



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

LPG Bulk Storage Operations

Custom Courses / Liquefied Petroleum Gas

Unit Standard AATICD-0361 · NQF Level 5 · 8 Credits · 4 Days

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills required for the safe and efficient bulk storage of LPG (Liquefied Petroleum Gas). It covers the principles of LPG properties, storage system design, operational procedures, and emergency response, ensuring compliance with South African regulations and industry best practices.

Category	Custom Courses
Subfield	Liquefied Petroleum Gas
Unit Standard	AATICD-0361
Accreditation	SAQA Accredited · NQF Level 5 · 8 Credits
Duration	4 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply the physical and chemical properties of LPG to ensure safe handling and storage.
- Analyze the design and construction requirements of bulk storage vessels and associated equipment.
- Implement safe operational procedures for filling, transferring, and monitoring LPG bulk storage systems.
- Evaluate potential hazards and risks associated with LPG bulk storage and implement control measures.
- Demonstrate emergency response procedures, including leak detection, evacuation, and incident containment.
- Ensure compliance with relevant South African legislation, standards, and codes of practice for LPG bulk storage.

WHO SHOULD ATTEND

- This course is designed for operators, supervisors, and safety officers involved in the handling, storage, and distribution of LPG in bulk facilities.
- It is also suitable for maintenance personnel and emergency responders who require a thorough understanding of LPG bulk storage operations.

COURSE OUTLINE

Day 1: Introduction to LPG and Bulk Storage Fundamentals

- LPG properties: vapour pressure, flammability, odourisation
- Bulk storage system overview: tanks, valves, piping, safety devices
- Relevant legislation: SANS 10087, OHS Act, Major Hazard Installation regulations
- Tank types, construction standards, and capacity ratings
- Safety features: pressure relief valves, excess flow valves, level gauges
- Siting and spacing requirements for bulk tanks
- Overview of risk assessment and hazard identification

Day 2: Filling Operations and Transfer Procedures

- Pre-transfer inspections: tank, piping, and equipment checks
- Filling procedures: static earthing, hose connections, and leak testing
- Transfer methods: pump-based, compressor-based, and gravity
- Use of mass flow meters, level gauges, and temperature compensation
- Safety interlocks and emergency shutdown systems
- Documentation: delivery notes, batch records, and stock reconciliation
- Common transfer hazards and mitigation measures

Day 3: Storage Tank Inspection, Maintenance, and Safety Systems

- Inspection frequencies and methods: visual, ultrasonic, and thickness testing
- Maintenance procedures for valves, gauges, and fittings
- Testing of pressure relief valves and emergency shut-off valves
- Corrosion prevention: coatings, cathodic protection, and internal linings
- Leak detection methods: gas detectors, soap tests, and electronic monitoring
- Confined space entry procedures and permits
- Record keeping and compliance with SANS 10087

Day 4: Emergency Response, Risk Management, and Operational Excellence

- Emergency planning: fire, gas leak, and evacuation procedures
- Fire-fighting techniques and equipment for LPG fires
- Incident command structure and coordination with emergency services
- Risk assessment methodologies: HAZOP, fault tree analysis, and bow-tie analysis
- Safety management systems: policies, audits, and continual improvement
- Operational best practices: housekeeping, training, and communication
- Case studies of LPG incidents and lessons learned

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

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 15,800.00	R 15,800.00
1	In-House	R 20,500.00	R 20,500.00
1	On-Campus (Pretoria)	R 23,600.00	R 23,600.00

UPCOMING SESSIONS

Start	End	Method	Venue
05 Oct 2026	08 Oct 2026	On-Campus	Mbabane, Eswatini
05 Oct 2026	08 Oct 2026	On-Campus	Windhoek, Namibia
05 Oct 2026	08 Oct 2026	On-Campus	Lusaka, Zambia
06 Oct 2026	09 Oct 2026	On-Campus	Bangkok, Thailand
06 Oct 2026	09 Oct 2026	Online	—
06 Oct 2026	09 Oct 2026	On-Campus	Nairobi, Kenya
06 Oct 2026	09 Oct 2026	On-Campus	Kigali, Rwanda
12 Oct 2026	15 Oct 2026	On-Campus	Kampala, Uganda

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 AATICD-0361) 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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