



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

Vertical Converter Sampling With Dip Bar Techniques Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110137 · NQF Level 2 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the theoretical knowledge and practical skills required to safely and effectively perform vertical converter sampling using dip bar techniques in a metallurgical or industrial environment. It covers the principles of sampling, equipment handling, and adherence to health and safety protocols to ensure accurate sample collection and minimize risk.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110137
Accreditation	SAQA Accredited · NQF Level 2 · 3 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the correct use of dip bar sampling equipment for vertical converter sampling.
- Apply safe work practices and health and safety procedures during sampling operations.
- Analyze sampling results to verify representativeness and quality of samples.
- Evaluate potential hazards associated with dip bar sampling and implement control measures.
- Maintain and inspect dip bar equipment to ensure operational readiness.
- Communicate sampling data and observations accurately in accordance with standard procedures.

WHO SHOULD ATTEND

- This course is intended for process operators, metallurgical technicians, and quality control personnel who are responsible for sampling molten metal in converter operations at smelters or refineries.

COURSE OUTLINE

Day 1: Vertical Converter Sampling with Dip Bar Techniques

- Introduction to vertical converter sampling and its importance in metallurgical accounting.
- Principles of dip bar sampling: representative sampling, bath depth, and immersion angles.
- Equipment overview: dip bars, sample moulds, protective clothing, and safety gear.
- Step-by-step dip bar sampling procedure: preparation, immersion, retrieval, and sample extraction.
- Safety protocols: hazard identification, emergency procedures, and PPE requirements.
- Sample handling, labelling, storage, and transport to the laboratory.
- Quality assurance: duplicate sampling, contamination prevention, and documentation.
- Regulatory compliance: relevant SAQA unit standards and industry best practices.

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 **3 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
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
11 Aug 2026	11 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	12 Aug 2026	On-Campus	Mauritius

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 110137) 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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