



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

Perform Pre Flight Planning For Small Aeroplane Training

Law, Military Science and Security / Safety in Society

Unit Standard 120147 · NQF Level 5 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips pilots with the essential skills and knowledge to conduct thorough pre-flight planning for small aeroplane operations. It covers route selection, fuel calculation, weight and balance, weather assessment, and regulatory compliance to ensure safe and efficient flights.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	120147
Accreditation	SAQA Accredited · NQF Level 5 · 6 Credits
Duration	3 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply principles of aeronautical decision-making to pre-flight planning scenarios.
- Analyze weather reports and forecasts to determine flight suitability.
- Calculate aircraft weight and balance, fuel requirements, and performance data.
- Evaluate airspace classifications and NOTAMs for route planning.
- Demonstrate completion of a flight plan and pre-flight checklist.
- Implement risk management strategies for identified hazards.

WHO SHOULD ATTEND

- This course is designed for student pilots, private pilots, and commercial pilots who operate or intend to operate small aeroplanes in South Africa.

COURSE OUTLINE

Day 1: Foundational Principles of Pre-Flight Planning

- Overview of SA-CATS and CAR Part 135 pre-flight planning requirements.
- Aeroplane flight manual: limitations, performance data, and operating procedures.
- Meteorological reports (TAF, METAR) and NOTAMs: interpretation and application.
- Weight and balance principles: centre of gravity limits and calculations.
- Fuel planning: en-route consumption, reserves, and alternate fuel requirements.
- Route selection: aerodrome data, airspace classification, and terrain considerations.
- Introduction to flight planning forms and documentation.
- Practical exercise: complete a basic pre-flight planning worksheet.

Day 2: Performance Planning and Risk Assessment

- Takeoff performance: runway length, temperature, pressure altitude, and wind.
- Landing performance: distance, condition, and braking action.
- Obstacle clearance: climb gradients and departure procedures.
- En-route performance: cruise altitude selection, time, and fuel.
- Risk assessment: PAVE (Pilot, Aircraft, Environment, External pressures) checklist.
- Weather minima: VFR and IFR criteria for departure, en-route, and destination.
- Alternate aerodrome selection: distance, facilities, and weather.
- Practical exercise: calculate full performance plan for a cross-country flight.

Day 3: Integrated Planning and Practical Application

- Compilation of flight plan: route, altitude, time, fuel, and alternates.
- Weather briefing: using aviation weather services for decision-making.
- Fuel management: contingency fuel, in-flight re-evaluation.
- Pre-flight briefing: pilot, passengers, and crew coordination.
- Contingency planning: diversions, emergencies, and alternate strategies.
- Case studies: real-world scenarios and planning errors.
- Practical exercise: complete a full pre-flight plan and present briefing.
- Assessment: written test and practical demonstration of planning process.

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

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 18,800.00	R 18,800.00
1	In-House	R 24,500.00	R 24,500.00
1	On-Campus (Pretoria)	R 28,100.00	R 28,100.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	12 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	12 Aug 2026	On-Campus	Mauritius
11 Aug 2026	13 Aug 2026	On-Campus	Abu Dhabi, UAE
11 Aug 2026	13 Aug 2026	On-Campus	Cape Town, South Africa
12 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
12 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	19 Aug 2026	On-Campus	Harare, Zimbabwe
17 Aug 2026	19 Aug 2026	On-Campus	Abu Dhabi, UAE

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 120147) 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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