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

Pipeline Inspection and Maintenance

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0426 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips participants with the knowledge and practical skills required to inspect, maintain, and ensure the integrity of pipelines used in various industries. It covers regulatory compliance, safety protocols, and best practices for pipeline operations, enabling learners to identify and mitigate risks effectively.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0426
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, standards, and codes of practice to pipeline inspection and maintenance activities.
- Analyze pipeline defects and degradation mechanisms to determine appropriate maintenance strategies.
- Evaluate inspection data and recommend corrective actions to ensure pipeline integrity.
- Design a preventive maintenance plan for a pipeline system, considering operational and safety factors.
- Demonstrate proficiency in using inspection tools and techniques, including visual, ultrasonic, and corrosion monitoring methods.
- Implement safety procedures and emergency response plans during pipeline maintenance operations.

WHO SHOULD ATTEND

- This course is designed for pipeline operators, maintenance technicians, inspectors, and supervisors involved in the oil, gas, water, and chemical industries.
- It is also suitable for engineers and safety officers seeking to enhance their understanding of pipeline integrity management.

COURSE OUTLINE

Day 1: Fundamentals of Pipeline Systems and Inspection

- Overview of pipeline infrastructure: materials, construction, and operation.
- Pipeline integrity management: concepts and importance.
- Defect types: corrosion, cracking, dents, and material degradation.
- Failure modes and consequences: leaks, ruptures, and environmental impact.
- Regulatory framework: South African legislation, SANS standards, and industry best practices.
- Inspection planning: selecting techniques based on defect type and pipeline condition.
- Non-destructive testing (NDT) methods: visual, ultrasonic, magnetic particle, and radiography.
- Safety during inspection: confined space entry, hazardous atmospheres, and permit systems.

Day 2: Advanced Inspection Technologies and Maintenance Strategies

- In-line inspection (ILI) tools: smart pigs, data analysis, and limitations.
- Robotic and drone-based inspection: applications and benefits.
- Data management and analysis: corrosion rate calculations, defect assessment.
- Risk-based inspection (RBI): prioritizing maintenance based on risk.
- Maintenance strategies: preventive, predictive, and corrective approaches.
- Repair methods: sleeves, clamps, and replacement.
- Pipeline integrity management plans: development and implementation.
- Case studies and emerging trends in pipeline maintenance.

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	Dubai, UAE
02 Dec 2026	03 Dec 2026	On-Campus	Victoria Falls, Zimbabwe
02 Dec 2026	03 Dec 2026	On-Campus	Cape Town, South Africa
03 Dec 2026	04 Dec 2026	On-Campus	Shenzhen, China
03 Dec 2026	04 Dec 2026	On-Campus	Lagos, Nigeria
09 Dec 2026	10 Dec 2026	On-Campus	Maseru, Lesotho
09 Dec 2026	10 Dec 2026	On-Campus	Kigali, Rwanda
09 Dec 2026	10 Dec 2026	On-Campus	Accra, Ghana

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-0426) 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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