certification and equipment marking correctly
- Verify an installation and maintain classification through modification

Who should attend

- Electrical and instrumentation engineers
- Process safety and HSE professionals
- Maintenance and inspection staff
- Design and project engineers
- Contractors working in classified areas

Course outline

- 01 Why classification exists and what it governs
- 02 Sources of release and their grading
- 03 Zone determination and extent
- 04 Ventilation and its effect on classification
- 05 Equipment protection concepts
- 06 Temperature classification and gas grouping
- 07 Certification, marking and documentation
- 08 Verification, inspection and modification

Upcoming dates

Dates	Venue	Format	Fee per delegate
19 to 23 October 2026	Lagos, Nigeria	Classroom	USD 1,325
14 to 18 December 2026	Online	Online	R8,500
11 to 15 January 2027	Johannesburg, South Africa	Classroom	R19,950
15 to 19 February 2027	Durban, South Africa	Classroom	R19,950



Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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