



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

Polymer Composite Demoulding Techniques And Procedures Training

Manufacturing, Engineering and Technology / Manufacturing and Assembly

Unit Standard 110285 · NQF Level 2 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills to safely and effectively demould polymer composite components. Participants will understand the principles of demoulding, prepare moulds correctly, and apply appropriate techniques to prevent damage and ensure product quality.

Category	Manufacturing, Engineering and Technology
Subfield	Manufacturing and Assembly
Unit Standard	110285
Accreditation	SAQA Accredited · NQF Level 2 · 5 Credits
Duration	2 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply correct demoulding procedures to release polymer composite components without damage.
- Analyze mould conditions and select appropriate release agents and techniques.
- Evaluate demoulding processes to identify and resolve common defects.
- Implement safety protocols during demoulding operations.
- Demonstrate proper handling and storage of demoulded components.
- Design a systematic demoulding checklist for quality assurance.

WHO SHOULD ATTEND

- This training is designed for production operators, technicians, and supervisors involved in the manufacturing of polymer composite products, particularly in the automotive, aerospace, and marine industries.

COURSE OUTLINE

Day 1: Fundamentals of Polymer Composite Demoulding

- Overview of polymer composites and demoulding processes
- Types of moulds (open, closed, matched) and mould materials
- Release agents: types, application methods, and selection criteria
- Demoulding equipment: wedges, pneumatic tools, hydraulic presses
- Safety protocols: PPE, ventilation, handling of chemicals
- Factors influencing demoulding: cure cycle, shrinkage, adhesion
- Defect identification: surface damage, warpage, contamination
- Quality control checks post-demoulding

Day 2: Advanced Techniques and Troubleshooting

- Advanced release agents: semi-permanent, water-based, and nano-coatings
- Techniques for demoulding undercuts, ribs, and cores
- Mechanical vs. thermal demoulding methods
- Troubleshooting: stuck parts, surface defects, release failures
- Process documentation and traceability
- Environmental considerations: waste management, solvent reduction
- Case studies: aerospace, automotive, marine applications
- Integration with production workflow and lean principles

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 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 15,400.00	R 15,400.00
1	In-House	R 20,000.00	R 20,000.00
1	On-Campus (Pretoria)	R 23,100.00	R 23,100.00

UPCOMING SESSIONS

Start	End	Method	Venue
04 Aug 2026	05 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	05 Aug 2026	On-Campus	Mauritius
04 Aug 2026	05 Aug 2026	On-Campus	Lagos, Nigeria
06 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
06 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
06 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
10 Aug 2026	11 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	11 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 110285) 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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