



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

Helicopter Pre-Flight Planning Procedures

Physical, Mathematical, Computer and Life Sciences / Physical Sciences

Unit Standard 243752 · NQF Level 5 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips helicopter pilots and ground crew with the essential procedures for thorough pre-flight planning. It covers regulatory requirements, weight and balance calculations, weather assessment, route planning, and emergency contingencies to ensure safe and efficient flight operations.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Physical Sciences
Unit Standard	243752
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 regulatory and organisational requirements for helicopter pre-flight planning.
- Analyze weather conditions and NOTAMs to assess flight safety.
- Calculate weight and balance to ensure helicopter performance within limits.
- Design a flight route incorporating fuel planning, alternate airports, and airspace considerations.
- Evaluate risk factors and implement mitigation strategies for identified hazards.
- Demonstrate completion of pre-flight planning documentation and briefings.

WHO SHOULD ATTEND

- Helicopter pilots, flight operations officers, and ground crew involved in pre-flight planning for rotary-wing aircraft.

COURSE OUTLINE

Day 1: Introduction to Pre-Flight Planning

- Overview of pre-flight planning procedures
- Regulatory framework (CAA, ICAO, SA-CATS)
- Key documents: flight plan, weight and balance, performance calculations
- Introduction to weather sources and interpretation
- Risk management principles in aviation

Day 2: Weather and Environmental Factors

- Reading and decoding aviation weather reports
- Understanding atmospheric phenomena affecting helicopters
- Weather hazards: icing, thunderstorms, wind shear
- Weather decision-making and alternate planning
- Practical weather briefing exercise

Day 3: Weight and Balance, Performance Calculations

- Weight and balance theory and calculations
- Performance charts: hover ceiling, climb, cruise
- Effects of altitude, temperature, and humidity
- Fuel planning and reserves
- Practical weight and balance exercise

Day 4: Route Planning and Navigation

- Aeronautical charts and symbols
- Airspace classification and special use airspace
- Navigation techniques: dead reckoning, VOR, GPS
- Route selection and alternate planning
- Practical route planning exercise

Day 5: NOTAMs, ATC Procedures, and Flight Plan Filing

- NOTAMs: types, decoding, and application
- ATC procedures for helicopter operations
- Flight plan forms and electronic filing
- Communication with ATC during planning
- Practical flight plan filing exercise

Day 6: Risk Assessment and Decision Making

- Risk assessment frameworks (PAVE, CARE, TEAM)
- Hazard identification and mitigation strategies
- Decision-making models and human factors
- Crew resource management (CRM) principles
- Case studies of planning-related incidents

Day 7: Integrated Planning and Practical Assessment

- Full pre-flight planning scenario from start to finish
- Presentation and peer review of flight plans
- Instructor-led debrief and feedback
- Review of key concepts and common errors

- Written assessment on planning procedures

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 243752) 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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