



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

Glasswork Handling for Aluminium Systems

Physical Planning and Construction / Building Construction

Unit Standard 230068 · NQF Level 2 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips learners with the skills to safely handle, cut, and install glass components within aluminium framing systems. It covers risk assessment, correct lifting techniques, and the use of personal protective equipment to prevent injuries in the workplace.

Category	Physical Planning and Construction
Subfield	Building Construction
Unit Standard	230068
Accreditation	SAQA Accredited · NQF Level 2 · 10 Credits
Duration	7 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate safe handling and lifting techniques for glass panels of various sizes and weights.
- Apply risk assessment procedures to identify hazards associated with glasswork in aluminium systems.
- Implement correct use of personal protective equipment (PPE) and safety tools during glass handling.
- Evaluate glass dimensions and fitments to ensure proper installation within aluminium frames.
- Perform basic cutting and edge-finishing of glass using appropriate hand and power tools.
- Comply with relevant health and safety regulations and industry standards for glass handling.

WHO SHOULD ATTEND

- This course is designed for installers, glaziers, and technicians who work with aluminium window, door, and curtain wall systems in the construction and fenestration industries.

COURSE OUTLINE

Day 1: Introduction to Glass and Aluminium Systems

- Overview of glass types: float, tempered, laminated, and insulated glass units (IGUs)
- Properties of glass: strength, thermal performance, and optical quality
- Introduction to aluminium systems: window frames, curtain walls, and doors
- Safety regulations and PPE for glass handling
- Common hazards: sharp edges, breakage, and ergonomic risks
- Quality standards in the glass and aluminium industry

Day 2: Glass Storage and Transportation

- Storage conditions: vertical vs horizontal storage, racking systems
- Lifting techniques: manual handling guidelines and team lifting
- Mechanical handling: suction cups, cranes, and vacuum lifters
- Transportation: securing glass in vehicles, protective packaging
- Inspection procedures: identifying chips, cracks, and edge damage
- Documentation: delivery notes and damage reporting

Day 3: Cutting and Processing Glass for Aluminium Frames

- Glass cutting tools: manual cutters, automated cutting tables
- Measuring and marking: allowances for frame tolerances
- Cutting techniques: scoring and snapping
- Safety during cutting: eye protection, dust control
- Edge work: grinding, beveling, and polishing
- Quality control: checking dimensions and edge quality

Day 4: Glazing Techniques for Aluminium Systems

- Glazing types: wet glazing with silicone, dry glazing with gaskets
- Sealant application: gun operation, tooling, and curing
- Setting blocks and location blocks: sizes and placement
- Frame preparation: cleaning and priming
- Glass insertion techniques: tilt-and-turn, fixed, and sliding
- Weatherproofing: drainage and venting in aluminium systems

Day 5: Installing Glass in Aluminium Windows and Doors

- Installation planning: site assessment and sequencing
- Hardware: hinges, handles, locks, and stays
- Fixing methods: screws, clips, and pressure plates
- Alignment: using levels and spacers
- Finishing: snap-on trims, covers, and capping
- Testing: opening, closing, and locking functionality

Day 6: Advanced Applications and Specialised Glass

- Laminated glass: handling, cutting, and edge sealing
- Tempered glass: handling and installation precautions
- Curtain wall systems: stick and unitized systems
- Structural glazing: silicone bonded systems
- Thermal break: aluminium profiles with polyamide strips

- Acoustic glazing: double and triple glazing for sound insulation
- Safety glazing: regulations for doors, low-level windows, and balustrades

Day 7: Quality Control, Maintenance, and Final Assessment

- Quality control: visual inspection, water testing, air infiltration tests
- Common defects: condensation, seal failure, scratches, and misalignment
- Rectification: adjusting, resealing, and replacing components
- Maintenance: cleaning, lubricating hardware, and replacing gaskets
- Documentation: handover checklists and warranty information
- Final assessment: practical and theoretical evaluation

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 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 28,200.00	R 28,200.00
1	In-House	R 36,700.00	R 36,700.00
1	On-Campus (Pretoria)	R 42,300.00	R 42,300.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	11 Aug 2026	On-Campus	Johannesburg, South Africa
04 Aug 2026	12 Aug 2026	On-Campus	Mauritius
05 Aug 2026	13 Aug 2026	On-Campus	Cape Town, South Africa
06 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
07 Aug 2026	17 Aug 2026	On-Campus	Pretoria, South Africa
07 Aug 2026	17 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	18 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	18 Aug 2026	On-Campus	Mauritius

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 230068) 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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