



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

Disaster Risk Assessment Methods

Business, Commerce and Management Studies / Generic Management

Unit Standard 251967 · NQF Level 5 · 15 Credits · 12 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to systematically identify, analyze, and evaluate disaster risks within various contexts. Participants will learn to apply recognized risk assessment methodologies, interpret findings, and recommend appropriate mitigation strategies to enhance organisational resilience.

Category	Business, Commerce and Management Studies
Subfield	Generic Management
Unit Standard	251967
Accreditation	SAQA Accredited · NQF Level 5 · 15 Credits
Duration	12 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Identify and classify potential disaster hazards relevant to a specific environment.
- Apply appropriate risk assessment methodologies to analyze the likelihood and impact of disasters.
- Evaluate existing control measures and identify gaps in disaster risk management.
- Develop risk treatment plans that prioritise actions based on assessed risk levels.
- Document and communicate risk assessment findings effectively to stakeholders.

WHO SHOULD ATTEND

- This course is designed for safety officers, risk managers, emergency planners, and any professionals responsible for disaster risk assessment in public or private sector organisations.

COURSE OUTLINE

Day 1: Introduction to Disaster Risk Assessment

- Overview of disaster risk management
- SA legal framework: Disaster Management Act, NDMF
- Key concepts: hazard, exposure, vulnerability, capacity, risk
- Types of disasters and their characteristics
- Role of risk assessment in disaster risk reduction

Day 2: Hazard Identification and Analysis

- Classification of hazards
- Hazard identification methods (checklists, historical data, expert judgment)
- Hazard analysis: frequency, magnitude, duration
- Introduction to hazard mapping (GIS basics)
- Hazard prioritization matrices

Day 3: Vulnerability and Capacity Assessment

- Vulnerability frameworks (PAR model, exposure-sensitivity-resilience)
- Data collection for vulnerability indicators
- Participatory vulnerability assessment techniques
- Capacity assessment: resources, skills, institutions
- Vulnerability and capacity mapping

Day 4: Risk Analysis Methodologies

- Qualitative risk assessment: risk registers, matrices
- Quantitative methods: event tree, fault tree analysis
- Probabilistic modeling basics
- Scenario analysis and stress testing
- Risk calculation: $R = H \times V / C$

Day 5: Data Collection and Management for Risk Assessment

- Primary vs secondary data sources
- Surveys, interviews, focus groups, remote sensing
- Database management and GIS data layers
- Data quality assurance
- Ethical issues in data collection

Day 6: Risk Mapping and Spatial Analysis

- GIS fundamentals for disaster risk
- Overlay analysis for multi-hazard mapping
- Creating hazard, vulnerability, and risk maps
- Spatial interpolation techniques
- Using open-source GIS tools

Day 7: Community-Based Disaster Risk Assessment (CBDRA)

- Principles of CBDRA
- Participatory tools: transect walks, seasonal calendars
- Community mapping and historical profiling
- Analyzing community perceptions

- Integrating local and scientific knowledge

Day 8: Climate Change and Disaster Risk Assessment

- Climate change science basics
- Downscaling climate models for local risk
- Climate vulnerability and risk assessment
- Adaptation options and mainstreaming
- Uncertainty in climate risk assessment

Day 9: Technological and Biological Hazard Risk Assessment

- Technological hazard identification (chemical, nuclear)
- Consequence analysis for technological hazards
- Biological hazard assessment (disease spread modeling)
- Risk assessment for critical infrastructure
- Cascading and compound events

Day 10: Risk Communication and Reporting

- Principles of risk communication
- Tailoring messages for different stakeholders
- Writing risk assessment reports
- Visual communication: maps, infographics
- Stakeholder engagement and public participation

Day 11: Integrating Risk Assessment into Disaster Risk Management Planning

- From risk assessment to action plan
- Cost-benefit analysis of risk reduction
- Prioritization frameworks
- Mainstreaming risk into development planning
- Monitoring and evaluation indicators

Day 12: Capstone Project and Course Review

- Capstone project: full risk assessment cycle
- Group presentations and peer feedback
- Course review and knowledge consolidation
- Assessment of learning outcomes
- Next steps and continuous learning

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 **15 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 43,000.00	R 43,000.00
1	In-House	R 56,000.00	R 56,000.00
1	On-Campus (Pretoria)	R 64,600.00	R 64,600.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	18 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	18 Aug 2026	On-Campus	Lagos, Nigeria
04 Aug 2026	19 Aug 2026	On-Campus	Johannesburg, South Africa
05 Aug 2026	20 Aug 2026	On-Campus	Mauritius
06 Aug 2026	21 Aug 2026	On-Campus	Cape Town, South Africa
07 Aug 2026	24 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	25 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	26 Aug 2026	On-Campus	Mauritius

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 251967) 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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