



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

Bow-Tie Risk Analysis

Custom Courses / Energy, Oil and Gas

Unit Standard AATICD-0405 · NQF Level 5 · 4 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to conduct bow-tie risk analysis, a powerful methodology for identifying, assessing, and communicating major hazard risks. Participants will learn to construct bow-tie diagrams that visually link potential threats, top events, consequences, and preventive and mitigative controls, enabling proactive risk management and improved safety performance.

Category	Custom Courses
Subfield	Energy, Oil and Gas
Unit Standard	AATICD-0405
Accreditation	SAQA Accredited · NQF Level 5 · 4 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply the bow-tie methodology to identify and analyse major hazard risks in a workplace context.
- Construct bow-tie diagrams that clearly illustrate the relationships between threats, top events, consequences, and controls.
- Evaluate the effectiveness of existing preventive and mitigative controls and identify gaps in risk management.
- Design comprehensive risk management strategies based on bow-tie analysis findings.
- Demonstrate the use of bow-tie analysis as a communication tool for engaging stakeholders in risk management.
- Implement bow-tie risk analysis as part of an integrated risk management system.

WHO SHOULD ATTEND

- This course is designed for health and safety professionals, risk managers, operations managers, engineers, and other personnel responsible for identifying and managing major hazards in high-risk industries such as mining, oil and gas, chemical, and manufacturing.

COURSE OUTLINE

Day 1: Foundations of Bow-Tie Risk Analysis

- Introduction to risk management and bow-tie methodology
- The anatomy of a bow-tie diagram
- Identifying hazards and top events
- Threats and escalation factors
- Consequences and business impact
- Prevention and mitigation controls (barriers)
- Introduction to bow-tie software and templates
- Group exercise: building a simple bow-tie

Day 2: Advanced Application and Integration

- Advanced bow-tie construction: multiple threats and consequences
- Control effectiveness assessment and critical controls
- Escalation factors and recovery preparedness
- Integrating bow-tie with HIRA, HAZOP, and incident investigation
- Using bow-tie software to manage and update diagrams
- Facilitation skills for bow-tie workshops
- Case studies from mining, petrochemical, and construction sectors
- Developing an action plan for organisational implementation

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 **4 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 11,900.00	R 11,900.00
1	In-House	R 15,400.00	R 15,400.00
1	On-Campus (Pretoria)	R 17,800.00	R 17,800.00

UPCOMING SESSIONS

Start	End	Method	Venue
01 Oct 2026	02 Oct 2026	On-Campus	Blantyre, Malawi
05 Oct 2026	06 Oct 2026	On-Campus	Windhoek, Namibia
06 Oct 2026	07 Oct 2026	On-Campus	Kigali, Rwanda
06 Oct 2026	07 Oct 2026	Online	—
07 Oct 2026	08 Oct 2026	On-Campus	Mbabane, Eswatini
07 Oct 2026	08 Oct 2026	On-Campus	Lusaka, Zambia
08 Oct 2026	09 Oct 2026	On-Campus	Bangkok, Thailand
08 Oct 2026	09 Oct 2026	On-Campus	Nairobi, Kenya

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-0405) 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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