



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

Air Power Fundamentals and Applications

Law, Military Science and Security / Sovereignty of the State

Unit Standard 257136 · NQF Level 5 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips learners with foundational knowledge of air power, its historical evolution, and its strategic application in modern military and security contexts. Participants will understand the core principles of air power, including its roles in offensive and defensive operations, and its integration with other military domains. The course prepares learners to analyze and apply air power concepts in operational planning and decision-making.

Category	Law, Military Science and Security
Subfield	Sovereignty of the State
Unit Standard	257136
Accreditation	SAQA Accredited · NQF Level 5 · 10 Credits
Duration	7 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate understanding of the historical development and key principles of air power.
- Analyze the roles of air power in offensive, defensive, and support operations.
- Evaluate the integration of air power with land, sea, and space domains.
- Apply air power concepts to contemporary security challenges and operational scenarios.
- Assess the impact of technological advancements on air power capabilities and doctrine.

WHO SHOULD ATTEND

- This course is designed for military personnel, defense analysts, security professionals, and anyone seeking to understand the strategic and operational dimensions of air power.
- It is also suitable for students of military science or those pursuing careers in defense and security.

COURSE OUTLINE

Day 1: Introduction to Air Power and Basic Principles

- Definition and historical context of air power
- Key attributes: speed, reach, height, and flexibility
- Principles of flight: Bernoulli, Newton, and basic aerodynamics
- Roles: air superiority, strike, reconnaissance, transport
- Organisational structure: air force, army aviation, naval aviation
- Introduction to air power doctrine

Day 2: Air Power Doctrine and Strategy

- Historical development of air power doctrine
- Theorists: Douhet (strategic bombing), Mitchell (air supremacy), Warden (five rings)
- Levels of war: strategic, operational, tactical
- Principles of war: objective, offensive, mass, economy of force
- Joint operations: air-land, air-sea integration
- Case studies: Gulf War, Kosovo

Day 3: Air Power Platforms and Systems

- Fighter aircraft: air superiority, multirole
- Bombers: strategic, tactical
- Transport: airlift, air-to-air refuelling
- Unmanned aerial systems: reconnaissance, combat
- Electronic warfare: jamming, deception
- Air defence systems: surface-to-air missiles, radar
- Support systems: logistics, maintenance

Day 4: Air Operations Planning and Command

- Air tasking order (ATO) cycle: planning, execution, assessment
- Command and control: air operations centre (AOC), tactical control
- Air campaign planning: targeting, weaponeering
- Intelligence, surveillance, reconnaissance (ISR): sensors, platforms
- Effects-based operations (EBO): desired effects vs. targets
- Joint targeting process: target development, validation

Day 5: Air Power in Joint and Combined Operations

- Close air support (CAS) and air interdiction
- Air power in maritime operations: anti-surface, anti-submarine
- Peace support: air policing, humanitarian aid
- Coalition operations: interoperability, standardisation
- Law of armed conflict (LOAC): targeting, proportionality
- Rules of engagement (ROE): application in air operations
- Case studies: Afghanistan, Libya

Day 6: Air Power and Technology Trends

- Stealth technology: low observability, radar cross-section
- Hypersonic weapons: speed, challenges
- Artificial intelligence: autonomous systems, decision support

- Cyber warfare: vulnerabilities, electronic attack
- Space domain: satellite communications, GPS, ISR
- Network-centric warfare: data links, situational awareness
- Fifth-generation aircraft: F-35, Su-57 capabilities

Day 7: Air Power Integration and Future Challenges

- Integrated air power: combining platforms, doctrine, and strategy
- Future threats: anti-access/area denial (A2/AD), terrorism
- Counter-insurgency: air power in irregular warfare
- Budgetary challenges: cost of modernisation, sustainment
- Scenario analysis: group presentation on a current conflict
- Course review and assessment

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 **10 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 21,700.00	R 21,700.00
1	In-House	R 28,200.00	R 28,200.00
1	On-Campus (Pretoria)	R 32,600.00	R 32,600.00

UPCOMING SESSIONS

Start	End	Method	Venue
18 Aug 2026	26 Aug 2026	On-Campus	Harare, Zimbabwe
18 Aug 2026	26 Aug 2026	On-Campus	Dubai, UAE
19 Aug 2026	27 Aug 2026	On-Campus	Pretoria, South Africa
20 Aug 2026	28 Aug 2026	On-Campus	Abu Dhabi, UAE
21 Aug 2026	31 Aug 2026	On-Campus	Durban, South Africa
24 Aug 2026	01 Sep 2026	On-Campus	Harare, Zimbabwe
25 Aug 2026	02 Sep 2026	On-Campus	Bangkok, Thailand
26 Aug 2026	03 Sep 2026	On-Campus	Victoria Falls, Zimbabwe

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 257136) 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.

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 · WhatsApp: +27 65 077 6310 · apply@aaticd.co.za · www.aaticd.co.za