



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

Install Automotive Components Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 119748 · NQF Level 2 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the practical skills and theoretical knowledge required to install automotive components safely and correctly. It covers component identification, installation procedures, and quality assurance to ensure compliance with industry standards.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	119748
Accreditation	SAQA Accredited · NQF Level 2 · 6 Credits
Duration	3 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Identify and select appropriate automotive components for installation based on specifications.
- Apply correct installation procedures for various automotive components following manufacturer guidelines.
- Demonstrate safe working practices during component installation to prevent damage and injury.
- Verify component functionality and alignment after installation using appropriate testing methods.
- Record installation processes and outcomes accurately for quality assurance purposes.

WHO SHOULD ATTEND

- This course is designed for automotive technicians, mechanics, and apprentices who are involved in the installation of vehicle components and seek to formalize their skills with a recognized qualification.

COURSE OUTLINE

Day 1: Foundational Knowledge and Safety Procedures

- Overview of unit standard outcomes and assessment criteria
- Health, safety, and environmental regulations (OHS Act, SANS codes)
- Introduction to automotive systems: engine, transmission, braking, suspension, electrical
- Component identification: fasteners, seals, gaskets, bearings, belts, hoses
- Reading and interpreting technical data sheets and service manuals
- Safe handling of tools: spanners, sockets, torque wrenches, pullers
- PPE requirements: gloves, safety glasses, steel-toed boots
- Hazard identification and risk assessment in the workshop

Day 2: Installation Techniques and Quality Assurance

- Step-by-step removal and installation of components (e.g., brake pads, alternator, water pump)
- Use of torque wrenches and torque angle gauges
- Thread repair and fastener locking methods (Loctite, nyloc nuts)
- Measuring techniques: feeler gauges, dial indicators, micrometers
- Gasket and seal installation: surface preparation, sealant application
- Inspection criteria: visual checks, dimensional tolerances
- Common installation errors and how to avoid them
- Quality control checklists and sign-off procedures

Day 3: Practical Integration and Assessment

- Practical exercise: install a complete component system (e.g., brake caliper assembly, shock absorber pair)
- Troubleshooting common fitment problems: misalignment, interference, leaks
- Post-installation testing: function checks, leak tests, bolt re-torque
- Completion of job cards, service records, and non-conformance reports
- Review of unit standard evidence requirements
- Summative practical assessment with observation checklist
- Feedback session and areas for improvement
- Course wrap-up and certification process

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 **6 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 17,900.00	R 17,900.00
1	In-House	R 23,300.00	R 23,300.00
1	On-Campus (Pretoria)	R 26,800.00	R 26,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	12 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	12 Aug 2026	On-Campus	Cape Town, South Africa
11 Aug 2026	13 Aug 2026	On-Campus	Durban, South Africa
11 Aug 2026	13 Aug 2026	On-Campus	Dubai, UAE
12 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
12 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	19 Aug 2026	On-Campus	Durban, South Africa
17 Aug 2026	19 Aug 2026	On-Campus	Dubai, UAE

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 119748) 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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