



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

Static Protection for Designated Persons

Law, Military Science and Security / Safety in Society

Unit Standard 244317 · NQF Level 5 · 15 Credits · 12 Days

COURSE OVERVIEW

This course equips designated persons with the knowledge and skills to provide effective static protection in the workplace. Learners will understand the principles of static electricity, identify static hazards, and implement control measures to prevent incidents. The course ensures compliance with relevant health and safety legislation and promotes a safe working environment.

Category	Law, Military Science and Security
Subfield	Safety in Society
Unit Standard	244317
Accreditation	SAQA Accredited · NQF Level 5 · 15 Credits
Duration	12 days
Training Method	Online, On-Campus, In-House
Certificate	Issued via AATICD LMS – verifiable online

LEARNING OUTCOMES

- Explain the principles of static electricity and its potential hazards in the workplace.
- Identify static electricity sources and assess associated risks.
- Apply static protection measures and control methods to designated persons and equipment.
- Demonstrate the correct use of static protective equipment and grounding techniques.
- Evaluate the effectiveness of static protection measures and recommend improvements.
- Comply with relevant legislation and organisational procedures for static protection.

WHO SHOULD ATTEND

- This course is intended for designated persons, including safety representatives, supervisors, and any employees responsible for implementing static protection measures in their work areas.

COURSE OUTLINE

Day 1: Introduction to Static Electricity and Its Hazards

- What is static electricity?
- Triboelectric charging and charge generation mechanisms.
- Common ESD sources: personnel, materials, equipment.
- Consequences of ESD: equipment damage, fire, explosion.
- Overview of SAQA Unit Standard 244317.
- Relevant legislation and industry standards.

Day 2: Principles of Static Protection

- Grounding and bonding fundamentals.
- Material classifications: conductive, static dissipative, insulative.
- Effect of humidity on static charge.
- Faraday cages and shielding principles.
- Introduction to ESD protective packaging.

Day 3: ESD Control Program Basics

- ESD control program components.
- ESD sensitivity classification (e.g., HBM, CDM, MM).
- Responsibilities of designated persons.
- Training requirements and competency assessment.
- Documentation and record-keeping.

Day 4: ESD Protective Materials and Equipment

- ESD wrist straps: types, testing, and maintenance.
- ESD footwear and heel straps.
- ESD smocks and garments.
- ESD flooring and workstations.
- Ionizers: corona discharge and radioactive types.
- ESD packaging: bags, boxes, and containers.

Day 5: Grounding and Bonding Techniques

- Grounding electrodes and earth connections.
- Bonding conductors and connectors.
- Resistance measurement and acceptable values.
- Grounding of equipment, workstations, and personnel.
- Common grounding mistakes and troubleshooting.

Day 6: ESD Workstation Setup and Maintenance

- ESD workstation layout and components.
- Daily checks: wrist strap, mat, and ground continuity.
- Cleaning procedures for ESD surfaces.
- Handling of ESD sensitive items.
- Housekeeping practices to minimize static generation.

Day 7: ESD Testing and Measurement

- Multimeters and resistance testers.
- Wrist strap testers.

- Surface resistance measurement.
- Static field meters and charge plate monitors.
- Ionizer performance testing.
- Data recording and corrective actions.

Day 8: ESD Risk Assessment and Auditing

- ESD risk assessment methodology.
- Identifying ESD sensitive zones.
- Audit criteria and checklists.
- Documenting non-conformances.
- Corrective action plans and follow-up.

Day 9: Advanced ESD Control Strategies

- ESD control in automated assembly lines.
- Robotics and ESD: grounding of moving parts.
- Cleanroom ESD requirements.
- ATEX and IECEx standards for explosive atmospheres.
- New materials and smart ESD monitoring systems.

Day 10: ESD Training and Communication

- Training needs analysis.
- Creating ESD training materials.
- Effective communication techniques.
- ESD signage and labeling.
- Assessing competency through tests and observations.
- Continuous improvement of training programs.

Day 11: Incident Investigation and Corrective Actions

- Incident reporting procedures.
- Root cause analysis tools (5 Whys, fishbone diagram).
- Corrective action planning.
- Verification of effectiveness.
- Lessons learned and sharing best practices.

Day 12: Integrated ESD Management and Final Assessment

- Review of key concepts.
- Developing an ESD control plan.
- Cost-benefit analysis of ESD measures.
- Final written and practical assessment.
- Certification requirements.
- Resources for ongoing learning.

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 **15 NQF credits** at **NQF Level 5**.

PRICING (PER DELEGATE, EX-VAT)

Delegates	Training Method	Price per Delegate	Total
1	Online	R 43,000.00	R 43,000.00
1	In-House	R 56,000.00	R 56,000.00
1	On-Campus (Pretoria)	R 64,600.00	R 64,600.00

UPCOMING SESSIONS

Start	End	Method	Venue
10 Aug 2026	25 Aug 2026	On-Campus	Dubai, UAE
12 Aug 2026	27 Aug 2026	On-Campus	Pretoria, South Africa
13 Aug 2026	28 Aug 2026	On-Campus	Abu Dhabi, UAE
13 Aug 2026	28 Aug 2026	On-Campus	Mauritius
14 Aug 2026	31 Aug 2026	On-Campus	Durban, South Africa
14 Aug 2026	31 Aug 2026	On-Campus	Cape Town, South Africa
17 Aug 2026	01 Sep 2026	On-Campus	Harare, Zimbabwe
17 Aug 2026	01 Sep 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 244317) 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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