



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

Demonstrate Understanding Of Human Performance And Limitations In Aviation Training

Law, Military Science and Security / Safety in Society

Unit Standard 120047 · NQF Level 5 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips aviation professionals with a comprehensive understanding of human performance and limitations to enhance safety and efficiency in aviation operations. Learners will explore physiological, psychological, and environmental factors affecting human performance, enabling them to identify and mitigate risks. The course aims to foster a safety culture by integrating human factors principles into daily aviation practices.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	120047
Accreditation	SAQA Accredited · NQF Level 5 · 5 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply knowledge of human physiological and psychological limitations to aviation operations.
- Analyze the impact of environmental factors such as noise, vibration, and temperature on human performance.
- Evaluate strategies to manage fatigue, stress, and workload in aviation contexts.
- Demonstrate techniques for effective communication and decision-making under pressure.
- Implement error management and risk mitigation strategies based on human factors principles.
- Assess the role of automation and technology in supporting or hindering human performance.

WHO SHOULD ATTEND

- This course is designed for pilots, air traffic controllers, aviation maintenance personnel, cabin crew, and aviation managers who require a foundational understanding of human performance and limitations to improve operational safety.

COURSE OUTLINE

Day 1: Foundations of Human Performance and Limitations

- Introduction to human factors in aviation
- The human body: sensory systems (vision, hearing, balance)
- Physiological limitations: hypoxia, fatigue, dehydration, G-forces
- Psychological factors: stress, workload, situational awareness
- Environmental factors: noise, vibration, temperature, lighting
- Information processing and memory limitations
- Basic human error models (e.g., SHELL, Swiss Cheese)
- Regulatory requirements and SAQA alignment

Day 2: Application and Management of Human Performance

- Advanced error management and threat recognition
- Crew Resource Management (CRM) principles and practice
- Fatigue risk management systems (FRMS)
- Stress management techniques for pilots
- Case studies: aviation incidents and human factors analysis
- Practical exercises: scenario-based decision-making
- Developing a personal human performance improvement plan
- Assessment and course wrap-up

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

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 16,200.00	R 16,200.00
1	In-House	R 21,000.00	R 21,000.00
1	On-Campus (Pretoria)	R 24,300.00	R 24,300.00

UPCOMING SESSIONS

Start	End	Method	Venue
11 Aug 2026	12 Aug 2026	On-Campus	Durban, South Africa
11 Aug 2026	12 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	12 Aug 2026	On-Campus	Cape Town, South Africa
13 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
13 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
13 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	18 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	18 Aug 2026	On-Campus	Abu Dhabi, UAE

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 120047) 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