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@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Mechanical Integrity

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0431 · NQF Level 5 · 2 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and skills to ensure the mechanical integrity of plant equipment and systems. It focuses on the principles, practices, and regulatory requirements for maintaining equipment reliability and safety, thereby preventing failures and accidents.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0431
Accreditation	SAQA Accredited · NQF Level 5 · 2 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS — verifiable online

LEARNING OUTCOMES

- Apply the principles of mechanical integrity to identify and assess potential failure modes in mechanical systems.
- Analyze the requirements of relevant legislation and industry standards for mechanical integrity management.
- Evaluate the effectiveness of inspection, testing, and preventive maintenance programs in ensuring mechanical integrity.
- Design a mechanical integrity management plan for a specific system or component.
- Implement procedures for the safe operation, maintenance, and repair of mechanical equipment.
- Demonstrate an understanding of the role of mechanical integrity in overall process safety management.

WHO SHOULD ATTEND

- This course is designed for maintenance technicians, mechanical engineers, reliability engineers, and other technical personnel responsible for the integrity and safety of mechanical systems in industrial environments.

COURSE OUTLINE

Day 1: **Foundations of Mechanical Integrity**

- Introduction to mechanical integrity: definitions, purpose, and benefits
- Overview of mechanical systems: pressure vessels, piping, rotating equipment, storage tanks
- Regulatory framework: OHS Act, SANS, ASME, API standards
- Key elements of a mechanical integrity program: design, fabrication, inspection, maintenance
- Inspection techniques: visual, NDT (ultrasonic, radiography, magnetic particle
- Risk-based inspection (RBI) and its application
- Preventive and predictive maintenance strategies
- Documentation and record-keeping for compliance

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 **2 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 9,900.00	**R 9,900.00**
1	In-House	R 13,300.00	**R 13,300.00**
1	On-Campus (Pretoria)	R 14,800.00	**R 14,800.00**

UPCOMING SESSIONS

Start	End	Method	Venue
01 Dec 2026	01 Dec 2026	On-Campus	Durban, South Africa
02 Dec 2026	02 Dec 2026	On-Campus	Cape Town, South Africa
03 Dec 2026	03 Dec 2026	On-Campus	Shenzhen, China
04 Dec 2026	04 Dec 2026	On-Campus	Dubai, UAE
07 Dec 2026	07 Dec 2026	On-Campus	Accra, Ghana
08 Dec 2026	08 Dec 2026	On-Campus	Abu Dhabi, UAE
09 Dec 2026	09 Dec 2026	On-Campus	Kigali, Rwanda
09 Dec 2026	09 Dec 2026	Online	—

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-0431) 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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