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

Pressure Vessel Inspection

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0428 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips participants with the knowledge and skills required to conduct thorough inspections of pressure vessels, ensuring compliance with relevant regulations and industry standards. It focuses on identifying potential hazards, assessing vessel integrity, and implementing corrective actions to maintain operational safety and reliability.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0428
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 relevant legislation, codes, and standards (e.g., SANS 347, ASME VIII) to pressure vessel inspection procedures.
- Analyze pressure vessel design, materials, and failure modes to determine inspection priorities and techniques.
- Evaluate inspection findings to identify defects, corrosion, or damage and recommend appropriate remedial actions.
- Implement inspection plans, including non-destructive testing (NDT) methods, to ensure comprehensive vessel assessment.
- Demonstrate effective reporting and documentation of inspection results in accordance with regulatory requirements.

WHO SHOULD ATTEND

- This course is ideal for mechanical engineers, maintenance supervisors, safety officers, and technicians responsible for the inspection, maintenance, and safe operation of pressure vessels in industries such as petrochemical, energy, and manufacturing.

COURSE OUTLINE

Day 1: **Fundamentals of Pressure Vessel Inspection**

- Introduction to pressure vessels: types, uses, and design codes (SANS 347, ASME VIII
- Regulatory requirements: OHS Act, Pressure Equipment Regulations (PER
- Pressure vessel components: shells, heads, nozzles, supports, and closures
- Degradation mechanisms: corrosion, erosion, fatigue, and cracking
- Inspection planning: risk-based inspection (RBI) and statutory intervals
- Documentation and record-keeping: inspection reports, history files
- Safety during inspection: permits, lock-out/tag-out, and confined space entry
- Overview of inspection tools and equipment

Day 2: **Inspection Techniques and Practical Application**

- Visual inspection: procedures and acceptance criteria
- Surface NDT: magnetic particle (MPI) and liquid penetrant (PT
- Volumetric NDT: ultrasonic (UT) and radiography (RT) – principles and applications
- Thickness measurement and corrosion mapping
- Pressure testing: hydrostatic and pneumatic testing procedures
- Defect assessment: severity, criticality, and repair vs. replace decisions
- Reporting and documentation: recording results and recommendations
- Case studies: common inspection findings and their implications

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 16,100.00	**R 16,100.00**
1	On-Campus (Pretoria)	R 17,800.00	**R 17,800.00**

UPCOMING SESSIONS

Start	End	Method	Venue
01 Dec 2026	02 Dec 2026	On-Campus	Shenzhen, China
01 Dec 2026	02 Dec 2026	On-Campus	Lagos, Nigeria
02 Dec 2026	03 Dec 2026	On-Campus	Durban, South Africa
03 Dec 2026	04 Dec 2026	On-Campus	Dubai, UAE
07 Dec 2026	08 Dec 2026	On-Campus	Maseru, Lesotho
07 Dec 2026	08 Dec 2026	On-Campus	Kigali, Rwanda
07 Dec 2026	08 Dec 2026	On-Campus	Accra, Ghana
07 Dec 2026	08 Dec 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 QUOTATION OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard AATICD-0428) and click **Get A Quotation**. 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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