



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

Diesel Engine Maintenance for Emergency Plant Operations

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 253357 · NQF Level 4 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to perform routine maintenance and inspections on diesel engines used for emergency plant operations. It ensures that emergency power systems remain reliable and compliant with safety standards, minimizing downtime during critical situations.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	253357
Accreditation	SAQA Accredited · NQF Level 4 · 5 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply safety procedures and regulations when performing maintenance on diesel engines.
- Demonstrate the ability to conduct routine inspections and identify potential faults.
- Perform scheduled maintenance tasks such as oil changes, filter replacements, and belt adjustments.
- Analyze engine performance data to determine maintenance needs.
- Evaluate the condition of engine components and recommend corrective actions.
- Implement record-keeping procedures for maintenance logs and inspection reports.

WHO SHOULD ATTEND

- This course is designed for maintenance technicians, plant operators, and facilities engineers responsible for the upkeep of diesel generators and emergency power systems in industrial or commercial settings.

COURSE OUTLINE

Day 1: Diesel Engine Fundamentals and Pre-Operational Checks

- Diesel engine construction: cylinder block, pistons, crankshaft, valves.
- Four-stroke cycle: intake, compression, power, exhaust.
- Fuel system: injection pump, injectors, filters.
- Lubrication system: oil pump, filters, grades.
- Cooling system: radiator, water pump, thermostat.
- Pre-start checks: oil level, coolant level, fuel level, battery condition.
- Routine inspection: belts, hoses, leaks, warning lights.
- Fault recognition: smoke colour, unusual noises, vibration.

Day 2: Maintenance Procedures and Emergency Operations

- Scheduled maintenance: oil and filter change, fuel filter replacement, air filter cleaning.
- Cooling system maintenance: coolant change, hose inspection.
- Battery maintenance: terminals, electrolyte levels, charging system check.
- Fault diagnosis: starting problems, loss of power, overheating, excessive smoke.
- Emergency operation: load bank testing, fuel system priming.
- Safety: lockout/tagout, fire extinguisher use, PPE.
- Documentation: service log entries, fault reporting.

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 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 15,400.00	R 15,400.00
1	In-House	R 20,000.00	R 20,000.00
1	On-Campus (Pretoria)	R 23,100.00	R 23,100.00

UPCOMING SESSIONS

Start	End	Method	Venue
06 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
06 Aug 2026	07 Aug 2026	On-Campus	Mauritius
06 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
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

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 253357) 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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