



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

HAZOP Study Management

Custom Courses / Health, Safety and Environment (HSE)

Unit Standard AATICD-0051 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the skills to manage and facilitate Hazard and Operability (HAZOP) studies in process industries. It covers the systematic identification of hazards and operability issues using the HAZOP methodology, enabling participants to lead study teams and document findings effectively.

Category	Custom Courses
Subfield	Health, Safety and Environment (HSE)
Unit Standard	AATICD-0051
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 HAZOP methodology to systematically identify hazards and operability problems in process systems.
- Analyze process deviations using guide words and parameters to assess potential risks.
- Evaluate the adequacy of existing safeguards and recommend risk reduction measures.
- Design a HAZOP study plan including scope, team composition, and documentation requirements.
- Implement HAZOP study procedures to facilitate effective team discussions and record findings.
- Demonstrate the ability to compile a comprehensive HAZOP report with actionable recommendations.

WHO SHOULD ATTEND

- Process engineers, safety professionals, and operations managers involved in risk assessment and process safety management in industries such as chemical, petrochemical, pharmaceutical, and oil & gas.

COURSE OUTLINE

Day 1: Introduction to HAZOP and Risk Management

- Overview of process safety and hazard identification
- History and development of HAZOP methodology
- Key definitions: hazard, risk, deviation, cause, consequence
- HAZOP study process overview
- Introduction to risk assessment matrices
- Roles and responsibilities of the HAZOP team
- Standards and regulations (e.g., OSHA, IEC 61882)

Day 2: HAZOP Methodology and Team Leadership

- Detailed HAZOP procedure: node selection, design intent, deviations
- Guide words and parameters: combinations and examples
- Identifying credible causes and consequences
- Evaluating existing safeguards and risk ranking
- Recording and reporting HAZOP worksheets
- Facilitation techniques and managing group dynamics
- Practice session: small group HAZOP on a simple system

Day 3: Advanced HAZOP Techniques and Special Applications

- HAZOP for batch and semi-batch processes
- Human factors in HAZOP: operator error, procedures
- HAZOP of computer-based control systems
- Introduction to Layers of Protection Analysis (LOPA)
- Managing complex nodes and multiple deviations
- Developing recommendations and action items
- Case studies: refining and chemical processes

Day 4: HAZOP Study Management and Quality Assurance

- Pre-HAZOP activities: scope definition, team selection, documentation
- Managing HAZOP schedules and budgets
- Quality assurance: independent review and verification
- HAZOP report writing and management of change
- Revalidation and periodic HAZOP reviews
- Integration with other risk assessment tools
- Workshop: developing a HAZOP study management plan

Day 5: Practical Application and Assessment

- Full-scale HAZOP simulation on a process unit
- Team roles: leader, scribe, members
- Real-time risk ranking and decision-making
- Preparing and presenting HAZOP findings
- Feedback and debrief
- Written assessment and competency evaluation
- Course wrap-up and certification

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-0051) 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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