



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

Introduction to HAZOP

Custom Courses / Health, Safety and Environment (HSE)

Unit Standard AATICD-0052 · NQF Level 5 · 10 Credits · 5 Days

COURSE OVERVIEW

This course provides a foundational understanding of Hazard and Operability (HAZOP) studies, a systematic technique for identifying potential hazards and operability problems in process industries. Participants will learn the principles, methodology, and application of HAZOP as a risk assessment tool, enabling them to contribute effectively to HAZOP teams and improve process safety.

Category	Custom Courses
Subfield	Health, Safety and Environment (HSE)
Unit Standard	AATICD-0052
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

- Explain the purpose, scope, and principles of HAZOP studies in process safety management.
- Apply the HAZOP methodology, including guide words, deviations, and node selection, to systematically identify hazards.
- Analyze process parameters and deviations to evaluate potential causes and consequences of hazards.
- Document HAZOP findings, including recommendations and actions, using standard recording formats.
- Demonstrate effective participation in a HAZOP team, including communication and decision-making skills.
- Evaluate the role of HAZOP within a broader risk management framework, including ALARP principles.

WHO SHOULD ATTEND

- Process engineers, safety practitioners, operations supervisors, and technical managers involved in process design, operation, or maintenance in industries such as chemical, petrochemical, pharmaceutical, and mining.

COURSE OUTLINE

Day 1: Introduction to Hazard and Operability Studies

- History and development of HAZOP methodology
- Regulatory and industry drivers (SAQA, OHSA, SANS)
- HAZOP team composition and leadership
- Overview of the HAZOP process: preparation, review, reporting
- Introduction to guide words and process parameters
- Difference between HAZOP, FMEA, and What-If analysis

Day 2: HAZOP Methodology and Preparation

- Step-by-step HAZOP procedure
- Selecting and defining nodes (P&ID, PFD review)
- Guide word and parameter combinations
- Brainstorming deviations systematically
- Using the HAZOP worksheet: columns and entries
- Pre-HAZOP data gathering: P&IDs, operating procedures, equipment specs

Day 3: Conducting the HAZOP Review Meeting

- Chairperson and scribe roles in action
- Techniques for encouraging participation
- Risk ranking: likelihood, severity, and risk matrix
- Defining safeguards: engineering, administrative, PPE
- Formulating clear, actionable recommendations
- Handling common challenges: scope creep, fatigue, conflicts

Day 4: Advanced HAZOP Techniques and Specific Applications

- HAZOP for batch vs. continuous processes
- CHAZOP: guide words for software and hardware
- Combining HAZOP and LOPA for SIL determination
- Human factors in HAZOP: task analysis and error modes
- HAZOP of procedures and emergency shutdown systems
- Industry case studies: petrochemical, mining, pharmaceuticals

Day 5: HAZOP Reporting, Follow-up, and Integration

- Report structure: executive summary, worksheets, action register
- Assigning responsibilities and target dates
- Management of change (MOC) and HAZOP updates
- Revalidation studies: when and how to re-HAZOP
- Auditing the HAZOP process
- Course wrap-up 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 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-0052) 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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