



## 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

# Liquid Petroleum Gas Systems Operation For Fossil Power Plants Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 114459 · NQF Level 3 · 1 Credits · 1 Day

## COURSE OVERVIEW

This course equips participants with the knowledge and skills to safely operate liquid petroleum gas (LPG) systems within fossil power plant environments. It covers system components, operational procedures, hazard identification, and emergency response, ensuring compliance with South African health and safety regulations.

|                 |                                           |
|-----------------|-------------------------------------------|
| Category        | Manufacturing, Engineering and Technology |
| Subfield        | Manufacturing and Assembly                |
| Unit Standard   | 114459                                    |
| Accreditation   | SAQA Accredited · NQF Level 3 · 1 Credits |
| Duration        | 1 day                                     |
| Training Method | Online, On-Campus, In-House               |
| Certificate     | Issued via AATICD LMS – verifiable online |

## LEARNING OUTCOMES

- Apply safe operating procedures for LPG systems in fossil power plants.
- Analyze LPG system components and their functions to ensure efficient operation.
- Evaluate potential hazards and implement appropriate control measures.
- Demonstrate emergency response procedures for LPG leaks and fires.
- Implement maintenance schedules and inspection protocols for LPG systems.
- Comply with relevant South African legislation and industry standards.

## WHO SHOULD ATTEND

- The course is designed for power plant operators, maintenance technicians, and engineers responsible for the operation and maintenance of LPG systems in fossil fuel power plants.

## COURSE OUTLINE

### Day 1: Introduction to LPG Systems in Fossil Power Plants

- Properties of LPG: composition, vapour pressure, flammability limits, and odourisation.
- Overview of LPG system components: storage tanks, vaporisers, pressure regulators, piping, and safety valves.
- Operation principles: flow from storage to vaporiser, pressure control, and gas supply to burners.
- Safety regulations: SANS 10087 series, OHS Act, and permit-to-work systems.
- Emergency procedures: leak detection, gas alarms, isolation, and fire suppression.
- Practical exercise: system walk-down, identification of components, and start-up sequence.
- Environmental considerations: emission control and spill containment.
- Assessment: written test and practical demonstration.

## 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 **1 NQF credits** at **NQF Level 3**.

## PRICING (PER DELEGATE, EX-VAT)

| Delegates | Training Method      | Price per Delegate | Total       |
|-----------|----------------------|--------------------|-------------|
| 1         | Online               | R 12,800.00        | R 12,800.00 |
| 1         | In-House             | R 16,600.00        | R 16,600.00 |
| 1         | On-Campus (Pretoria) | R 19,200.00        | R 19,200.00 |

## UPCOMING SESSIONS

| Start       | End         | Method    | Venue                      |
|-------------|-------------|-----------|----------------------------|
| 04 Aug 2026 | 04 Aug 2026 | On-Campus | Johannesburg, South Africa |
| 05 Aug 2026 | 05 Aug 2026 | On-Campus | Mauritius                  |
| 06 Aug 2026 | 06 Aug 2026 | On-Campus | Cape Town, South Africa    |
| 07 Aug 2026 | 07 Aug 2026 | On-Campus | Dubai, UAE                 |
| 10 Aug 2026 | 10 Aug 2026 | On-Campus | Abu Dhabi, UAE             |
| 11 Aug 2026 | 11 Aug 2026 | On-Campus | Durban, South Africa       |
| 11 Aug 2026 | 11 Aug 2026 | On-Campus | Mauritius                  |
| 12 Aug 2026 | 12 Aug 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 QUOTE OR APPLY

1. **Get an instant quotation online:** visit [www.aaticd.co.za](http://www.aaticd.co.za), open the page for this course (Unit Standard 114459) 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](mailto: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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