



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

Managing Non-Normal and Emergency Flight Situations

Physical, Mathematical, Computer and Life Sciences / Physical Sciences

Unit Standard 243337 · NQF Level 5 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips flight crew members with the knowledge and skills to effectively manage non-normal and emergency flight situations. It focuses on decision-making, crew coordination, and adherence to standard operating procedures to ensure safety in critical scenarios.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Physical Sciences
Unit Standard	243337
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	7 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply standard operating procedures to manage non-normal and emergency flight situations.
- Analyze the nature and severity of an emergency to determine appropriate corrective actions.
- Evaluate crew resource management strategies to optimize team performance under stress.
- Demonstrate effective communication and coordination during emergency scenarios.
- Implement emergency checklists and protocols to mitigate risks and ensure passenger safety.
- Assess post-incident procedures and reporting requirements for continuous safety improvement.

WHO SHOULD ATTEND

- This course is designed for commercial pilots, flight engineers, and cabin crew members seeking to enhance their ability to handle unexpected flight events.
- It is also suitable for aviation professionals involved in flight operations and safety management.

COURSE OUTLINE

Day 1: Introduction to Non-Normal and Emergency Flight Situations

- Classification of flight situations: normal, abnormal, emergency
- Regulatory framework: SA-CATS, CARs, and ICAO annexes
- Human factors in emergencies: stress, fatigue, and situational awareness
- Crew resource management (CRM) principles
- Decision-making models: DECIDE, FOR-DEC, and 3P
- Case studies: historical non-normal events

Day 2: Systems Failures and Malfunctions

- Engine failures: partial and complete power loss
- Electrical system failures: alternator/generator failure, bus faults
- Hydraulic system failures: loss of pressure, fluid leaks
- Pressurisation and environmental control failures
- Flight control malfunctions: jammed controls, trim runaways
- Warning systems: master caution, aural alerts, ECAM/EICAS
- Checklist usage: memory items vs. reference items

Day 3: Weather-Related Emergencies

- Icing: types, detection, and anti-ice/de-ice systems
- Thunderstorm hazards: turbulence, hail, lightning
- Wind shear and microbursts: recognition and escape manoeuvres
- Reduced visibility: fog, smoke, and dust
- Volcanic ash: detection and avoidance
- Weather radar interpretation and limitations
- Decision-making: diversion, holding, and alternate planning

Day 4: Medical and Physiological Emergencies

- Hypoxia: symptoms, stages, and corrective actions
- Decompression sickness and trapped gas
- Hyperventilation and its management
- First aid for common issues: burns, fractures, heart attacks
- Onboard medical equipment: first aid kits, defibrillators, oxygen
- Crew incapacitation: recognition and assumption of duties
- Communication with medical advisory services

Day 5: Security Threats and Unlawful Interference

- Hijacking: phases, crew responses, and negotiation
- Bomb threats: search procedures and evacuation
- Sabotage and suspicious items
- Disruptive passengers: de-escalation and restraint
- Security communication codes and phrases
- Post-event procedures: landing and handover

Day 6: Emergency Descents, Landings, and Evacuations

- Emergency descent: rapid decompression and fire
- Forced landing: engine failure after takeoff, off-airport landings

- Ditching: preparation, approach, and water landing
- Evacuation procedures: commands, slides, and exits
- Survival equipment: ELTs, life rafts, survival kits
- Firefighting: types of fires and extinguisher use
- Post-accident survival: shelter, water, signalling

Day 7: Integrated Scenario Training and Assessment

- Full-mission scenarios: multi-system failures, weather, security
- Crew coordination and communication during emergencies
- Time-critical decision-making and prioritisation
- Post-incident reporting and debriefing
- Regulatory compliance and documentation
- Final assessment: simulated emergency handling
- Course wrap-up and feedback

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 29,600.00	R 29,600.00
1	In-House	R 38,500.00	R 38,500.00
1	On-Campus (Pretoria)	R 44,400.00	R 44,400.00

UPCOMING SESSIONS

No sessions are currently scheduled. Please contact us to arrange a session at a time and location that suits your team.

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 243337) 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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