



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

Prepare Prime And Paint New And Previously Coated Surfaces Training

Physical Planning and Construction / Building Construction

Unit Standard 119072 · NQF Level 2 · 18 Credits · 15 Days

COURSE OVERVIEW

This course equips learners with the skills to prepare, prime, and paint new and previously coated surfaces in compliance with industry standards. It covers surface assessment, material selection, and application techniques to ensure durable, professional finishes. The training emphasizes safety procedures and environmental best practices relevant to the South African context.

Category	Physical Planning and Construction
Subfield	Building Construction
Unit Standard	119072
Accreditation	SAQA Accredited · NQF Level 2 · 18 Credits
Duration	15 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply safety procedures and use personal protective equipment when preparing and painting surfaces.
- Analyze surface conditions to determine the correct preparation methods for new and previously coated surfaces.
- Select and mix primers and paints according to manufacturer specifications and surface requirements.
- Demonstrate correct application techniques for primers and paints using brushes, rollers, and spray equipment.
- Evaluate the quality of the finished paint job and identify defects for rectification.
- Implement waste disposal and environmental practices as per relevant regulations.

WHO SHOULD ATTEND

- This course is designed for painters, decorators, and construction workers who need to apply paint to new or previously coated surfaces.
- It is also suitable for maintenance staff and apprentices seeking formal recognition of their painting skills.

COURSE OUTLINE

Day 1: Introduction to Surface Preparation and Paint Principles

- Overview of unit standard 119072 and course structure
- Types of surfaces: new wood, metal, plaster, previously coated
- Principles of adhesion: mechanical and chemical bonding
- Introduction to coating systems: primers, undercoats, topcoats
- Health and safety legislation: OHSA, PPE, ventilation
- Environmental considerations: waste disposal, VOC awareness

Day 2: Substrate Assessment and Defect Identification

- Substrate assessment techniques: moisture, adhesion, soundness
- Common defects: blisters, peeling, chalking, rust, cracks
- Defect causes and implications for coating performance
- Tools for assessment: moisture meter, adhesion tester
- Manufacturer's data sheets: reading and application
- Practical exercise: assess and record defects on sample panels

Day 3: Surface Preparation Tools and Equipment

- Hand tools: scrapers, wire brushes, sanding blocks
- Power tools: orbital sanders, angle grinders, pressure washers
- Abrasives: sandpaper grades, steel wool, abrasive pads
- Safety guards and dust extraction systems
- Tool maintenance: cleaning, storage, replacement intervals
- Practical demonstration: set up and use a random orbital sander

Day 4: Cleaning and Degreasing Surfaces

- Types of contaminants: oil, grease, dust, mildew, efflorescence
- Cleaning agents: detergents, solvents, trisodium phosphate
- Pressure washing techniques: pressure settings, nozzle angles
- Chemical stripping: application, dwell time, removal
- Neutralisation and rinsing: importance of residue-free surface
- Waste management: containment, disposal, SDS interpretation

Day 5: Repairing Surface Imperfections

- Types of fillers: wood filler, spackling, epoxy, auto body filler
- Mixing ratios and application methods for each filler type
- Techniques: filling, smoothing, feathering edges
- Drying times and sanding intervals
- Sealants for gaps around windows, doors, and trim
- Practical exercise: repair defects on wood and plaster boards

Day 6: Sanding Techniques and Dust Control

- Abrasive grits: coarse, medium, fine, very fine
- Sanding sequence: progressive grits to avoid swirl marks
- Hand sanding blocks and contours
- Machine sanding: orbital, belt, detail sanders
- Dust control: vacuum attachments, wet sanding, tack cloths

- Practical exercise: sand a previously coated surface to a smooth finish

Day 7: Primer Selection and Application

- Primer functions: adhesion, stain blocking, corrosion resistance
- Water-based vs solvent-based primers
- Special primers: for metal, glossy surfaces, new drywall
- Application techniques: cutting in, rolling, spray patterns
- Drying times and recoat windows
- Practical exercise: prime a mixed substrate panel

Day 8: Paint Types, Characteristics, and Selection

- Paint chemistry: binders, pigments, solvents, additives
- Paint finishes: flat, eggshell, satin, semi-gloss, gloss
- Interior vs exterior paint: UV resistance, flexibility
- Coverage rates and spread calculations
- Colour matching and tinting: bases, colourants
- Practical exercise: read a paint label and calculate needed volume

Day 9: Application Tools and Techniques – Brushes and Rollers

- Brush types: natural bristle vs synthetic, angled vs square
- Brush techniques: cutting in, brushing out, tipping off
- Roller covers: nap lengths for smooth, semi-rough, rough surfaces
- Rolling techniques: W pattern, back-rolling, avoiding stipple
- Common defects: brush marks, roller texture, runs
- Practical exercise: paint a wall section with brush and roller

Day 10: Spray Painting Equipment and Techniques

- Spray equipment components: gun, hose, pump, compressor
- Gun adjustments: fluid flow, fan pattern, air pressure
- Spray techniques: distance, angle, overlap, trigger control
- Safety: respirators, spray booths, ventilation
- Cleaning: flushing solvent, disassembly, tip cleaning
- Practical exercise: spray a flat panel with consistent finish

Day 11: Painting Previously Coated Surfaces – Preparation and Compatibility

- Adhesion testing: scrape test, cross-hatch, tape pull
- Coating compatibility: chemical resistance, solvent attack
- Deglossing: liquid deglossers vs sanding
- Spot priming: stain blocking, rust inhibition
- Dealing with failing coatings: scraping, feathering
- Practical exercise: prepare a previously coated surface for repaint

Day 12: Painting New Surfaces – Bare Wood, Metal, and Plaster

- Bare wood: grain raising, knot staining, filler application
- Bare metal: rust removal methods, acid etching, metal primer
- New plaster: drying time, alkalinity test, mist coat
- First coat application: thinning for porous surfaces
- Common problems: bleed-through, blistering, poor adhesion
- Practical exercise: paint a bare wood panel and a metal panel

Day 13: Specialised Coatings and Finishes

- Anti-corrosion coatings: zinc-rich, epoxy mastic
- Fire retardant paints: intumescent, application thickness
- Textured finishes: sand, stipple, orange peel
- Clear finishes: varnish, lacquer, polyurethane
- Two-pack systems: mixing ratio, pot life, induction time
- Practical exercise: apply a textured finish and a clear coat

Day 14: Quality Control, Defect Rectification, and Site Safety

- Quality standards: SANS 10028, manufacturer specifications
- Defect identification: causes and corrective actions
- Rectification techniques: sanding, spot painting, full recoat
- Site safety: housekeeping, ladder safety, waste removal
- Documentation: inspection checklists, material records
- Practical exercise: inspect a painted panel and rectify defects

Day 15: Final Assessment and Practical Integration

- Practical assessment: prepare and paint a composite surface
- Written assessment: multiple choice and short answer questions
- Oral questioning: troubleshooting scenarios
- Feedback session: strengths, weaknesses, improvement plan
- Course summary: key takeaways and resources
- Certification requirements and further learning opportunities

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 **18 NQF credits** at **NQF Level 2**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 48,600.00	R 48,600.00
1	In-House	R 63,200.00	R 63,200.00
1	On-Campus (Pretoria)	R 72,900.00	R 72,900.00

UPCOMING SESSIONS

Start	End	Method	Venue
31 Jul 2026	20 Aug 2026	On-Campus	Mauritius
03 Aug 2026	21 Aug 2026	On-Campus	Dubai, UAE
04 Aug 2026	24 Aug 2026	On-Campus	Pretoria, South Africa
04 Aug 2026	24 Aug 2026	On-Campus	Lagos, Nigeria
05 Aug 2026	25 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	26 Aug 2026	On-Campus	Mauritius
07 Aug 2026	27 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	28 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 119072) 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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