



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Instrument Flying Manoeuvres for Pilots

Physical, Mathematical, Computer and Life Sciences / Physical Sciences

Unit Standard 243327 · NQF Level 5 · 15 Credits · 12 Days

COURSE OVERVIEW

This course equips pilots with the skills to safely and accurately control an aircraft solely by reference to flight instruments, without external visual cues. It focuses on developing proficiency in basic and advanced instrument manoeuvres essential for instrument flight rules (IFR) operations.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Physical Sciences
Unit Standard	243327
Accreditation	SAQA Accredited · NQF Level 5 · 15 Credits
Duration	12 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to maintain straight-and-level flight, climbs, descents, and turns by sole reference to instruments.
- Apply instrument cross-check and interpretation techniques to maintain aircraft control during unusual attitude recoveries.
- Analyze instrument indications to perform precision and non-precision approaches without external visual references.
- Evaluate aircraft performance and system malfunctions using instrument readings and execute appropriate emergency procedures.
- Implement proper scanning techniques to manage instrument workload and maintain situational awareness.
- Design a personal instrument proficiency plan to sustain competency in instrument flying manoeuvres.

WHO SHOULD ATTEND

- This course is designed for licensed private or commercial pilots who wish to obtain or renew their instrument rating, or who require proficiency in instrument flying for professional development.

COURSE OUTLINE

Day 1: Introduction to Instrument Flying and Basic Attitude Instrument Flying

- Overview of instrument flying regulations and requirements
- The six basic flight instruments: pitot-static and gyroscopic
- Principles of attitude instrument flying
- Instrument scan techniques: cross-check, interpretation, and control
- Common instrument errors and failures

Day 2: Instrument Scan Techniques and Partial Panel Operations

- Primary and supporting instrument scan
- Techniques for partial panel: using turn coordinator, altimeter, and airspeed
- Recovery from unusual attitudes on partial panel
- Simulated instrument failures and emergency procedures

Day 3: Straight-and-Level Flight and Trim Techniques

- Establishing and maintaining straight-and-level flight
- Power and attitude relationships
- Trim techniques for coordinated flight
- Altitude and heading corrections

Day 4: Climbs, Descents, and Level-off Procedures

- Constant airspeed climbs and descents
- Level-off from climbs and descents
- Changes in configuration: flaps, landing gear
- Power management for climb and descent

Day 5: Turns, Steep Turns, and Climbing/Descending Turns

- Standard rate turns: lead and rollout
- Steep turns: bank angle and altitude control
- Climbing and descending turns
- Unusual attitude recovery in turns

Day 6: Instrument Approaches: VOR and NDB Procedures

- VOR approach: tracking radials, station passage
- NDB approach: ADF orientation, homing, and tracking
- Approach plate reading and briefings
- Missed approach procedures

Day 7: ILS Approaches and Precision Approach Techniques

- ILS principles: localizer, glideslope, marker beacons
- Flying the ILS: intercepting and tracking
- Decision altitude/height and missed approach
- ILS categories and limitations

Day 8: Holding Procedures and DME Arcs

- Holding pattern entry and procedures
- Timing and wind correction
- DME arc: lead points and tracking
- Holding in lieu of procedure turn

Day 9: Unusual Attitude Recovery and Emergency Procedures

- Unusual attitude recognition: nose-high, nose-low, bank
- Recovery techniques: power, pitch, bank
- Spatial disorientation and countermeasures
- Emergency procedures: vacuum failure, static blockage

Day 10: IFR Cross-Country Planning and Navigation

- IFR flight planning: route, altitude, fuel
- Weather minimums and alternate requirements
- ATC clearances and communication
- GPS and RNAV navigation

Day 11: IFR Communications and ATC Procedures

- IFR radio phraseology and procedures
- ATC clearances: departure, en route, approach
- Lost communications procedures
- Practice with simulated ATC scenarios

Day 12: Integrated IFR Scenario and Practical Assessment

- Full IFR flight scenario: departure, en route, approach
- In-flight emergencies and diversions
- Practical assessment of instrument flying skills
- Debrief 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 **15 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 43,000.00	R 43,000.00
1	In-House	R 56,000.00	R 56,000.00
1	On-Campus (Pretoria)	R 64,600.00	R 64,600.00

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 243327) 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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