



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

Technical Workplace Safety Health And Environmental Hazard Management Training

Manufacturing, Engineering and Technology / Engineering and Related Design

Unit Standard 117701 · NQF Level 5 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the technical knowledge and practical skills to identify, assess, and control workplace health, safety, and environmental hazards. Participants will learn to implement effective hazard management systems in compliance with South African legislation and international best practices, fostering a culture of safety and environmental responsibility.

Category	Manufacturing, Engineering and Technology
Subfield	Engineering and Related Design
Unit Standard	117701
Accreditation	SAQA Accredited · NQF Level 5 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Identify and classify workplace health, safety, and environmental hazards using recognised risk assessment methodologies.
- Apply relevant South African legislation (e.g., OHS Act, NEMA) and industry standards to hazard control measures.
- Design and implement hazard control hierarchies, including elimination, substitution, engineering controls, and PPE.
- Evaluate the effectiveness of existing safety management systems and recommend improvements.
- Demonstrate emergency response procedures and incident reporting protocols in simulated scenarios.
- Analyze environmental impacts of workplace activities and propose mitigation strategies.

WHO SHOULD ATTEND

- This programme is designed for safety officers, supervisors, team leaders, and any employees responsible for workplace safety and environmental management in industrial, manufacturing, construction, or technical environments.

COURSE OUTLINE

Day 1: Foundational Principles of Workplace Health, Safety, and Environmental Management

- Overview of OHS Act, COIDA Act, and relevant regulations.
- Duties of employers, employees, and health and safety representatives.
- Types of hazards: physical, chemical, biological, ergonomic, psychosocial.
- Introduction to risk assessment process: hazard identification, risk analysis, risk evaluation.
- Hierarchy of controls: elimination, substitution, engineering, administrative, PPE.
- Importance of safety culture and employee participation.

Day 2: Hazard Identification and Risk Assessment (HIRA) Techniques

- Job Safety Analysis (JSA) and Hazard and Operability Study (HAZOP).
- Risk matrix: likelihood vs. severity.
- Practical exercise: walk-through inspection and hazard spotting.
- Risk assessment documentation and reporting.
- Developing safe work procedures and permits-to-work.
- Case studies: common workplace incidents and lessons learned.

Day 3: Environmental Hazard Management and Waste Control

- Environmental management systems (ISO 14001 overview).
- Hazardous chemical substances: storage, handling, and disposal.
- Waste classification: general, hazardous, and recyclable waste.
- Spill containment and emergency response procedures.
- Air quality, noise, and water pollution control.
- Environmental impact assessments and monitoring.

Day 4: Emergency Preparedness, Incident Investigation, and First Aid

- Emergency planning: evacuation, assembly points, drills.
- Fire safety: classes of fire, extinguisher types, and usage.
- Incident investigation process: gathering evidence, interviewing, reporting.
- Root cause analysis tools: 5 Whys, fishbone diagram.
- Basic first aid: wounds, fractures, burns, and choking.
- CPR and AED familiarisation (practical demonstration).

Day 5: Integration, Auditing, and Continuous Improvement

- Internal auditing techniques: checklists, interviews, observations.
- Non-conformance reporting and corrective action plans.
- Safety and environmental management system integration.
- Performance monitoring: leading and lagging indicators.
- Practical assessment: conduct a mini-audit and present findings.
- Course review and final assessment (written and practical).

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 **8 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
10 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Pretoria, South Africa

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 117701) 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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