



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

Diamond Impurity Removal Using Pressure Boiling Techniques Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110203 · NQF Level 2 · 5 Credits · 2 Days

COURSE OVERVIEW

This course equips learners with the theoretical and practical skills to safely and effectively remove impurities from diamonds using pressure boiling techniques. It covers the principles of pressure boiling, safety protocols, and quality control measures to ensure diamond purity meets industry standards.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110203
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

- Demonstrate the correct setup and operation of pressure boiling equipment for diamond impurity removal.
- Apply safety procedures and hazard identification techniques specific to pressure boiling processes.
- Analyze impurity types and select appropriate boiling parameters to optimize removal efficiency.
- Evaluate the quality of treated diamonds using visual inspection and basic testing methods.
- Implement record-keeping and reporting procedures for process monitoring and quality assurance.

WHO SHOULD ATTEND

- This training is designed for diamond processing technicians, quality control personnel, and plant operators involved in diamond recovery and purification in the mining and beneficiation sector.

COURSE OUTLINE

Day 1: Principles of Diamond Impurity Removal

- Overview of diamond impurities and their sources
- Chemistry of pressure boiling: oxidation and dissolution
- Equipment design: autoclaves, heaters, pressure controls
- Pre-treatment: diamond sorting and cleaning
- Step-by-step pressure boiling process
- Safety: pressure vessel handling, PPE, emergency procedures
- Quality checks: acid neutralization and rinsing
- Waste management: acid disposal and environmental compliance

Day 2: Practical Application and Troubleshooting

- Hands-on equipment setup and pre-operation checks
- Loading diamonds and preparing acid mixtures
- Running a pressure boiling cycle: monitoring and logging
- Post-treatment handling: neutralization, rinsing, drying
- Inspection: visual and microscopic impurity assessment
- Yield calculation and process optimization
- Troubleshooting: pressure drops, temperature deviations, residue
- Documentation: batch records, incident reports, maintenance logs

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	Pretoria, South Africa
04 Aug 2026	05 Aug 2026	On-Campus	Cape Town, South Africa
04 Aug 2026	05 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
06 Aug 2026	07 Aug 2026	On-Campus	Mauritius
06 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	11 Aug 2026	On-Campus	Mauritius
10 Aug 2026	11 Aug 2026	On-Campus	Dubai, 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 110203) 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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