



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

Marble Terrazzo Concrete Stone Floor Grinding Polishing Diamond Discs Training

Services / Cleaning, Domestic, Hiring, Property and Rescue Services

Unit Standard 110457 · NQF Level 4 · 8 Credits · 5 Days

COURSE OVERVIEW

This course equips learners with the knowledge and practical skills required to grind, polish, and restore marble, terrazzo, concrete, and stone floors using diamond discs. Participants will understand the selection, application, and maintenance of diamond tooling to achieve high-quality finishes in commercial and residential settings.

Category	Services
Subfield	Cleaning, Domestic, Hiring, Property and Rescue Services
Unit Standard	110457
Accreditation	SAQA Accredited · NQF Level 4 · 8 Credits
Duration	5 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Demonstrate the correct selection and mounting of diamond discs for different stone types and conditions.
- Apply safe working practices and use personal protective equipment during grinding and polishing operations.
- Operate floor grinding and polishing machinery effectively to achieve specified finish levels.
- Evaluate floor surface conditions and determine the appropriate sequence of diamond grits.
- Implement quality control checks to ensure the final finish meets industry standards.
- Analyze common defects such as scratches or uneven gloss and apply corrective techniques.

WHO SHOULD ATTEND

- This course is designed for floor technicians, construction workers, maintenance staff, and individuals seeking to enter the floor grinding and polishing industry.

COURSE OUTLINE

Day 1: Introduction to Marble, Terrazzo, and Concrete Stone Floor Grinding and Polishing

- Overview of marble, terrazzo, and concrete stone flooring
- Introduction to diamond discs: bond types, grit sizes, and shapes
- Machine types: handheld grinders, floor grinders, and polishers
- Safety protocols: PPE, electrical safety, dust control
- Equipment setup: adjusting speed, pressure, and water flow
- Basic terminology and industry standards

Day 2: Grinding Techniques and Diamond Disc Selection

- Assessing floor condition: cracks, stains, lippage
- Diamond disc selection: bond hardness, grit progression
- Coarse grinding techniques for heavy material removal
- Medium grinding for surface refinement
- Dust and slurry management systems
- Practical demonstration of grinding on sample slabs

Day 3: Polishing Processes and Achieving Desired Finish

- Polishing sequence: from 200 grit to 3000+ grit
- Wet vs dry polishing: pros and cons
- Use of polishing pads and compounds
- Achieving specific finishes: honed, polished, burnished
- Quality control: gloss meter readings and visual inspection
- Problem-solving: burnishing, etching, and uneven sheen

Day 4: Advanced Applications and Specialized Techniques

- Terrazzo grinding: exposing aggregates evenly
- Concrete polishing: achieving exposed aggregate or cream finish
- Edge and corner techniques using handheld tools
- Densifiers and hardeners: application and benefits
- Sealing options: topical vs penetrating sealers
- Color enhancement and stain removal methods

Day 5: Project Planning, Maintenance, and Certification

- Project planning: timeline, materials, cost estimation
- Final finishing: polishing to specification
- Quality assurance: testing for flatness, gloss, and uniformity
- Maintenance: routine cleaning, burnishing, and re-coating
- Equipment care: disc storage, machine maintenance
- Certification requirements and assessment preparation

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 4**.

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
03 Aug 2026	07 Aug 2026	On-Campus	Pretoria, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Dubai, UAE
03 Aug 2026	07 Aug 2026	On-Campus	Cape Town, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Mauritius
03 Aug 2026	07 Aug 2026	On-Campus	Johannesburg, South Africa
03 Aug 2026	07 Aug 2026	On-Campus	Lagos, Nigeria
10 Aug 2026	14 Aug 2026	On-Campus	Mauritius
10 Aug 2026	14 Aug 2026	On-Campus	Cape Town, 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 110457) 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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