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

Energy Risk Assessment

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0552 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to identify, assess, and manage energy-related risks in the workplace. It covers the principles of energy risk assessment, the hierarchy of controls, and the development of risk mitigation strategies, enabling participants to contribute to a safer working environment.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0552
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 energy risk assessment to identify potential hazards associated with electrical, mechanical, thermal, chemical, and other energy sources.
- Analyze the risk assessment process, including hazard identification, risk analysis, and risk evaluation, in the context of energy-related operations.
- Evaluate the effectiveness of existing control measures and recommend improvements based on the hierarchy of controls.
- Design a comprehensive energy risk assessment plan for a specific workplace scenario.
- Implement risk mitigation strategies and monitor their effectiveness in reducing energy-related incidents.
- Demonstrate the ability to document and communicate risk assessment findings to relevant stakeholders.

WHO SHOULD ATTEND

- This course is designed for health and safety officers, risk managers, supervisors, and any personnel responsible for conducting risk assessments in environments where energy sources are present.

COURSE OUTLINE

Day 1: **Fundamentals of Energy Risk Assessment**

- Introduction to energy risk: definitions, types (electrical, thermal, mechanical, chemical
- The energy risk assessment process: hazard identification, risk analysis, risk evaluation
- Legislative framework: OHS Act, regulations, and SANS standards
- Overview of risk assessment methodologies (e.g., HAZOP, What-If, Checklist
- Energy hazard identification techniques
- Introduction to risk matrices and risk scoring
- Case studies of energy-related incidents
- Documentation and reporting of risk assessments

Day 2: **Advanced Energy Risk Assessment and Control**

- Quantitative risk assessment (QRA) and fault tree analysis
- Bowtie analysis for energy risk management
- Human factors in energy risk
- Hierarchy of controls and risk reduction strategies
- Emergency preparedness and response planning
- Monitoring, review, and continuous improvement of risk controls
- Integrating energy risk assessment with ISO 31000 and ISO 45001
- Communicating risk assessment findings to stakeholders
- Practical exercise: complete a full energy risk assessment for a case study scenario

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-0552) 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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