



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 Cleaving Techniques For Gemstone Processing Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110222 · NQF Level 5 · 6 Credits · 3 Days

COURSE OVERVIEW

This course equips learners with the fundamental techniques of diamond cleaving for gemstone processing. Participants will gain the knowledge and practical skills required to cleave diamonds along their natural grain lines, ensuring optimal yield and value retention. The training aligns with industry standards and prepares learners for roles in gemstone processing facilities.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110222
Accreditation	SAQA Accredited · NQF Level 5 · 6 Credits
Duration	3 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply diamond cleaving techniques to split rough diamonds along predetermined cleavage planes.
- Demonstrate the correct use of cleaving tools and equipment, including the cleaving hammer and blade.
- Analyse diamond crystal structures to identify optimal cleavage directions.
- Evaluate the quality of cleaved surfaces and make adjustments to technique as needed.
- Implement safety protocols to minimize risk during cleaving operations.
- Design a cleaving plan for a rough diamond based on its inclusions and grain lines.

WHO SHOULD ATTEND

- This course is designed for individuals working in or entering the gemstone processing industry, including diamond cutters, polishers, and gemstone processing technicians.
- It is also suitable for jewellery manufacturers and artisans seeking to enhance their diamond handling and cleaving skills.

COURSE OUTLINE

Day 1: Introduction to Diamond Cleaving and Safety

- Overview of diamond crystallography and cleavage planes
- Safety in the cleaving workshop: PPE, ventilation, and emergency procedures
- Introduction to cleaving tools: hammer, blade, dop sticks, and microscope
- The cleaving process: marking, notching, and striking
- Factors affecting cleaving success: grain direction, inclusions, and stress
- Quality control: evaluating cleaved surfaces
- Documentation and record-keeping
- Tour of the practical workshop

Day 2: Cleaving Techniques and Practical Application

- Advanced notching methods: laser notching vs. manual notching
- Striking techniques: angle, force, and follow-through
- Practical cleaving exercises on synthetic diamonds
- Troubleshooting: step fractures, feathering, and misalignment
- Integration with sawing and bruting
- Quality assessment of cleaved diamonds
- Workshop safety review and best practices
- Preparing for assessment

Day 3: Advanced Cleaving and Final Assessment

- Advanced grain analysis and cleavage plane selection
- Cleaving of irregular and macle diamonds
- Post-cleaving evaluation: weight retention and surface quality
- Record-keeping and reporting for quality assurance
- Final practical assessment: cleave a provided diamond
- Review of course outcomes and feedback
- Certification requirements and next steps
- Course evaluation and close

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

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 18,800.00	R 18,800.00
1	In-House	R 24,500.00	R 24,500.00
1	On-Campus (Pretoria)	R 28,100.00	R 28,100.00

UPCOMING SESSIONS

Start	End	Method	Venue
03 Aug 2026	05 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	05 Aug 2026	On-Campus	Mauritius
04 Aug 2026	06 Aug 2026	On-Campus	Cape Town, South Africa
04 Aug 2026	06 Aug 2026	On-Campus	Lagos, Nigeria
05 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
05 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
10 Aug 2026	12 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	12 Aug 2026	On-Campus	Cape Town, 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 110222) 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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