



Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza · 1122 Burnett St, Hatfield 0028 · Pretoria, Gauteng · South Africa

Tel: +27 12 004 8389 · Mobile: +27 65 077 6310

Email: apply@aaticd.co.za · Website: www.aaticd.co.za

COURSE BROCHURE

Steel Ball Load Maintenance With Suspended Magnetic Loading Systems Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110171 · NQF Level 2 · 3 Credits · 1 Day

COURSE OVERVIEW

This course equips learners with the skills and knowledge to safely maintain steel ball loads in suspended magnetic loading systems. It covers inspection, adjustment, and replacement procedures to ensure operational efficiency and compliance with safety standards.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110171
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

- Apply safety procedures when working with suspended magnetic loading systems.
- Inspect steel ball loads and magnetic components for wear or damage.
- Adjust magnetic field strength and ball load distribution to optimize performance.
- Replace worn steel balls and magnetic elements following manufacturer specifications.
- Demonstrate proper lock-out/tag-out procedures during maintenance activities.
- Evaluate system performance after maintenance to ensure operational readiness.

WHO SHOULD ATTEND

- This course is designed for maintenance technicians, millwrights, and plant operators responsible for the upkeep of magnetic loading systems in mining or mineral processing environments.

COURSE OUTLINE

Day 1: Fundamentals and Practical Maintenance of Steel Ball Load with Suspended Magnetic Loading Systems

- Overview of steel ball load and suspended magnetic loading systems
- Components: magnets, suspension cables, ball load chamber, control systems
- Safety protocols: lockout/tagout, working at heights, magnetic field hazards
- Routine inspection: visual checks, wear measurement, alignment verification
- Lubrication and cleaning procedures
- Fault diagnosis: uneven loading, magnet degradation, cable wear
- Corrective maintenance: replacing components, adjusting tension
- Documentation: maintenance logs, defect reporting

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
04 Aug 2026	04 Aug 2026	On-Campus	Cape Town, South Africa
05 Aug 2026	05 Aug 2026	On-Campus	Dubai, UAE
06 Aug 2026	06 Aug 2026	On-Campus	Pretoria, South Africa
06 Aug 2026	06 Aug 2026	On-Campus	Lagos, Nigeria
07 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
10 Aug 2026	10 Aug 2026	On-Campus	Cape Town, South Africa
11 Aug 2026	11 Aug 2026	On-Campus	Dubai, UAE
12 Aug 2026	12 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 110171) 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.

Accredited Africa Training Institute for Capacity Development

Unit FO409, Hatfield Plaza, 1122 Burnett St, Hatfield 0028, Pretoria, Gauteng, South Africa
Tel: +27 12 004 8389 · WhatsApp: +27 65 077 6310 · apply@aaticd.co.za · www.aaticd.co.za