



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

Microscope Examination Techniques For Diamond Gemstones Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110199 · NQF Level 2 · 1 Credits · 1 Day

COURSE OVERVIEW

This course equips participants with the skills to effectively use microscopes for examining diamond gemstones, enabling them to identify inclusions, assess clarity, and verify authenticity. It focuses on practical techniques for accurate grading and quality control in gemological settings.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110199
Accreditation	SAQA Accredited · NQF Level 2 · 1 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate proper setup and calibration of a gemological microscope for diamond examination.
- Apply systematic scanning techniques to identify and locate inclusions and surface features in diamonds.
- Analyze inclusion characteristics (type, size, color, relief) to determine clarity grade based on GIA or similar standards.
- Evaluate diamond clarity using standard grading terminology and document findings accurately.
- Implement safety and maintenance procedures for microscope equipment to ensure longevity and accurate results.
- Distinguish natural diamonds from synthetic or treated stones using microscopic features.

WHO SHOULD ATTEND

- This course is designed for gemologists, diamond graders, jewellery appraisers, and quality control professionals seeking to enhance their proficiency in microscope examination techniques for diamond gemstones.

COURSE OUTLINE

Day 1: Introduction to Microscope Examination Techniques for Diamond Gemstones

- Overview of diamond gemstone examination and the role of microscopy
- Types of gemological microscopes and their components
- Proper microscope setup: lighting, magnification, and focus
- Techniques for identifying inclusions, blemishes, and clarity characteristics
- Documentation and reporting of microscopic observations
- Safety and maintenance procedures for microscope equipment

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 **1 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 12,800.00	R 12,800.00
1	In-House	R 16,600.00	R 16,600.00
1	On-Campus (Pretoria)	R 19,200.00	R 19,200.00

UPCOMING SESSIONS

Start	End	Method	Venue
31 Jul 2026	31 Jul 2026	On-Campus	Mauritius
03 Aug 2026	03 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	04 Aug 2026	On-Campus	Pretoria, South Africa
04 Aug 2026	04 Aug 2026	On-Campus	Lagos, Nigeria
05 Aug 2026	05 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	06 Aug 2026	On-Campus	Mauritius
07 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	10 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 110199) 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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