



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aatikd.co.za · Website: www.aatikd.co.za

COURSE BROCHURE

API 510 Pressure Vessel Inspection

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0417 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course provides comprehensive training on the inspection, repair, and alteration of pressure vessels in accordance with API 510 standards. It equips participants with the knowledge and skills to ensure the integrity and safety of pressure vessels, thereby preventing failures and complying with regulatory requirements.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0417
Accreditation	SAQA Accredited · NQF Level 5 · 4 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply API 510 inspection, repair, alteration, and rerating procedures to pressure vessels.
- Analyze pressure vessel damage mechanisms and determine appropriate inspection methods.
- Evaluate inspection findings to establish remaining life and determine safe operating limits.
- Design inspection plans and schedules based on risk-based inspection principles.
- Implement proper documentation and record-keeping practices for pressure vessel inspections.
- Demonstrate understanding of relevant codes, standards, and regulatory requirements.

WHO SHOULD ATTEND

- This course is designed for inspection personnel, maintenance engineers, quality assurance professionals, and individuals seeking certification in pressure vessel inspection.

COURSE OUTLINE

Day 1: Introduction to API 510 and Inspection Fundamentals

- Overview of API 510 code and its relationship with other standards.
- Inspector qualifications, certification, and responsibilities.
- Pressure vessel types, components, and design codes.
- Damage mechanisms: corrosion, cracking, and mechanical.
- Inspection methods: visual, ultrasonic, radiography, and others.
- Risk-based inspection concepts.
- Documentation and reporting requirements.

Day 2: Inspection Planning, Evaluation, and Practical Application

- Inspection planning: data collection, risk assessment, and interval determination.
- Remaining life assessment and corrosion rate calculations.
- Fitness-for-service evaluation per API 579.
- Repair, alteration, and rerating of pressure vessels.
- Records, reports, and documentation.
- Case studies and group exercises.

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 **4 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 11,900.00	R 11,900.00
1	In-House	R 15,400.00	R 15,400.00
1	On-Campus (Pretoria)	R 17,800.00	R 17,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
01 Oct 2026	02 Oct 2026	On-Campus	Blantyre, Malawi
05 Oct 2026	06 Oct 2026	On-Campus	Windhoek, Namibia
06 Oct 2026	07 Oct 2026	On-Campus	Kigali, Rwanda
06 Oct 2026	07 Oct 2026	Online	—
07 Oct 2026	08 Oct 2026	On-Campus	Mbabane, Eswatini
07 Oct 2026	08 Oct 2026	On-Campus	Lusaka, Zambia
08 Oct 2026	09 Oct 2026	On-Campus	Bangkok, Thailand
08 Oct 2026	09 Oct 2026	On-Campus	Nairobi, Kenya

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-0417) 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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