



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

Comprehensive Technical Disaster Impact Assessment

Services / Cleaning, Domestic, Hiring, Property and Rescue Services

Unit Standard 243315 · NQF Level 7 · 15 Credits · 12 Days

COURSE OVERVIEW

This course equips learners with the competencies to conduct comprehensive technical disaster impact assessments. It covers the systematic identification, analysis, and evaluation of potential disaster impacts on infrastructure, environment, and communities, enabling effective mitigation and response planning.

Category	Services
Subfield	Cleaning, Domestic, Hiring, Property and Rescue Services
Unit Standard	243315
Accreditation	SAQA Accredited · NQF Level 7 · 15 Credits
Duration	12 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply relevant legislation, standards, and codes of practice to disaster impact assessments.
- Analyze the potential physical, environmental, and social impacts of identified hazards.
- Evaluate the vulnerability and resilience of infrastructure and communities to disaster events.
- Design a comprehensive disaster impact assessment report with mitigation recommendations.
- Implement appropriate data collection and analysis techniques for impact assessment.
- Demonstrate effective communication of assessment findings to stakeholders.

WHO SHOULD ATTEND

- This course is designed for disaster management practitioners, safety officers, emergency planners, and technical professionals involved in risk assessment and disaster preparedness in various sectors.

COURSE OUTLINE

Day 1: Introduction to Disaster Impact Assessment

- Overview of disaster impact assessment
- SA legal and policy context: Disaster Management Act, National Disaster Management Framework
- Key terminology: hazard, vulnerability, exposure, risk, capacity
- The disaster management cycle: mitigation, preparedness, response, recovery
- Types of disasters: natural, technological, biological, societal
- Role of impact assessment in disaster risk reduction

Day 2: Disaster Risk Assessment Principles

- Risk assessment frameworks: ISO 31000, COSO, and South African guidelines
- Qualitative risk assessment: risk matrices, expert judgment
- Quantitative risk assessment: probability, consequence, expected loss
- Semi-quantitative methods: scoring and ranking
- Data sources: historical records, scientific data, community knowledge
- Case studies: flooding, drought, industrial accidents

Day 3: Hazard Identification and Analysis

- Hazard classification: natural, technological, biological, societal
- Hazard characteristics: spatial extent, intensity, probability, predictability
- Hazard mapping: GIS, remote sensing, historical mapping
- Tools: hazard checklists, scenario analysis, event tree analysis
- Practical examples: seismic hazard, flood hazard, chemical release

Day 4: Vulnerability and Capacity Assessment

- Dimensions of vulnerability: physical, social, economic, environmental
- Vulnerability indicators: demographics, infrastructure, livelihoods
- Participatory vulnerability assessment: focus groups, community mapping
- Capacity assessment: resources, skills, institutions, social capital
- Tools: vulnerability matrix, capacity and vulnerability analysis (CVA)
- Case studies: urban vs rural vulnerability

Day 5: Exposure Assessment and Data Collection

- Elements at risk: people, property, critical facilities, economic activities
- Data collection methods: surveys, remote sensing, census data, administrative records
- GIS for exposure mapping: land use, building footprints, population density
- Data quality: accuracy, completeness, timeliness
- Practical exercise: exposure data collection for a selected area

Day 6: Impact Assessment Methodologies

- Direct impacts: physical damage, casualties
- Indirect impacts: business interruption, supply chain disruption
- Intangible impacts: social, psychological, environmental
- Impact assessment methods: damage functions, loss estimation models
- Scenario analysis: worst-case, most likely, best-case
- Impact matrices and prioritization

Day 7: Economic Impact Assessment

- Direct economic losses: replacement cost, repair cost, asset value
- Indirect economic losses: production losses, service disruption, multiplier effects
- Input-output models and social accounting matrices
- Cost-benefit analysis for risk reduction projects
- Case study: economic impact of a flood event

Day 8: Social and Environmental Impact Assessment

- Social impact assessment: demographics, health, displacement, cultural heritage
- Environmental impact assessment: ecosystems, water, air, soil
- Participatory methods: community consultations, surveys, key informant interviews
- Indicators: mortality, morbidity, food security, housing
- Case studies: oil spill, earthquake

Day 9: Reporting and Communication of Impact Assessment

- Report structure: executive summary, methodology, findings, recommendations
- Tailoring communication: technical reports, policy briefs, community bulletins
- Visual communication: GIS maps, impact graphs, risk matrices
- Ethical issues: confidentiality, sensitivity, do no harm
- Practical exercise: drafting an impact assessment summary

Day 10: Integration with Disaster Risk Management Planning

- Using impact data for risk reduction: land-use planning, building codes
- Contingency planning: scenario-based plans, resource allocation
- Early warning systems: trigger levels based on impact thresholds
- Recovery planning: needs assessment, reconstruction priorities
- Case study: integrating flood impact assessment into municipal planning

Day 11: Advanced Tools and Technologies

- GIS applications: spatial analysis, overlay, buffer zones
- Remote sensing: satellite imagery, damage assessment
- Risk modeling software: CAPRA, HAZUS, InaSAFE
- Big data: social media, mobile phone data for impact estimation
- AI and machine learning: pattern recognition, damage detection
- Limitations: data availability, model uncertainty, cost

Day 12: Practical Integration and Final Assessment

- Group exercise: conduct a mock impact assessment for a selected disaster scenario
- Report writing and presentation to panel
- Peer review and feedback
- Lessons learned and best practices
- Course evaluation 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 **15 NQF credits** at **NQF Level 7**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 47,100.00	R 47,100.00
1	In-House	R 61,300.00	R 61,300.00
1	On-Campus (Pretoria)	R 70,700.00	R 70,700.00

UPCOMING SESSIONS

Start	End	Method	Venue
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	Durban, South Africa
11 Aug 2026	26 Aug 2026	On-Campus	Mauritius
12 Aug 2026	27 Aug 2026	On-Campus	Cape Town, South Africa
13 Aug 2026	28 Aug 2026	On-Campus	Dubai, UAE
14 Aug 2026	31 Aug 2026	On-Campus	Pretoria, South Africa
17 Aug 2026	01 Sep 2026	On-Campus	Durban, 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 243315) 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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