



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

Advanced Helicopter Manoeuvres and Procedures

Physical, Mathematical, Computer and Life Sciences / Physical Sciences

Unit Standard 243750 · NQF Level 5 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips helicopter pilots with the advanced skills and knowledge required to safely perform complex manoeuvres and emergency procedures. Learners will master techniques such as autorotations, slope landings, and confined area operations, ensuring compliance with civil aviation regulations and enhancing flight safety.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Physical Sciences
Unit Standard	243750
Accreditation	SAQA Accredited · NQF Level 5 · 5 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate advanced autorotation procedures, including engine-off landings from various altitudes and configurations.
- Analyze and execute slope landings and takeoffs on gradients up to 15 degrees while maintaining safe rotor clearance.
- Evaluate environmental factors and perform confined area operations, including pinnacle and ridge landings.
- Apply emergency procedures for tail rotor failures, hydraulic failures, and engine malfunctions in single- and multi-engine helicopters.
- Design a personal risk assessment plan for advanced manoeuvres, incorporating weather, terrain, and aircraft performance limitations.

WHO SHOULD ATTEND

- This course is designed for licensed helicopter pilots seeking to upgrade their skills for commercial or advanced operations.
- It is ideal for pilots preparing for instrument ratings, instructor ratings, or specialized roles in aerial work.

COURSE OUTLINE

Day 1: Advanced Helicopter Aerodynamics and Emergency Manoeuvres

- Review of rotor aerodynamics: translational lift, vortex ring state, retreating blade stall
- Advanced autorotation techniques: entry, glide, flare, and touchdown
- Steep approaches and go-arounds: power management and attitude control
- Tail rotor failures: anti-torque control with pedals and coordinated turns
- Hydraulic system failures: manual reversion and control forces
- Emergency procedures: engine failure after takeoff, low rotor RPM recovery

Day 2: Complex Procedures and Practical Integration

- Confined area operations: approach angles, obstacle clearance, and power checks
- Pinnacle and ridgeline landings: touchdown point selection and escape routes
- Slope landings: uphill/downhill techniques, cyclic and collective coordination
- Multi-engine failure management: single-engine performance and landing
- System malfunctions: electrical fire, smoke evacuation, and fuel management
- Scenario-based training: combining manoeuvres under simulated operational conditions

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 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 16,200.00	R 16,200.00
1	In-House	R 21,000.00	R 21,000.00
1	On-Campus (Pretoria)	R 24,300.00	R 24,300.00

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 243750) 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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