



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

API 577 Welding Inspection

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0422 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips welding inspectors with the knowledge and skills to perform visual weld inspection in accordance with API 577, ensuring the integrity and safety of welded components in the oil, gas, and petrochemical industries. Participants will learn to interpret welding procedures, identify discontinuities, and apply acceptance criteria, thereby contributing to quality assurance and safety compliance.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0422
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 the principles of API 577 to visual inspection of welds, including pre-weld, during-weld, and post-weld inspection.
- Analyze welding procedures and qualifications to ensure compliance with applicable codes and standards.
- Evaluate weld discontinuities using appropriate acceptance criteria and determine their significance.
- Demonstrate proper use of inspection tools and gauges to measure weld dimensions and detect surface discontinuities.
- Implement documentation and reporting procedures for weld inspection results, including nonconformance reports.
- Analyze the role of the welding inspector in quality assurance and safety management systems.

WHO SHOULD ATTEND

- This course is designed for welding inspectors, quality control personnel, engineers, and supervisors involved in welding inspection and quality assurance within the oil, gas, petrochemical, and related industries.

COURSE OUTLINE

Day 1: Fundamentals of Welding Inspection

- Introduction to API 577 and the role of the welding inspector.
- Overview of welding processes (SMAW, GMAW, FCAW, GTAW, SAW).
- Welding metallurgy and heat-affected zone (HAZ).
- Common weld defects: porosity, slag inclusion, lack of fusion, cracks.
- Welding symbols and blueprint reading.
- Welding procedure specifications (WPS) and procedure qualification records (PQR).
- Visual inspection tools and techniques.
- Acceptance criteria per API 577 and relevant codes.

Day 2: Advanced Inspection Techniques and Practical Application

- Advanced visual inspection: fit-up, alignment, and dimensional checks.
- Use of weld inspection gauges (e.g., fillet weld gauge, bridge cam gauge).
- Introduction to non-destructive testing (NDT) methods: RT, UT, MT, PT.
- Interpretation of NDT reports and correlation with visual findings.
- Documentation and reporting of inspection results.
- Review of API 577 exam format and sample questions.
- Case studies and group discussions on real-world inspection scenarios.

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	In-House	—
01 Oct 2026	02 Oct 2026	On-Campus	Shenzhen, China
05 Oct 2026	06 Oct 2026	On-Campus	Nairobi, Kenya
05 Oct 2026	06 Oct 2026	On-Campus	Bangkok, Thailand
06 Oct 2026	07 Oct 2026	On-Campus	Windhoek, Namibia
07 Oct 2026	08 Oct 2026	Online	—
07 Oct 2026	08 Oct 2026	On-Campus	Kigali, Rwanda
08 Oct 2026	09 Oct 2026	On-Campus	Mbabane, Eswatini

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-0422) 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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