



## 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

# Low Level Flying Operations

Physical, Mathematical, Computer and Life Sciences / Physical Sciences

Unit Standard 243328 · NQF Level 5 · 9 Credits · 6 Days

## COURSE OVERVIEW

This course equips pilots and flight operations personnel with the specialised skills and knowledge required to execute low level flying operations safely and effectively. It covers risk assessment, situational awareness, and compliance with South African Civil Aviation Authority (SACAA) regulations, ensuring operational efficiency and safety in low-level environments.

|                 |                                                    |
|-----------------|----------------------------------------------------|
| Category        | Physical, Mathematical, Computer and Life Sciences |
| Subfield        | Physical Sciences                                  |
| Unit Standard   | 243328                                             |
| Accreditation   | SAQA Accredited · NQF Level 5 · 9 Credits          |
| Duration        | 6 days                                             |
| Training Method | Online, On-Campus, In-House                        |
| Certificate     | Issued via AATICD LMS – verifiable online          |

## LEARNING OUTCOMES

- Demonstrate compliance with SACAA regulations and airspace requirements for low level flying.
- Apply risk assessment and hazard identification techniques specific to low level operations.
- Execute pre-flight planning and in-flight decision-making to manage terrain, obstacles, and weather.
- Implement emergency procedures and contingency plans during low level flight.
- Evaluate aircraft performance limitations and environmental factors affecting low level flight.
- Demonstrate effective crew resource management (CRM) and communication during low level operations.

## WHO SHOULD ATTEND

- This course is designed for licensed pilots, flight instructors, and aviation operations staff who are involved in or preparing for low level flying operations, including agricultural, survey, patrol, or training flights.

## COURSE OUTLINE

### Day 1: Introduction to Low Level Flying and Regulatory Framework

- Definition of low level flying (LLF) and its applications.
- SACAA regulations governing LLF (Part 91, 94, 127, etc.).
- Airspace classifications and restrictions relevant to LLF.
- Environmental and noise abatement considerations.
- Risk assessment and hazard identification in LLF.
- Human factors: visual illusions, spatial disorientation.
- Case studies of LLF incidents and lessons learned.
- Introduction to mission planning for LLF.

### Day 2: Aircraft Performance and Limitations for Low Level Flight

- Performance charts: takeoff, climb, cruise, landing.
- Effects of temperature, pressure, humidity on performance.
- Weight and balance considerations for LLF.
- Power settings and fuel management.
- Stall characteristics and recovery at low altitude.
- Engine failure procedures and forced landing techniques.
- Maneuvering limitations: load factor, airspeed margins.
- Use of performance planning software.

### Day 3: Navigation and Situational Awareness in Low Level Operations

- Map reading and terrain association at low altitude.
- Use of GPS and moving map displays.
- Altitude management and obstacle clearance.
- Visual scanning techniques for collision avoidance.
- Bird strike awareness and avoidance.
- Radio procedures: frequency changes, position reporting.
- Coordination with air traffic control and other airspace users.
- Emergency navigation: loss of GPS, diversion planning.

### Day 4: Mission Planning and Risk Management for Low Level Flying

- Weather forecasting and interpretation for LLF.
- NOTAMs and airspace restrictions.
- Fuel planning and alternate aerodromes.
- Crew resource management (CRM) for single-pilot LLF.
- Threat and error management (TEM).
- Fatigue management and fitness for duty.
- Pre-flight inspection and aircraft documentation.
- Briefing and debriefing techniques.

### Day 5: Practical Application and Simulated Low Level Scenarios

- Simulator setup and briefing for LLF scenarios.
- Low level navigation exercises.
- Obstacle avoidance and terrain following.
- Simulated engine failure and forced landing.
- Bird strike and other emergency procedures.

- Radio communication drills.
- Scenario-based training: agricultural spraying, pipeline patrol.
- Debriefing and performance analysis.

#### Day 6: Integration, Assessment, and Certification

- Final planning exercise: full mission from briefing to debrief.
- Written examination: 50 multiple-choice questions.
- Practical flight test: low level navigation and emergency procedures.
- Review of common errors and best practices.
- Certification requirements and logbook endorsements.
- Resources for ongoing learning: manuals, online courses.
- Course evaluation and feedback.
- Issue of certificate of completion.

## 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 5**.

## PRICING (PER DELEGATE, EX-VAT)

| Delegates | Training Method      | Price per Delegate | Total       |
|-----------|----------------------|--------------------|-------------|
| 1         | Online               | R 26,900.00        | R 26,900.00 |
| 1         | In-House             | R 35,000.00        | R 35,000.00 |
| 1         | On-Campus (Pretoria) | R 40,300.00        | R 40,300.00 |

## 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](http://www.aaticd.co.za), open the page for this course (Unit Standard 243328) 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](mailto: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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