



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

Plant Inspection

Custom Courses / Engineering & Technical Maintenance

Unit Standard AATICD-0219 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to conduct systematic plant inspections, identify hazards, and recommend corrective actions in compliance with South African occupational health and safety regulations. It focuses on practical inspection techniques and risk assessment to promote a safe working environment.

Category	Custom Courses
Subfield	Engineering & Technical Maintenance
Unit Standard	AATICD-0219
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply legislative requirements and industry standards to plant inspection procedures.
- Demonstrate systematic inspection techniques to identify potential hazards and non-compliances.
- Analyze inspection findings to determine risk levels and prioritize corrective actions.
- Implement appropriate reporting and documentation procedures for inspection results.
- Evaluate the effectiveness of corrective measures through follow-up inspections.
- Communicate inspection outcomes and recommendations to relevant stakeholders.

WHO SHOULD ATTEND

- This course is designed for health and safety officers, supervisors, and team leaders responsible for workplace inspections in industrial, manufacturing, or agricultural settings.

COURSE OUTLINE

Day 1: Introduction to Plant Inspection and Safety

- Overview of plant inspection in industry.
- Relevant legislation: OHS Act, SANS standards.
- Safety precautions and PPE.
- Types of plant equipment: boilers, pressure vessels, lifts, cranes.
- Inspection frequency and scheduling.
- Documentation and record-keeping.
- Ethics and professionalism.
- Case studies: inspection failures and lessons learned.

Day 2: Inspection Techniques and Tools

- Visual inspection: techniques and limitations.
- Measurement tools: callipers, micrometers, thickness gauges.
- Introduction to NDT methods: ultrasonic, magnetic particle, dye penetrant.
- Inspection of welds, joints, and structural elements.
- Corrosion assessment and classification.
- Wear and tear evaluation.
- Hands-on tool familiarisation.
- Recording inspection data accurately.

Day 3: Inspection of Mechanical and Electrical Systems

- Mechanical system inspection: alignment, vibration, lubrication.
- Electrical inspection: cables, switchgear, earthing, insulation.
- Inspection of motors, pumps, and compressors.
- Hydraulic and pneumatic systems checks.
- Safety devices: pressure relief valves, emergency stops.
- Defect classification: cracks, deformation, leaks.
- Practical exercise: inspecting a motor assembly.
- Reporting findings and recommendations.

Day 4: Advanced Inspection and Risk Assessment

- Risk assessment methodologies: HIRA, FMEA.
- Interpreting NDT results: indications vs. defects.
- Fitness-for-service assessment.
- Inspection of pressure equipment: boilers, heat exchangers.
- Structural integrity evaluation.
- Life extension and remaining life calculations.
- Hands-on: risk assessment scenario.
- Writing comprehensive inspection reports.

Day 5: Practical Integration and Assessment

- Simulated plant inspection exercise.
- Use of inspection checklists.
- Data collection and analysis.
- Report writing and presentation.
- Peer review and feedback.

- Final assessment: practical inspection task.
- Course review and Q&A.;

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 **10 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 24,200.00	R 24,200.00
1	In-House	R 31,400.00	R 31,400.00
1	On-Campus (Pretoria)	R 36,200.00	R 36,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Harare, Zimbabwe
17 Aug 2026	21 Aug 2026	On-Campus	Shenzhen, China
24 Aug 2026	28 Aug 2026	On-Campus	Bangkok, Thailand
24 Aug 2026	28 Aug 2026	On-Campus	Victoria Falls, Zimbabwe
31 Aug 2026	04 Sep 2026	On-Campus	Lusaka, Zambia
31 Aug 2026	04 Sep 2026	On-Campus	London, UK

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-0219) 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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