



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

Multi-Pilot Aeroplane Take-offs Landings and Go-arounds

Physical, Mathematical, Computer and Life Sciences / Physical Sciences

Unit Standard 243292 · NQF Level 6 · 14 Credits · 11 Days

COURSE OVERVIEW

This course equips pilots with the advanced skills required to safely perform take-offs, landings, and go-arounds in multi-pilot aeroplane environments. It focuses on crew coordination, standard operating procedures, and decision-making to ensure operational safety and efficiency.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Physical Sciences
Unit Standard	243292
Accreditation	SAQA Accredited · NQF Level 6 · 14 Credits
Duration	11 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to perform take-offs, landings, and go-arounds in a multi-pilot aeroplane in accordance with standard operating procedures.
- Apply effective crew resource management principles during all phases of take-off, landing, and go-around.
- Analyze and manage threats and errors during approach and landing to ensure safe outcomes.
- Evaluate and execute go-around decisions based on situational awareness and standard callouts.
- Demonstrate proficiency in handling abnormal and emergency situations during take-off, landing, and go-around.
- Implement effective communication and coordination with other crew members during multi-pilot operations.

COURSE OUTLINE

Day 1: Introduction to Multi-Pilot Operations and Aerodynamics

- Overview of multi-pilot operations and regulatory requirements (SAQA, CAA)
- Aerodynamic principles: lift, drag, thrust, weight, ground effect
- Take-off and landing performance factors: weight, altitude, temperature, runway conditions
- Roles and responsibilities of PF and PM
- Introduction to SOPs and checklists
- CRM fundamentals: communication, decision-making, situational awareness

Day 2: Pre-Take-off Procedures and Briefings

- Pre-flight planning: NOTAMs, weather, fuel, weight and balance
- Take-off performance calculations using charts
- Standard briefings: take-off, rejected take-off, emergency procedures
- Taxi procedures: communication, navigation, and sterile cockpit
- Pre-take-off checklists and flow patterns
- Crew coordination techniques during ground operations

Day 3: Normal Take-offs in Multi-Pilot Environment

- Normal take-off procedures: thrust setting, acceleration checks, rotation
- Callouts and standard phraseology for PF and PM
- Instrument scan and systems monitoring during take-off
- Crosswind take-off techniques: aileron input, rudder control
- Reduced thrust take-offs: procedures and considerations
- Initial climb and acceleration to flap retraction speed

Day 4: Rejected Take-offs and Engine Failures

- V1 concept: decision speed, accelerate-stop distance
- Rejected take-off procedures: throttles idle, brakes, reverse thrust, spoilers
- Engine failure after V1: climb gradient, drift-down, and contingency procedures
- Emergency checklists and memory items
- High-speed RTO: braking techniques and directional control
- Simulator practice: multiple RTO and engine failure scenarios

Day 5: Approach and Landing Briefings

- Approach briefing structure: type, weather, speeds, minima, missed approach
- Landing performance calculations: distance, weight, runway condition
- Stabilized approach criteria: speed, configuration, path
- Go-around decision points and callouts
- Approach charts: ILS, VOR, NDB, visual approaches
- Crew coordination during approach planning

Day 6: Normal and Crosswind Landings

- Normal landing procedure: approach, flare, touchdown, rollout
- Crosswind landing techniques: crab, sideslip, and combination
- Thrust management: idle reverse, beta range
- Flap and speed brake usage during landing
- Callouts: altitude, sink rate, drift, and clearance

- Landing in gusty or variable wind conditions

Day 7: Short-Field and Soft-Field Landings

- Short-field landing technique: approach speed, touchdown point, maximum braking
- Soft-field landing technique: power-on approach, gentle touchdown
- Landing distance calculations for short runways
- Contaminated runway operations: hydroplaning, braking action
- Crew coordination during non-normal landing procedures
- Simulator practice: short and soft field landings

Day 8: Go-Around Procedures and Missed Approaches

- Go-around procedure: thrust application, pitch attitude, flap retraction
- Missed approach procedures: climb gradient, navigation, ATC coordination
- Callouts and PF/PM roles during go-around
- Engine failure during go-around: single-engine go-around technique
- Go-around decision criteria: unstable approach, wind shear, traffic
- Simulator practice: multiple go-around scenarios

Day 9: Non-Normal Take-off and Landing Operations

- System failures: hydraulic, electrical, flight control malfunctions
- Take-off with degraded automation: manual thrust, no autopilot
- Landing with degraded systems: manual reversion, alternate gear extension
- Non-normal checklists and crew coordination
- Effects of configuration changes on take-off and landing distances
- Simulator practice: system failures during take-off and landing

Day 10: Advanced Scenarios and Crew Resource Management

- Complex scenarios: wind shear, bird strike, rejected landing, low visibility
- Advanced CRM: workload distribution, communication barriers, leadership
- Post-flight debriefing techniques: feedback, error analysis
- Human factors: fatigue, stress, situational awareness
- Decision-making models: FOR-DEC, 3P
- Simulator practice: integrated scenarios with debrief

Day 11: Final Assessment and Course Review

- Practical assessment: take-offs, landings, go-arounds, emergencies
- Crew coordination and CRM evaluation
- Review of critical knowledge areas: performance, procedures, regulations
- Individual feedback and remedial training if needed
- Course summary and certification process
- Recurrent training requirements and future learning paths

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 **14 NQF credits** at **NQF Level 6**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 42,200.00	R 42,200.00
1	In-House	R 54,900.00	R 54,900.00
1	On-Campus (Pretoria)	R 63,400.00	R 63,400.00

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 243292) 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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