



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

Aircraft Orientation and Aviation Basics Explained

Physical, Mathematical, Computer and Life Sciences / Physical Sciences

Unit Standard 261198 · NQF Level 3 · 9 Credits · 6 Days

COURSE OVERVIEW

This course provides learners with the foundational knowledge required to explain aircraft orientation and related aspects. It covers the basic components of an aircraft, their functions, and the principles of aircraft orientation to ensure safe and effective communication in aviation environments.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Physical Sciences
Unit Standard	261198
Accreditation	SAQA Accredited · NQF Level 3 · 9 Credits
Duration	6 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Identify and describe the main components of an aircraft and their functions.
- Explain the principles of aircraft orientation, including axes, movements, and control surfaces.
- Apply correct terminology to describe aircraft positions and directions.
- Demonstrate understanding of basic aviation safety practices related to aircraft orientation.
- Analyze the relationship between aircraft design and operational capabilities.

WHO SHOULD ATTEND

- This course is designed for individuals entering the aviation industry, including ground staff, cabin crew trainees, and maintenance personnel who require a fundamental understanding of aircraft orientation.

COURSE OUTLINE

Day 1: Introduction to Aviation and Aircraft Basics

- History of aviation and key milestones.
- Categories of aircraft: fixed-wing, rotary-wing, lighter-than-air.
- Principles of flight: lift, weight, thrust, drag.
- Aircraft structure: fuselage, wings, empennage, powerplant, landing gear.
- Basic aviation terms: airspeed, altitude, heading, attitude.
- Overview of aviation organisations (ICAO, CAA).

Day 2: Aircraft Systems and Operations

- Aircraft systems: electrical, hydraulic, pneumatic, fuel.
- Flight controls: primary (aileron, elevator, rudder) and secondary (flaps, slats, spoilers).
- Avionics: navigation, communication, transponders.
- Powerplants: piston engines, turbine engines (turbojet, turbofan, turboprop).
- Aircraft performance: takeoff, climb, cruise, landing.
- Weight and balance principles.

Day 3: Aviation Safety and Human Factors

- Safety regulations: ICAO Annexes, CARs, and SA-CATS.
- Human factors: the SHEL model, fatigue, stress, situational awareness.
- Crew resource management (CRM) and communication.
- Emergency procedures: engine failure, fire, depressurisation.
- Safety equipment: life vests, rafts, oxygen masks.
- Safety management systems (SMS): hazard identification, risk assessment.

Day 4: Airport Operations and Ground Handling

- Airport components: runways, taxiways, aprons, terminals.
- Ground handling: marshalling, towing, refuelling, baggage handling.
- Air traffic control: tower, ground, approach, en route.
- Radio communication phraseology.
- Airport signage, markings, and lighting.
- Aviation security: access control, screening, restricted areas.

Day 5: Navigation and Flight Planning

- Navigation basics: latitude, longitude, true vs magnetic north.
- Aeronautical charts: VFR and IFR charts, symbols.
- Navigation aids: VOR, NDB, GPS, ILS.
- Flight planning: route selection, fuel calculation, NOTAMs.
- Meteorology for aviation: weather charts, METARs, TAFs.
- Flight plan filing and ATC coordination.

Day 6: Integration and Practical Application

- Review of key concepts across all modules.
- Case studies: accident analysis and lessons learned.
- Simulated scenario: pre-flight inspection, start-up, taxi.
- Simulated scenario: in-flight emergency response.
- Career paths in aviation: pilot, engineer, ATC, ground staff.

- Assessment 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 **9 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 25,600.00	R 25,600.00
1	In-House	R 33,300.00	R 33,300.00
1	On-Campus (Pretoria)	R 38,400.00	R 38,400.00

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 261198) 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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