



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

Juice Liming And Flocculant Addition Process Control Training

Agriculture and Nature Conservation / Secondary Agriculture

Unit Standard 114322 · NQF Level 2 · 4 Credits · 1 Day

COURSE OVERVIEW

This course provides learners with the knowledge and practical skills to control juice liming and flocculant addition processes in a sugar mill or similar industrial setting. It covers the principles of juice clarification, process control parameters, and troubleshooting to ensure optimal sugar recovery and quality. Successful learners will be able to monitor and adjust process variables to meet production targets.

Category	Agriculture and Nature Conservation
Subfield	Secondary Agriculture
Unit Standard	114322
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 the ability to monitor and control juice liming and flocculant addition processes according to standard operating procedures.
- Analyze process data to identify deviations and implement corrective actions to maintain optimal clarification.
- Evaluate the impact of liming and flocculant dosage on juice purity and sugar recovery.
- Apply safety and quality standards during process control operations.
- Troubleshoot common process problems and recommend improvements.

WHO SHOULD ATTEND

- Process controllers, shift supervisors, and production operators in the sugar industry or related sectors who are responsible for juice clarification and flocculant dosing.

COURSE OUTLINE

Day 1: Juice Liming And Flocculant Addition Process Control

- Overview of juice clarification in sugar milling.
- Chemistry of liming: pH adjustment and calcium phosphate formation.
- Flocculant types, preparation, and dosing mechanisms.
- Process control loops: set points, feedback, and feedforward control.
- Instrumentation: pH meters, flow meters, density gauges.
- Standard operating procedures for lime slurry and flocculant addition.
- Troubleshooting: scaling, under/over liming, flocculant overdosing.
- Safety and environmental considerations in chemical handling.

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
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	Durban, South Africa
12 Aug 2026	12 Aug 2026	On-Campus	Mauritius
13 Aug 2026	13 Aug 2026	On-Campus	Cape Town, South Africa
14 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	17 Aug 2026	On-Campus	Abu Dhabi, UAE
18 Aug 2026	18 Aug 2026	On-Campus	Durban, 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 114322) 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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