



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aatikd.co.za · Website: www.aatikd.co.za

COURSE BROCHURE

Engineering Risk Management and Loss Control

Business, Commerce and Management Studies / Finance, Economics and Accounting

Unit Standard 242684 · NQF Level 4 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips engineering professionals with the technical knowledge and practical skills to identify, assess, and manage risks associated with engineering losses. It focuses on applying systematic approaches to loss control, ensuring compliance with South African health and safety regulations, and fostering a culture of proactive risk management.

Category	Business, Commerce and Management Studies
Subfield	Finance, Economics and Accounting
Unit Standard	242684
Accreditation	SAQA Accredited · NQF Level 4 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply technical knowledge to identify potential engineering loss scenarios in a given context.
- Analyze risk factors using appropriate methodologies to prioritize loss control measures.
- Evaluate existing risk management systems and recommend improvements to minimize losses.
- Design a risk management plan that integrates technical controls, administrative procedures, and personal protective measures.
- Implement loss control strategies in accordance with relevant legislation and organisational policies.
- Demonstrate the ability to communicate risk assessment findings and control measures to stakeholders.

WHO SHOULD ATTEND

- Engineers, engineering technicians, and technical managers involved in operations, maintenance, or project management within industrial or engineering environments.

COURSE OUTLINE

Day 1: Foundations of Engineering Risk Management

- Introduction to engineering risk management and loss control
- Key terminology and definitions
- Legal and regulatory framework (OHS Act, SANS/ISO standards)
- Types of risks in engineering environments
- Overview of the risk management process (ISO 31000)
- Roles and responsibilities of engineers, managers, and HSE personnel
- Case study: consequences of poor risk management

Day 2: Risk Identification and Analysis Techniques

- Hazard identification methods: checklists, brainstorming, HAZOP, what-if analysis
- Risk analysis techniques: qualitative (risk matrices), semi-quantitative, quantitative (FMEA, fault tree analysis)
- Conducting a HIRA: step-by-step process
- Failure Mode and Effects Analysis (FMEA) in engineering
- Risk ranking and prioritisation using likelihood and consequence
- Practical exercise: HIRA for a typical engineering process

Day 3: Risk Evaluation and Treatment Strategies

- Risk evaluation: comparing risk levels against acceptable criteria
- Hierarchy of controls: elimination, substitution, engineering controls, administrative controls, PPE
- Risk treatment options: avoidance, reduction, transfer (insurance), acceptance
- Developing a risk treatment plan with SMART actions
- Residual risk and risk acceptance
- Cost-benefit analysis of control measures
- Case study: risk treatment in a manufacturing plant

Day 4: Loss Control and Incident Management

- Principles of loss control: prevention, mitigation, recovery
- Proactive monitoring: inspections, audits, safety observations
- Incident investigation: immediate, contributing, and root causes
- Root cause analysis tools: 5 Whys, fishbone diagram, fault tree
- Corrective and preventive actions (CAPA) and close-out
- Emergency response planning and drills
- Business continuity and disaster recovery basics

Day 5: Integration, Monitoring, and Continuous Improvement

- Key performance indicators for risk management and loss control
- Monitoring techniques: trend analysis, audits, management reviews
- Continuous improvement: PDCA cycle, feedback loops
- Reporting and communication of risk information
- Integrating risk management into project lifecycles and daily operations
- Review of course and assessment preparation
- Final assessment (written test and/or practical simulation)

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 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 23,000.00	R 23,000.00
1	In-House	R 29,900.00	R 29,900.00
1	On-Campus (Pretoria)	R 34,500.00	R 34,500.00

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 242684) 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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