



Accredited Africa Training Institute for Capacity Development

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

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Safety Principles for Non-Electrical and Non-Mechanical Energy Sources

Health Sciences and Social Services / Preventive Health

Unit Standard 244282 · NQF Level 5 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to monitor, report, and advise on safety principles applicable to non-electrical and non-mechanical sources of energy, such as thermal, chemical, kinetic, potential, and radiation energy. Participants will learn to identify hazards, assess risks, and implement control measures to ensure a safe working environment in compliance with South African health and safety legislation.

Category	Health Sciences and Social Services
Subfield	Preventive Health
Unit Standard	244282
Accreditation	SAQA Accredited · NQF Level 5 · 5 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply safety principles to identify and assess hazards associated with non-electrical and non-mechanical energy sources.
- Monitor compliance with relevant health and safety legislation and organizational procedures regarding energy sources.
- Evaluate the effectiveness of control measures for non-electrical and non-mechanical energy hazards.
- Implement risk assessment methodologies to analyze potential energy-related incidents.
- Demonstrate the ability to report and advise on safety measures for non-electrical and non-mechanical energy sources.
- Design corrective actions to mitigate risks from thermal, chemical, kinetic, potential, and radiation energy.

WHO SHOULD ATTEND

- This course is designed for health and safety officers, risk assessors, supervisors, and any personnel responsible for workplace safety who need to manage non-electrical and non-mechanical energy sources.

COURSE OUTLINE

Day 1: Introduction to Non-Electrical and Non-Mechanical Energy Sources and Their Hazards

- Overview of energy sources: thermal, chemical, kinetic, potential, radiant, and others.
- Hazard identification: energy source mapping and risk assessment.
- Energy isolation principles: lockout/tagout for non-electrical energy.
- Control measures: engineering controls, administrative controls, PPE.
- Legal framework: OHS Act, regulations, and standards relevant to energy safety.
- Case studies: incidents involving non-electrical/non-mechanical energy.
- Safe work procedures: permits, signage, and communication.
- Group activity: hazard identification exercise.

Day 2: Practical Application and Integration of Safety Principles

- Practical session: energy isolation and lockout/tagout for hydraulic, pneumatic, and thermal systems.
- Risk assessment workshop: job safety analysis (JSA) for non-electrical energy tasks.
- Emergency response: first aid for burns, chemical exposure, and kinetic energy injuries.
- Maintenance and inspection of energy control devices.
- Behavioural safety: human factors and energy safety culture.
- Review and assessment: written test and practical demonstration.
- Action planning: developing personal safety checklists.

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 **5 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 16,200.00	R 16,200.00
1	In-House	R 21,000.00	R 21,000.00
1	On-Campus (Pretoria)	R 24,300.00	R 24,300.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	11 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	11 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	11 Aug 2026	On-Campus	Mauritius
12 Aug 2026	13 Aug 2026	On-Campus	Cape Town, South Africa
12 Aug 2026	13 Aug 2026	On-Campus	Pretoria, South Africa
12 Aug 2026	13 Aug 2026	On-Campus	Durban, South Africa
18 Aug 2026	19 Aug 2026	On-Campus	Shenzhen, China
18 Aug 2026	19 Aug 2026	On-Campus	Abu Dhabi, UAE

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

HOW TO GET A QUOTE OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard 244282) and click **Get A Quote / Apply**. 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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