



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

Commercial Industrial Cleaning Chemicals Application Advisory Training

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

Unit Standard 110459 · NQF Level 4 · 10 Credits · 7 Days

COURSE OVERVIEW

This course equips learners with the knowledge and skills to advise on the correct selection, handling, and application of commercial and industrial cleaning chemicals. It ensures compliance with South African health, safety, and environmental regulations, while promoting effective and safe cleaning practices.

Category	Services
Subfield	Cleaning, Domestic, Hiring, Property and Rescue Services
Unit Standard	110459
Accreditation	SAQA Accredited · NQF Level 4 · 10 Credits
Duration	7 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Apply principles of chemical safety and hazard identification when selecting cleaning chemicals for specific surfaces and soils.
- Analyze Material Safety Data Sheets (MSDS) and product labels to determine appropriate handling, storage, and disposal procedures.
- Evaluate the compatibility of cleaning chemicals with different surfaces and equipment to prevent damage and ensure efficacy.
- Implement dilution and mixing procedures according to manufacturer specifications and safety guidelines.
- Demonstrate correct use of personal protective equipment (PPE) and emergency response measures in the event of chemical spills or exposure.

WHO SHOULD ATTEND

- Designed for cleaning supervisors, chemical advisors, and facility managers who are responsible for recommending or overseeing the use of cleaning chemicals in commercial or industrial settings.

COURSE OUTLINE

Day 1: Introduction to Commercial Industrial Cleaning Chemicals

- Overview of the cleaning chemicals industry in South Africa
- Classification of industrial cleaning chemicals (alkalis, acids, solvents, surfactants, enzymes)
- Regulatory compliance: SANS 10047, OHSA, NEMA, SAQA Unit Standard 110459
- Basic hazard identification: GHS pictograms, Safety Data Sheets (SDS)
- Principles of cleaning: soil types, surface compatibility, dilution ratios
- Introduction to personal protective equipment (PPE) and first aid
- Course objectives, assessment methods, and learner expectations

Day 2: Chemical Composition and Formulation Principles

- Chemistry fundamentals: acids, bases, pH scale, surfactants, chelating agents
- Formulation components: builders, solvents, sequestrants, fragrances
- Understanding concentration: weight/volume, percentage, parts per million (ppm)
- Factors affecting performance: temperature, contact time, mechanical action
- Interpreting technical documentation: SDS, product data sheets, batch certificates
- Practical calculations: dilution ratios, cost per use, active content

Day 3: Health, Safety, and Environmental Management

- Toxicology: routes of exposure, dose-response, occupational exposure limits (OELs)
- Risk assessment: HIRA (Hazard Identification and Risk Assessment) process
- Spill containment and clean-up procedures (including neutralisation)
- Waste management: classification, storage, disposal according to NEM:WA
- Safety equipment: eyewash stations, safety showers, fire extinguishers
- Environmental stewardship: green chemistry, biodegradable formulations, reduced packaging
- Emergency response: first aid, medical surveillance, incident reporting

Day 4: Application Techniques and Equipment

- Manual application: spray bottles, mops, cloths, brushes
- Mechanical application: foamers, scrubbers, pressure washers, automated systems
- Dispensing equipment: proportioners, dosing pumps, central systems
- Calibration and verification of dilution ratios using test kits
- Equipment maintenance: cleaning, descaling, storage
- Inspection checklists: before, during, and after application
- Troubleshooting: blockages, inconsistent dilution, foam issues

Day 5: Sector-Specific Applications and Best Practices

- Food industry: CIP (Clean-in-Place), degreasers, sanitisers, HACCP compliance
- Healthcare: disinfectants, sterilants, blood spill management, infection prevention
- Hospitality: multi-surface cleaners, laundry chemicals, floor care
- Manufacturing: heavy-duty degreasers, metal cleaners, solvent alternatives
- Surface compatibility: stainless steel, aluminium, plastics, painted surfaces, glass
- Developing standard operating procedures (SOPs) and cleaning schedules
- Record-keeping: chemical usage logs, batch records, maintenance logs

Day 6: Quality Control, Troubleshooting, and Continuous Improvement

- Quality control: visual inspection, titration, pH testing, conductivity measurement

- Common problems: filming, spotting, etching, discoloration, odour
- Root cause analysis: 5 Whys, fishbone diagram
- Corrective actions: adjusting concentration, temperature, contact time
- Continuous improvement: lean cleaning, reducing water and chemical use
- Evaluating new products: trial protocols, cost-benefit analysis
- Record-keeping for quality assurance

Day 7: Assessment, Integration, and Certification Preparation

- Review of key concepts: chemical types, safety, application, sector-specific practices
- Mock advisory scenarios: client consultation, problem-solving, recommendation
- Written assessment covering theory, calculations, and regulations
- Practical assessment: demonstrate safe handling, dilution, and application
- Feedback and remediation for identified gaps
- Certification requirements: portfolio of evidence, workplace verification
- Professional development: industry bodies, further training, networking

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 **10 NQF credits** at **NQF Level 4**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 28,200.00	R 28,200.00
1	In-House	R 36,700.00	R 36,700.00
1	On-Campus (Pretoria)	R 42,300.00	R 42,300.00

UPCOMING SESSIONS

Start	End	Method	Venue
04 Aug 2026	12 Aug 2026	On-Campus	Pretoria, South Africa
04 Aug 2026	12 Aug 2026	On-Campus	Lagos, Nigeria
05 Aug 2026	13 Aug 2026	On-Campus	Johannesburg, South Africa
06 Aug 2026	14 Aug 2026	On-Campus	Mauritius
07 Aug 2026	17 Aug 2026	On-Campus	Cape Town, South Africa
10 Aug 2026	18 Aug 2026	On-Campus	Pretoria, South Africa
11 Aug 2026	19 Aug 2026	On-Campus	Abu Dhabi, UAE
12 Aug 2026	20 Aug 2026	On-Campus	Mauritius

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 110459) 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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