



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 653 Storage Tank Inspection

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0419 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to conduct storage tank inspections in accordance with API 653 standards. It covers the inspection, repair, alteration, and rerating of aboveground storage tanks to ensure safety, integrity, and regulatory compliance.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0419
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 653 inspection procedures to assess the condition of aboveground storage tanks.
- Analyze inspection data to determine the integrity and remaining life of storage tank components.
- Evaluate tank repair and alteration methods to ensure compliance with API 653 standards.
- Implement inspection schedules and documentation practices in accordance with regulatory requirements.
- Demonstrate proficiency in using inspection tools and techniques for thickness measurement and leak detection.
- Design a comprehensive inspection plan for a typical aboveground storage tank.

WHO SHOULD ATTEND

- This course is designed for inspection engineers, maintenance personnel, and safety officers involved in the management of aboveground storage tanks in industries such as petrochemical, oil and gas, and chemical processing.

COURSE OUTLINE

Day 1: Introduction to API 653 and Inspection Fundamentals

- Overview of API 653 and its relationship with API 650 and API 570.
- Storage tank types, components, and failure modes.
- Regulatory framework (e.g., OSHA, EPA, local legislation) and industry best practices.
- Inspection planning: risk-based inspection (RBI) principles.
- Thickness measurement techniques (ultrasonic testing, radiography) and corrosion assessment.
- Evaluation of tank settlement and foundation integrity.
- Introduction to repair and alteration requirements.
- Documentation and reporting standards.

Day 2: Advanced Inspection Techniques, Fitness-for-Service, and Practical Application

- In-service inspection techniques: magnetic flux leakage, eddy current, and acoustic emission.
- Tank bottom inspection: scanning, leak detection, and corrosion mapping.
- Shell and roof inspection: visual, ultrasonic, and radiographic methods.
- Fitness-for-service evaluation: remaining strength, corrosion allowance, and repair limits.
- Repair and alteration procedures: hot work, welding, and non-destructive testing.
- Risk-based inspection (RBI) and prioritizing inspections.
- Case studies and real-world applications.
- Review and assessment of inspection reports.

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
30 Sep 2026	01 Oct 2026	On-Campus	Mombasa, Kenya
30 Sep 2026	01 Oct 2026	On-Campus	London, UK
01 Oct 2026	02 Oct 2026	On-Campus	Maseru, Lesotho
01 Oct 2026	02 Oct 2026	On-Campus	Victoria Falls, Zimbabwe
05 Oct 2026	06 Oct 2026	On-Campus	Mbabane, Eswatini
05 Oct 2026	06 Oct 2026	On-Campus	Lusaka, Zambia
06 Oct 2026	07 Oct 2026	On-Campus	Bangkok, Thailand
06 Oct 2026	07 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-0419) 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.

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 · WhatsApp: +27 65 077 6310 · apply@aaticd.co.za · www.aaticd.co.za