



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 Formate Solution Preparation Metallurgical Plant Operations Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110170 · NQF Level 2 · 4 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the knowledge and skills required to safely and accurately prepare sodium formate solutions for metallurgical plant operations. It covers the chemical properties, handling procedures, and quality control measures essential for effective solution preparation, ensuring compliance with industry standards and safety regulations.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110170
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

- Apply correct safety procedures when handling sodium formate and associated chemicals.
- Demonstrate the step-by-step process of preparing sodium formate solutions to specified concentrations.
- Analyze solution quality using appropriate testing methods and adjust parameters as needed.
- Evaluate potential hazards in the solution preparation area and implement control measures.
- Record and report solution preparation data in compliance with plant documentation standards.
- Implement waste disposal procedures for sodium formate solutions according to environmental regulations.

WHO SHOULD ATTEND

- Process operators, metallurgical technicians, and plant personnel responsible for preparing chemical solutions in metallurgical operations.

COURSE OUTLINE

Day 1: Fundamentals of Sodium Formate Solution Preparation

- Introduction to sodium formate: properties, uses in metallurgy, and safety data sheet (SDS) review.
- Hazard identification and risk assessment for handling sodium formate.
- PPE requirements: gloves, goggles, apron, and respiratory protection.
- Calculation of mass for desired concentration (mass/volume percent and molarity).
- Equipment overview: balance, volumetric flask, beaker, stirring rod, and measuring cylinder.
- Step-by-step preparation procedure: weighing, dissolving, and diluting.
- Quality control: measuring specific gravity and adjusting concentration.
- Waste disposal and spill cleanup procedures.

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	Cape Town, South Africa
04 Aug 2026	04 Aug 2026	On-Campus	Dubai, UAE
05 Aug 2026	05 Aug 2026	On-Campus	Pretoria, South Africa
05 Aug 2026	05 Aug 2026	On-Campus	Lagos, Nigeria
06 Aug 2026	06 Aug 2026	On-Campus	Johannesburg, South Africa
07 Aug 2026	07 Aug 2026	On-Campus	Mauritius
10 Aug 2026	10 Aug 2026	On-Campus	Dubai, UAE
11 Aug 2026	11 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 110170) 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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