



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

Transportation and Aircraft Support Servicing Fundamentals

Physical, Mathematical, Computer and Life Sciences / Physical Sciences

Unit Standard 261177 · NQF Level 3 · 15 Credits · 12 Days

COURSE OVERVIEW

This course equips learners with the fundamental knowledge and skills required to understand transportation and aircraft support servicing operations. It covers key principles, procedures, and safety considerations essential for effective support in aviation ground handling and logistics.

Category	Physical, Mathematical, Computer and Life Sciences
Subfield	Physical Sciences
Unit Standard	261177
Accreditation	SAQA Accredited · NQF Level 3 · 15 Credits
Duration	12 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate understanding of the principles and scope of transportation and aircraft support servicing.
- Apply knowledge of safety procedures and regulations relevant to aircraft ground support operations.
- Identify and describe the roles and responsibilities of personnel involved in transportation and aircraft support servicing.
- Explain the importance of effective communication and teamwork in aviation support environments.
- Analyze common challenges and solutions in transportation and aircraft support servicing.
- Implement basic procedures for handling equipment and materials in aircraft support operations.

WHO SHOULD ATTEND

- This course is designed for entry-level personnel in the aviation industry, including ground handlers, logistics staff, and support service technicians seeking foundational knowledge in transportation and aircraft support servicing.

COURSE OUTLINE

Day 1: Introduction to Transportation and Aircraft Support Servicing

- Overview of the aviation industry
- Introduction to aircraft types and structures
- Regulatory framework: SACAA, ICAO, SAQA
- Safety culture and human factors
- Career paths in aircraft support servicing
- Basic aviation terminology
- Introduction to documentation and record-keeping
- Environmental considerations in aviation

Day 2: Aircraft Ground Support Equipment (GSE)

- Types of GSE: tugs, tractors, belt loaders, GPU, air start units
- GSE operation principles
- Safety features and emergency procedures
- Pre-use inspection checklists
- Refueling and charging procedures
- GSE maintenance schedules
- Documentation for GSE usage
- Case study: GSE incident analysis

Day 3: Aircraft Marshalling and Parking Procedures

- Marshalling signals: standard and emergency
- Aircraft parking layouts and markings
- Chocking and grounding procedures
- Communication with pilots using headsets
- Safety zones and hazard awareness
- Night operations and low-visibility procedures
- Use of wands and light signals
- Practical drill: marshalling scenarios

Day 4: Aircraft Refueling and Fuel Handling

- Aviation fuel types: Jet A-1, Avgas
- Fuel storage and dispensing systems
- Refueling methods: over-wing, pressure
- Bonding and grounding to prevent static discharge
- Fuel sampling and testing for contamination
- Fire safety during refueling
- Spill containment and response
- Documentation: fuel receipt and quality records

Day 5: Aircraft Towing and Pushback Operations

- Towbar and towbarless towing systems
- Towing vehicle specifications
- Pushback procedures: with and without towbar
- Communication between tug driver and cockpit
- Weight limits and center of gravity constraints

- Safety during towing: personnel and equipment
- Emergency procedures: brake failure, disconnect
- Practical exercise: simulated pushback

Day 6: Aircraft Cleaning and Interior Servicing

- Exterior washing: pressure washing, hand washing
- Interior cleaning: carpets, seats, lavatories
- Approved chemicals and their applications
- Waste management: lavatory servicing, garbage disposal
- Cabin restocking: pillows, blankets, catering
- Inspection for damage during cleaning
- Record-keeping for cleaning tasks
- Health and safety precautions

Day 7: Aircraft De-icing and Anti-icing

- Ice formation and effects on aircraft performance
- Types of de-icing fluids: Type I, II, IV
- De-icing equipment: trucks, sprayers
- Application procedures: two-step process
- Holdover time tables and decision making
- Environmental considerations: fluid recovery
- Safety during de-icing operations
- Practical demonstration: de-icing application

Day 8: Ramp Safety and Foreign Object Debris (FOD) Control

- Ramp safety zones and markings
- FOD types: metal, debris, wildlife
- FOD prevention programs
- Ramp inspection procedures
- Reporting and documenting FOD incidents
- Emergency response: fire, fuel spill, injury
- Personal protective equipment (PPE)
- Case study: FOD damage analysis

Day 9: Cargo Handling and Loading Procedures

- Cargo types: general, hazardous, live animals
- Cargo handling equipment: pallet dollies, loaders
- Weight and balance calculations
- Load planning and distribution
- Securing cargo: nets, straps, containers
- Hazardous materials regulations (DGR)
- Documentation: air waybills, manifests
- Practical exercise: load simulation

Day 10: Aircraft Servicing Documentation and Quality Assurance

- Documentation types: logbooks, work orders, checklists
- Record-keeping standards and retention
- Quality management systems (ISO, AS9110)

- Audit processes and non-conformance reporting
- Corrective and preventive actions
- Safety management systems (SMS)
- Human factors in documentation errors
- Case study: documentation failure

Day 11: Emergency Procedures and Safety Management

- Types of emergencies: fire, medical, security
- Emergency response team roles
- Fire classes and extinguisher use
- Aircraft evacuation procedures
- Crowd control and passenger management
- Incident reporting and investigation
- Safety drills and simulations
- Practical exercise: emergency scenario

Day 12: Integration, Assessment, and Career Pathways

- Integrated practical scenario: full turnaround
- Review of key concepts and skills
- Written and practical assessments
- Feedback and improvement plans
- Career pathways in aircraft support
- Professional development resources
- Course evaluation
- Certification and next steps

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 **15 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 41,000.00	R 41,000.00
1	In-House	R 53,300.00	R 53,300.00
1	On-Campus (Pretoria)	R 61,500.00	R 61,500.00

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 261177) 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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