Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

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COURSE BROCHURE

Hazardous Area Classification

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0444 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to identify, classify, and manage hazardous areas in industrial and processing environments. It covers the principles of hazardous area classification, relevant regulations, and practical measures to mitigate risks, ensuring compliance with South African health and safety standards.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0444
Accreditation	SAQA Accredited · NQF Level 5 · 4 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS — verifiable online

LEARNING OUTCOMES

- Apply the principles of hazardous area classification to identify and categorize hazardous zones.
- Analyze the properties of flammable substances and their ignition characteristics to determine risk levels.
- Evaluate the requirements of relevant legislation and standards, including SANS 10108 and the Occupational Health and Safety Act.
- Design appropriate control measures and equipment selection for different hazardous area zones.
- Implement a hazardous area classification plan and conduct risk assessments in line with industry best practices.
- Demonstrate compliance with safety protocols and documentation requirements for hazardous areas.

WHO SHOULD ATTEND

- This course is designed for engineers, safety officers, maintenance personnel, and managers working in industries where flammable gases, vapors, or dusts are present, such as chemical, petrochemical, mining, and manufacturing sectors.

COURSE OUTLINE

Day 1: **Fundamentals of Hazardous Area Classification**

- Introduction to hazardous areas: definitions, examples, and risks.
- Properties of flammable gases, vapours, liquids, and dusts.
- Sources of release and ventilation.
- Zoning: Zone 0, 1, 2 for gases and vapours; Zone 20, 21, 22 for dusts.
- Gas and dust groups: I, IIA, IIB, IIC, IIIA, IIIB, IIIC.
- Temperature classes and auto-ignition temperatures.
- Overview of relevant standards: SANS 10108, IEC 60079-10-1, IEC 60079-10-2.
- Legal and regulatory framework in South Africa: OHS Act and regulations.

Day 2: **Application and Practical Integration**

- Step-by-step area classification process.
- Estimating zone extent for gas and dust hazards.
- Classification of hybrid mixtures and changing conditions.
- Documentation: area classification drawings, schedules, and reports.
- Relationship between classification and equipment selection (Ex d, Ex e, Ex i, etc.).
- Marking and labelling of equipment.
- Case studies: petrochemical plants, fuel depots, food processing, mining.
- Common errors and how to avoid them.

ASSESSMENT & CERTIFICATION

Delegates are assessed through exercises and a final test. A mark of **50% or above** earns an **AATICD Certificate of Completion**, issued digitally with a unique verification code. This course carries **4 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 11,900.00	**R 11,900.00**
1	In-House	R 16,100.00	**R 16,100.00**
1	On-Campus (Pretoria)	R 17,800.00	**R 17,800.00**

UPCOMING SESSIONS

Start	End	Method	Venue
01 Dec 2026	02 Dec 2026	On-Campus	Shenzhen, China
01 Dec 2026	02 Dec 2026	On-Campus	Lagos, Nigeria
02 Dec 2026	03 Dec 2026	On-Campus	Durban, South Africa
03 Dec 2026	04 Dec 2026	On-Campus	Dubai, UAE
07 Dec 2026	08 Dec 2026	On-Campus	Maseru, Lesotho
07 Dec 2026	08 Dec 2026	On-Campus	Kigali, Rwanda
07 Dec 2026	08 Dec 2026	On-Campus	Accra, Ghana
07 Dec 2026	08 Dec 2026	On-Campus	Cape Town, South Africa

Contact us if no suitable date is listed — on-demand sessions can be arranged for groups.

HOW TO GET A QUOTATION OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard AATICD-0444) and click **Get A Quotation**. Select your training method and number of delegates — your quotation is generated immediately and emailed to you with the course brochure attached.
2. **Apply by email:** send the course title, your preferred training method (Online, In-House or On-Campus Pretoria), the number of delegates and your preferred dates to **apply@aaticd.co.za** — our team will reply with a formal quotation.
3. **Apply by phone or WhatsApp:** call **+27 12 004 8389** or WhatsApp **+27 65 077 6310** and we will prepare your quotation and reserve your seats.
4. **Confirm your booking:** accept the quotation and settle the invoice. As soon as payment is confirmed your delegates are enrolled and receive their AATICD LMS login details by email, along with joining instructions for their chosen training method.

Group discounts apply automatically — the more delegates you enrol, the lower the price per delegate. No payment is required to request a quotation.

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