



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

Borehole Core Logging For Massive Sulphide Geology Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 115726 · NQF Level 5 · 7 Credits · 4 Days

COURSE OVERVIEW

This course equips geologists and mining technicians with the practical skills to accurately log borehole core in massive sulphide deposits. Participants will learn to identify key mineralogical and textural features, apply standardised logging protocols, and interpret geological structures critical for resource estimation.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	115726
Accreditation	SAQA Accredited · NQF Level 5 · 7 Credits
Duration	4 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply systematic core logging procedures to massive sulphide intersections, recording lithology, mineralogy, alteration, and structure.
- Analyse textural and structural features in core to interpret depositional and deformational history.
- Evaluate sulphide mineral assemblages and their spatial distribution for grade control and resource modelling.
- Demonstrate competence in using logging software and standardised data capture sheets.
- Implement quality control checks to ensure logging data integrity and reproducibility.

WHO SHOULD ATTEND

- This training is designed for exploration and mine geologists, geological technicians, and core loggers who work with massive sulphide mineralisation in South African or international mining contexts.

COURSE OUTLINE

Day 1: Introduction to Massive Sulphide Geology and Core Logging Fundamentals

- Overview of massive sulphide deposits (VMS, SEDEX, etc.).
- Mineralogy and textures: pyrite, chalcopyrite, sphalerite, galena.
- Core logging equipment: tools, safety, and core layout.
- Descriptive logging: lithology, colour, grain size, alteration.
- Introduction to logging sheets and digital data capture.
- Quality control and assurance basics.

Day 2: Advanced Core Description and Structural Logging

- Alteration types: chloritic, sericitic, silicic, carbonatisation.
- Structural logging: orientation, dip, strike, and kinematic indicators.
- Vein types and paragenesis.
- Core recovery measurement and RQD calculation.
- Sulphide texture classification: massive, semi-massive, stringer, disseminated.
- Practical exercise: logging a mineralised core interval.

Day 3: Geochemical Sampling and Data Integration

- Sampling methods: half-core, quarter-core, chip sampling.
- Sample preparation and chain of custody.
- Introduction to assay methods: ICP, AAS, fire assay.
- Correlating visual logs with assay results.
- Geological modelling basics: cross-sections and 3D interpretation.
- QA/QC: blanks, standards, duplicates, and control charts.
- Practical: integrating log data with geochemical results.

Day 4: Practical Application, Reporting, and Assessment

- Review of key learning points.
- Practical exercise: complete a full core log from a provided core tray.
- Data entry and validation using logging software.
- Report writing: structure, geological interpretation, recommendations.
- Assessment: individual practical log and written test.
- Feedback and certification guidance.

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 **7 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 21,500.00	R 21,500.00
1	In-House	R 27,900.00	R 27,900.00
1	On-Campus (Pretoria)	R 32,300.00	R 32,300.00

UPCOMING SESSIONS

Start	End	Method	Venue
04 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
04 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
04 Aug 2026	07 Aug 2026	On-Campus	Mauritius
04 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
04 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	13 Aug 2026	On-Campus	Mauritius
10 Aug 2026	13 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 115726) 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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