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

Process Safety

Custom Courses / Health, Safety and Environment (HSE)

Unit Standard AATICD-0326 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to identify, assess, and control process-related hazards in industrial environments. It focuses on preventing major accidents involving hazardous substances, ensuring compliance with South African regulations, and fostering a proactive safety culture.

Category	Custom Courses
Subfield	Health, Safety and Environment (HSE)
Unit Standard	AATICD-0326
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 the principles of process safety management to identify and evaluate potential hazards in industrial processes.
- Analyze process hazards using techniques such as HAZOP, LOPA, and risk matrices to determine the likelihood and consequences of incidents.
- Evaluate the effectiveness of existing process safety controls and recommend improvements to mitigate risks.
- Design emergency response plans specific to process-related incidents, including fire, explosion, and toxic release scenarios.
- Implement process safety management systems in line with South African legislation (e.g., OHS Act, Major Hazard Installation regulations).
- Demonstrate the ability to conduct incident investigations and apply lessons learned to prevent recurrence.

WHO SHOULD ATTEND

- This course is designed for process operators, safety officers, engineers, and managers working in industries such as chemical, petrochemical, pharmaceutical, and manufacturing sectors.

COURSE OUTLINE

Day 1: Introduction to Process Safety and Risk Fundamentals

- Overview of process safety vs. occupational safety
- Case studies of major incidents (e.g., Bhopal, Piper Alpha, Texas City
- Key concepts: hazard, risk, likelihood, consequence
- Introduction to risk assessment methodologies
- Overview of South African regulations (e.g., OHS Act, MHSA) and international standards (e.g., CCPS, OSHA PSM
- Introduction to process safety management (PSM) elements

Day 2: Hazard Identification and Risk Assessment Techniques

- Hazard identification methods: checklist, What-If, HAZOP, FMEA
- Introduction to HAZOP methodology and application
- Risk assessment processes: qualitative, semi-quantitative, quantitative
- Risk matrices and ALARP principles
- Layers of protection analysis (LOPA) basics
- Bow-tie analysis for risk visualization

Day 3: Process Safety Management Systems and Safety Critical Elements

- Overview of PSM elements (CCPS framework
- Process safety information and documentation
- Operating procedures and safe work practices
- Management of change (MOC) and its importance
- Pre-startup safety review (PSSR
- Safety critical equipment identification and assurance
- Training, competency, and performance measurement

Day 4: Incident Investigation, Emergency Response, and Safety Culture

- Incident investigation methodologies (e.g., TapRooT, 5 Whys
- Root cause analysis and corrective actions
- Emergency response planning and coordination
- Safety culture and leadership
- Human factors in process safety
- Learning from incidents and sharing lessons
- Emergency drills and tabletop exercises

Day 5: Integration, Continuous Improvement, and Practical Application

- Integrating process safety into organizational systems
- Performance monitoring and metrics
- Auditing and assurance of process safety
- Management review and continuous improvement
- Case study: developing a process safety plan
- Group exercise: applying HAZOP and LOPA to a simplified process
- Course review and assessment

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 17,700.00	**R 17,700.00**
1	In-House	R 23,900.00	**R 23,900.00**
1	On-Campus (Pretoria)	R 26,700.00	**R 26,700.00**

UPCOMING SESSIONS

Start	End	Method	Venue
07 Dec 2026	11 Dec 2026	Online	—
07 Dec 2026	11 Dec 2026	On-Campus	Maseru, Lesotho
07 Dec 2026	11 Dec 2026	On-Campus	Kigali, Rwanda
07 Dec 2026	11 Dec 2026	On-Campus	Accra, Ghana
07 Dec 2026	11 Dec 2026	On-Campus	Cape Town, South Africa
07 Dec 2026	11 Dec 2026	On-Campus	Abu Dhabi, UAE
07 Dec 2026	11 Dec 2026	On-Campus	Victoria Falls, Zimbabwe
14 Dec 2026	18 Dec 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 QUOTATION OR APPLY

1. **Get an instant quotation online:** visit www.aaticd.co.za, open the page for this course (Unit Standard AATICD-0326) 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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