



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

Hydraulic Mill Relining Machine Operation And Maintenance Training

Manufacturing, Engineering and Technology / Fabrication and Extraction

Unit Standard 110445 · NQF Level 3 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to safely and efficiently operate and maintain hydraulic mill relining machines used in mineral processing. It covers pre-start checks, operational procedures, routine maintenance, and troubleshooting. Successful completion ensures compliance with industry safety standards and enhances equipment reliability.

Category	Manufacturing, Engineering and Technology
Subfield	Fabrication and Extraction
Unit Standard	110445
Accreditation	SAQA Accredited · NQF Level 3 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the ability to conduct pre-start inspections and identify potential hazards on hydraulic mill relining machines.
- Apply correct operational procedures to safely and efficiently perform mill relining tasks.
- Implement routine maintenance schedules and perform basic troubleshooting on hydraulic systems.
- Evaluate machine performance and diagnose common faults using manufacturer specifications.
- Analyze safety risks associated with mill relining and apply appropriate control measures.
- Demonstrate compliance with relevant health, safety, and environmental regulations during operations.

WHO SHOULD ATTEND

- Mill operators, maintenance technicians, and supervisors responsible for relining operations in mining and mineral processing plants.
- The course is also suitable for engineering trainees and safety officers seeking specialized knowledge.

COURSE OUTLINE

Day 1: Introduction to Hydraulic Mill Relining Machines and Safety

- Overview of mill relining processes and equipment
- Major components: hydraulic power unit, manipulator arm, gripper, and controls
- Safety legislation (MHSA, OHS Act) and site-specific safety rules
- Hazard identification: pinch points, high pressure, heavy loads
- PPE requirements and emergency stop procedures
- Basic hydraulic principles: pressure, flow, and force

Day 2: Hydraulic Systems and Pre-Operational Checks

- Hydraulic pumps, valves, cylinders, and filters
- Hydraulic fluid types, contamination control, and sampling
- Pre-start checks: fluid levels, leaks, hose condition, and pressure settings
- Reading hydraulic schematics and understanding symbols
- Troubleshooting common issues: overheating, cavitation, and pressure drops
- Logbook and documentation requirements

Day 3: Machine Operation and Control

- Control panel functions: joysticks, switches, and indicators
- Safe startup sequence and warm-up procedures
- Manipulator arm movements: lift, rotate, extend, and tilt
- Gripper operation and liner handling
- Communication signals and teamwork protocols
- Load capacity charts and safe working loads
- Emergency shutdown and fault recovery

Day 4: Maintenance and Routine Servicing

- Daily, weekly, and monthly maintenance schedules
- Lubrication points and grease types
- Filter replacement and contamination control
- Hose and seal inspection and replacement criteria
- Hydraulic fluid sampling procedures
- Wear component assessment: gripper pads, bushings, and pins
- Maintenance logbooks and reporting

Day 5: Troubleshooting, Fault Finding, and Practical Integration

- Systematic fault-finding approach
- Pressure testing and flow measurement
- Electrical controls and sensor troubleshooting
- Case studies: common failures and solutions
- Simulated relining operation with fault scenarios
- Final assessment and feedback

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 **8 NQF credits** at **NQF Level 3**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 23,000.00	R 23,000.00
1	In-House	R 29,900.00	R 29,900.00
1	On-Campus (Pretoria)	R 34,500.00	R 34,500.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	14 Aug 2026	On-Campus	Durban, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Abu Dhabi, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Pretoria, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Dubai, UAE
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
17 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
17 Aug 2026	21 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 110445) 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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