



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

Sodium Hydrosulphide Solution Preparation Metallurgical Plant Operations Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110147 · NQF Level 2 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and skills to safely and efficiently prepare sodium hydrosulphide solutions for use in metallurgical plant operations. It covers the chemical properties, handling procedures, and quality control measures required for solution preparation, ensuring compliance with occupational health and safety standards.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110147
Accreditation	SAQA Accredited · NQF Level 2 · 4 Credits
Duration	1 day
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate understanding of the chemical properties and hazards of sodium hydrosulphide.
- Apply safe handling, storage, and disposal procedures for sodium hydrosulphide.
- Prepare sodium hydrosulphide solutions of specified concentrations using correct equipment and techniques.
- Monitor and adjust solution parameters to meet quality specifications.
- Implement emergency response procedures in the event of spills or exposure.
- Evaluate solution preparation processes for compliance with health, safety, and environmental regulations.

WHO SHOULD ATTEND

- This course is designed for metallurgical plant operators, process technicians, and laboratory personnel involved in the preparation and handling of sodium hydrosulphide solutions.

COURSE OUTLINE

Day 1: Sodium Hydrosulphide Solution Preparation Fundamentals

- Properties and uses of sodium hydrosulphide in metallurgy
- Health, safety, and environmental risks (H₂S, caustic, flammability)
- PPE requirements and emergency procedures
- Raw materials: NaHS flakes, water quality, and additives
- Step-by-step solution preparation process
- Concentration calculation and adjustment
- Sampling and quality control (pH, density, titration)
- Storage and handling of prepared solution

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 **4 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
03 Aug 2026	03 Aug 2026	On-Campus	Johannesburg, South Africa
04 Aug 2026	04 Aug 2026	On-Campus	Mauritius
05 Aug 2026	05 Aug 2026	On-Campus	Cape Town, South Africa
06 Aug 2026	06 Aug 2026	On-Campus	Dubai, UAE
07 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
07 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	10 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	10 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 110147) 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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