



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

Fuel Pump Technician Training

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0157 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips technicians with the skills to diagnose, service, and repair fuel pump systems in modern vehicles. It covers mechanical and electronic fuel injection systems, safety protocols, and diagnostic procedures to ensure efficient and reliable fuel delivery.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0157
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate safe working practices when handling fuel systems and components.
- Diagnose faults in mechanical and electronic fuel pump systems using appropriate tools.
- Remove, inspect, and replace fuel pumps and associated components according to manufacturer specifications.
- Test fuel pressure, flow, and system integrity to verify proper operation.
- Interpret wiring diagrams and technical data to troubleshoot electronic fuel pump circuits.
- Apply knowledge of fuel system theory to perform effective repairs and adjustments.

WHO SHOULD ATTEND

- Automotive technicians and mechanics seeking to specialize in fuel pump systems.
- Ideal for those with basic automotive knowledge who want to advance their diagnostic and repair skills.

COURSE OUTLINE

Day 1: Introduction to Fuel Pump Systems and Safety

- Overview of fuel pump types (mechanical, electric, in-tank, inline)
- Fuel system architecture: tank, lines, filter, pump, injectors
- Safety procedures: fuel handling, fire prevention, PPE, lockout/tagout
- Introduction to wiring diagrams and service manuals
- Basic electrical principles: voltage, current, resistance in fuel circuits

Day 2: Fuel Pump Diagnosis and Testing

- Symptoms of fuel pump failure: no start, hesitation, stalling
- Fuel pressure testing procedures and specifications
- Volume testing and fuel delivery rate assessment
- Electrical testing: voltage drop, current draw, relay and fuse checks
- Scan tool usage: live data, DTCs, and fuel trim analysis

Day 3: Fuel Pump Removal and Replacement

- Fuel system depressurization methods
- In-tank pump access: rear seat, trunk, or under-vehicle
- Inline pump replacement techniques
- Component inspection: filters, strainers, anti-drain valves
- Proper handling of electrical connectors and fuel lines
- Torque specifications and sealing procedures

Day 4: Advanced Fuel Pump Systems and Electronic Control

- Pulse-width modulation (PWM) and fuel pressure regulation
- Fuel pump control modules (FPCM) and driver circuits
- CAN bus communication for fuel delivery systems
- Waveform analysis using oscilloscope
- Advanced diagnostics for intermittent failures
- System integration with evaporative emissions (EVAP)

Day 5: Practical Integration and Final Assessment

- Comprehensive case studies: multiple fault scenarios
- Step-by-step diagnostic workflow from complaint to repair
- Quality checks: post-repair pressure, leak, and noise verification
- Final practical assessment: live vehicle or simulator
- Written test covering theory, safety, and procedures
- Course review and feedback

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

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 24,200.00	R 24,200.00
1	In-House	R 31,400.00	R 31,400.00
1	On-Campus (Pretoria)	R 36,200.00	R 36,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Harare, Zimbabwe
17 Aug 2026	21 Aug 2026	On-Campus	Shenzhen, China
24 Aug 2026	28 Aug 2026	On-Campus	Bangkok, Thailand
24 Aug 2026	28 Aug 2026	On-Campus	Victoria Falls, Zimbabwe
31 Aug 2026	04 Sep 2026	On-Campus	Lusaka, Zambia
31 Aug 2026	04 Sep 2026	On-Campus	London, UK

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-0157) 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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