



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

Multi-Engine Helicopter IMC and VMC Pilot

Physical, Mathematical, Computer and Life Sciences / Physical Sciences

Unit Standard 243755 · NQF Level 6 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips pilots with the advanced skills and knowledge required to safely operate a multi-engine helicopter in both Instrument Meteorological Conditions (IMC) and Visual Meteorological Conditions (VMC). Learners will master multi-engine aerodynamics, engine-out procedures, instrument flight techniques, and decision-making in complex airspace and weather environments. The training ensures compliance with South African Civil Aviation Authority (SACAA) regulations and prepares pilots for the multi-engine instrument rating (ME IR) endorsement.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Physical Sciences
Unit Standard	243755
Accreditation	SAQA Accredited · NQF Level 6 · 5 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply multi-engine helicopter aerodynamics and performance principles during normal and engine-out operations.
- Demonstrate precision instrument flight techniques, including approaches, holds, and missed approaches in IMC.
- Analyze weather conditions and aeronautical information to make sound go/no-go decisions.
- Evaluate emergency scenarios and execute appropriate engine-out procedures, including asymmetric thrust management.
- Implement crew resource management (CRM) principles to enhance safety and communication in multi-crew operations.
- Design flight plans and conduct pre-flight inspections in compliance with SACAA regulations and company standard operating procedures.

WHO SHOULD ATTEND

- This course is designed for licensed helicopter pilots seeking to add a multi-engine instrument rating (ME IR) to their qualifications.
- It is ideal for commercial pilots, charter operators, and corporate flight departments requiring multi-engine IMC capability.

COURSE OUTLINE

Day 1: Foundations of Multi-Engine Helicopter Operations and IMC Procedures

- Multi-engine helicopter aerodynamics: lift, drag, and thrust asymmetry.
- Critical engine concept and VMCA (minimum control speed in air).
- Engine failure recognition and immediate action drills.
- Single-engine performance and drift-down procedures.
- IMC regulations: minima, alternate requirements, and fuel planning.
- Instrument scan techniques: control-performance and primary-secondary.
- Partial panel flying and unusual attitude recovery.
- Risk management and decision-making for engine failures in IMC.

Day 2: Advanced IMC Operations and Practical Integration

- Precision and non-precision instrument approaches with one engine inoperative.
- Navigation failure procedures: radio, GPS, and INS.
- Communication failure procedures: light signals and lost comms.
- Missed approach and go-around techniques with asymmetric thrust.
- Crew resource management: roles, communication, and workload distribution.
- Emergency descent and autorotation from IMC.
- VMC maneuvers: steep turns, slow flight, and stalls.
- Scenario-based training: engine failure on takeoff, en route, and approach.

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 **5 NQF credits** at **NQF Level 6**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 16,900.00	R 16,900.00
1	In-House	R 22,000.00	R 22,000.00
1	On-Campus (Pretoria)	R 25,400.00	R 25,400.00

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 243755) 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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