



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

Reduced Vertical Separation Minimums (RVSM) Operations

Physical, Mathematical, Computer and Life Sciences / Physical Sciences

Unit Standard 243291 · NQF Level 6 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips aviation professionals with the knowledge and skills to operate in Reduced Vertical Separation Minimums (RVSM) airspace. Learners will understand the technical, operational, and regulatory requirements for RVSM operations, ensuring safe and efficient flight in designated airspace. The course aligns with SAQA Unit Standard 243291 and prepares participants for compliance with international aviation standards.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Physical Sciences
Unit Standard	243291
Accreditation	SAQA Accredited · NQF Level 6 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Explain the principles and benefits of Reduced Vertical Separation Minimums (RVSM) in airspace management.
- Apply RVSM operational requirements including aircraft equipment, performance, and crew procedures.
- Analyze RVSM airspace structure and identify non-compliant scenarios and contingency actions.
- Demonstrate pre-flight and in-flight RVSM procedures including altitude keeping and contingency planning.
- Evaluate the impact of turbulence, weather, and system failures on RVSM operations.
- Implement RVSM compliance documentation and reporting as per regulatory standards.

WHO SHOULD ATTEND

- This course is designed for pilots, air traffic controllers, and aviation maintenance personnel who require RVSM operational authorization or wish to deepen their understanding of RVSM procedures.

COURSE OUTLINE

Day 1: Introduction to RVSM and Airspace Concepts

- Evolution of air traffic management and need for RVSM
- RVSM airspace: FL290 to FL410
- Basic principles of vertical separation
- Aircraft height-keeping systems overview
- Regulatory framework: ICAO, FAA, EASA, SACAA
- RVSM approval categories: aircraft, operator, crew

Day 2: RVSM Aircraft Systems and Performance Requirements

- Altimetry system components: air data computer, static ports, transducers
- Altitude alerting and reporting systems
- Height-keeping performance: Total Vertical Error (TVE), Altimetry System Error (ASE), Assigned Altitude Deviation (AAD)
- RVSM equipment list: dual altimeters, transponders, TCAS
- Minimum Equipment List (MEL) for RVSM
- Aircraft monitoring and data collection

Day 3: Flight Planning, Contingency Procedures, and Operational Approval

- Flight planning for RVSM: route, wind, turbulence
- Contingency procedures: loss of RVSM capability, turbulence penetration
- Operator approval: application, validation, continued compliance
- Pre-flight inspection and logbook entries
- In-flight procedures: altitude changes, crossing traffic
- Communication with ATC during RVSM operations

Day 4: Crew Training, Human Factors, and Safety Management

- Crew training syllabus: theory, simulator, line operations
- Human factors: fatigue, situational awareness, communication
- Threat and error management in RVSM
- Safety reporting and incident analysis
- Case studies: RVSM altitude deviations and near-misses
- SMS integration: hazard identification, risk assessment

Day 5: Practical Integration, Review, and Assessment

- Scenario-based exercises: normal and abnormal RVSM operations
- Simulated ATC communications and coordination
- RVSM documentation review: manuals, checklists
- Assessment: written test and practical scenario
- Course wrap-up and feedback
- Recurrent training requirements and resources

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 **8 NQF credits** at **NQF Level 6**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 25,300.00	R 25,300.00
1	In-House	R 32,900.00	R 32,900.00
1	On-Campus (Pretoria)	R 38,000.00	R 38,000.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	21 Aug 2026	On-Campus	Pretoria, South Africa

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 243291) 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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