



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

Grate Cooler Repair and Maintenance

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 253354 · NQF Level 2 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the skills to repair and maintain grate coolers used in industrial cement and mineral processing. It covers fault diagnosis, mechanical repairs, and preventive maintenance procedures to ensure optimal cooler performance and longevity.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	253354
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 knowledge of grate cooler components, operation, and common failure modes.
- Apply systematic fault-finding techniques to diagnose mechanical and thermal issues in grate coolers.
- Implement safe isolation and lockout/tagout procedures before commencing repair work.
- Perform repair and replacement of grate plates, drive mechanisms, and sealing systems.
- Evaluate cooler performance after repairs and adjust settings to meet operational parameters.
- Design a preventive maintenance schedule based on wear patterns and manufacturer recommendations.

WHO SHOULD ATTEND

- This course is intended for maintenance technicians, millwrights, and mechanical engineers working in cement plants or mineral processing industries who are responsible for grate cooler upkeep.

COURSE OUTLINE

Day 1: Grate Cooler Repair and Maintenance Fundamentals

- Overview of grate cooler operation and its role in clinker cooling
- Key components: grate plates, drive assembly, air distribution system
- Common faults: mechanical wear, thermal distortion, air leaks
- Safety procedures: LOTO, confined space entry, hot work permits
- Inspection techniques: visual checks, dimensional measurements, thermography
- Lubrication and preventive maintenance schedules
- Repair methods: replacement of worn grate plates, drive chain adjustment
- Documentation and reporting of maintenance activities

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	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
11 Aug 2026	11 Aug 2026	On-Campus	Cape Town, South Africa
12 Aug 2026	12 Aug 2026	On-Campus	Dubai, UAE

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 253354) 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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