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

LNG Operations

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0446 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the fundamental knowledge and practical skills required to operate and manage LNG (Liquefied Natural Gas) facilities safely and efficiently. It covers the entire LNG value chain, from production and storage to transportation and regasification, with a strong emphasis on safety protocols, risk assessment, and regulatory compliance. Learners will gain the confidence to handle LNG operations in line with international standards and South African regulations.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0446
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 LNG production, storage, and transportation to operational scenarios.
- Analyze the physical and chemical properties of LNG and their implications for safe handling.
- Evaluate potential hazards and risks associated with LNG operations and implement appropriate control measures.
- Design emergency response plans for LNG incidents, including spill containment and firefighting.
- Demonstrate compliance with relevant South African and international regulations governing LNG operations.
- Implement best practices for the maintenance and inspection of LNG equipment and facilities.

WHO SHOULD ATTEND

- This course is designed for technicians, operators, and supervisors working in the LNG industry, as well as professionals in related fields such as energy, engineering, and logistics who wish to broaden their understanding of LNG operations.

COURSE OUTLINE

Day 1: LNG Fundamentals and Safety

- Introduction to LNG: properties, composition, and production.
- LNG value chain: liquefaction, shipping, regasification, and distribution.
- Overview of LNG terminal and plant components.
- Cryogenic fundamentals: boiling point, density, and phase behaviour.
- LNG storage systems: tanks, insulation, and containment.
- Safety hazards: asphyxiation, cold burns, fire, explosion, and rollover.
- Regulatory framework: SA legislation, international codes, and standards.
- Emergency response: leak detection, isolation, and evacuation.

Day 2: LNG Operations, Maintenance, and Incident Prevention

- LNG transfer operations: ship-to-shore, truck loading, and pipeline transfer.
- Process control: instrumentation, valves, and safety interlocks.
- Operational procedures: start-up, normal operation, and shutdown.
- Inspection and maintenance: tanks, pumps, vaporisers, and pipelines.
- Hazard identification: HAZID, HAZOP, and risk assessment.
- Incident prevention: safety case, permit-to-work, and management of change.
- Emergency response planning: drills, communication, and coordination.
- Case studies: lessons learned from LNG incidents.

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	Dubai, UAE
02 Dec 2026	03 Dec 2026	On-Campus	Victoria Falls, Zimbabwe
02 Dec 2026	03 Dec 2026	On-Campus	Cape Town, South Africa
03 Dec 2026	04 Dec 2026	On-Campus	Shenzhen, China
03 Dec 2026	04 Dec 2026	On-Campus	Lagos, Nigeria
09 Dec 2026	10 Dec 2026	On-Campus	Maseru, Lesotho
09 Dec 2026	10 Dec 2026	On-Campus	Kigali, Rwanda
09 Dec 2026	10 Dec 2026	On-Campus	Accra, Ghana

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-0446) 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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