



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

Crystallising Salts From Solution Laboratory Techniques Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110446 · NQF Level 2 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips laboratory technicians with the practical skills and theoretical knowledge required to safely and effectively crystallise salts from solution. Participants will learn controlled crystallisation techniques, purity assessment, and proper laboratory documentation, ensuring compliance with South African quality and safety standards.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110446
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 safe handling of chemicals and equipment during crystallisation processes.
- Apply controlled cooling, evaporation, and seeding techniques to produce salt crystals.
- Evaluate crystal purity using visual inspection and simple analytical tests.
- Document experimental procedures and results in accordance with laboratory standards.
- Implement waste disposal and spill management protocols for crystallisation by-products.

WHO SHOULD ATTEND

- Laboratory technicians, chemists, and quality control personnel working in chemical, pharmaceutical, or analytical laboratories who need to perform crystallisation procedures as part of their daily operations.

COURSE OUTLINE

Day 1: Crystallising Salts From Solution

- Introduction to crystallisation: solubility, saturation, and supersaturation
- Factors affecting crystal formation: temperature, concentration, seeding
- Safety in the laboratory: handling chemicals and equipment
- Step-by-step procedure for crystallising a salt (e.g., copper(II) sulfate)
- Techniques for filtration, washing, and drying crystals
- Evaluating crystal size, shape, and purity
- Recording observations and calculating percentage yield

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
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
12 Aug 2026	12 Aug 2026	On-Campus	Abu Dhabi, UAE
13 Aug 2026	13 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 110446) 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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