

## ADVANCED ESD CONTROL WORKSHOP & CERTIFICATION

*“Mastering Electrostatic Discharge Protection and Compliance for Critical Electronics Environments”*

### Schedule

Date	Venue	Fees (Face-to-Face)
19 - 20 Feb 2026	Kuala Lumpur, Malaysia	USD 1995 per delegate

### Introduction

As electronics become smaller, faster, and more sensitive, the threat posed by Electrostatic Discharge (ESD) becomes increasingly severe. Organizations that manufacture, assemble, or handle ESD-sensitive devices must implement robust, standards-based controls to prevent failures, warranty claims, and quality issues.

This advanced 2-day workshop provides experienced professionals with in-depth knowledge of ESD risk control, system auditing, measurement techniques, and ANSI/ESD S20.20 compliance. Participants will engage in hands-on labs, real-world diagnostics, and practical exercises to build mastery in ESD-safe practices and program improvement.

### Objectives

By the end of this course, participants will be able to:

- Deepen their understanding of ESD physics and failure mechanisms
- Design and assess comprehensive ESD control systems
- Perform accurate measurements of resistance, field strength, and system integrity
- Audit and maintain compliance with ANSI/ESD S20.20 and IEC 61340
- Lead ESD awareness, training, and continuous improvement programs

## Why Attend

- Gain advanced, hands-on knowledge of ESD control, testing, and diagnostics
- Improve product reliability and reduce costs from latent failures
- Prepare your facility for certification or re-certification under ANSI/ESD S20.20
- Learn from real case studies and failure investigations
- Earn a certificate that demonstrates your ESD technical expertise

## Target Audience

This program is designed for:

- ESD coordinators and control program managers
- Senior quality, production, and engineering staff
- Electronics manufacturing professionals
- Compliance and audit officers
- Technical trainers responsible for ESD awareness

## Individual Benefits

Key competencies that will be developed include:

- Advanced diagnostic and measurement techniques
- Mastery of ESD standards and audit practices
- Greater confidence in ESD risk management and reporting
- Ability to lead ESD compliance initiatives
- Hands-on experience with ESD measurement instruments and audits

## Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Stronger ESD program performance and audit readiness
- Improved component yield and reliability in production
- Reduced damage-related costs and rework rates
- Higher staff awareness and process discipline in ESD handling
- Alignment with global customer and certification expectations

## Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings - ESD failure mechanisms, material properties, standards
- Case Studies - Root cause analysis of real ESD failures
- Workshops - ESD measurements, area qualification, workstation setup
- Peer Exchange - Audit readiness, policy enforcement, and system improvement
- Tools - Checklists, measurement logs, program templates, and audit guides

## Course Outline

### DETAILED 2-DAY COURSE OUTLINE

**Training Hours:** 07:30 AM – 03:30 PM **Daily Format:** 3-4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

#### Day 1: ESD Program Design and Risk Control

- Module 1: Advanced ESD Concepts and Failure Modes (07:30 – 09:30) • Electrostatic models (HBM, CDM, MM) • Failure thresholds of modern components • ESD events in automation and handling
- Module 2: Program Development and Standards Compliance (09:45 – 11:15) • ESD control program elements (per ANSI/ESD S20.20) • System qualification and documentation • ESD roles and responsibilities
- Module 3: ESD Control Measures and Area Setup (11:30 – 01:00) • EPA (ESD Protected Area) layout and grounding systems • Workstations, flooring, tools, garments, and packaging • Selection and validation of ESD control materials
- Module 4: Workshop – EPA Setup and Compliance Review (02:00 – 03:30) • Evaluate EPA layout and materials against control standards

#### Day 2: Measurement, Audit, and Certification Preparation

- Module 1: ESD Measurement Techniques (07:30 – 09:30) • Resistance testing (RTG, RTT) • Static field meters and charge plate monitors • Wrist strap and footwear system testing
- Module 2: Internal Audits and Nonconformance Handling (09:45 – 11:15) • Conducting audits and identifying system gaps • Root cause analysis and CAPA • Preparing audit reports and checklists
- Module 3: Certification and Continuous Improvement (11:30 – 01:00) • ANSI/ESD S20.20 audit and certification process • ESD training, awareness, and documentation • Sustaining long-term ESD control performance
- Module 4: Final Workshop – ESD Program Audit Simulation (02:00 – 03:30) • Teams conduct a mock ESD audit and present findings

## Certification

Participants will receive a Certificate of Completion in Advanced ESD Control Workshop, validating their technical proficiency in implementing and auditing ESD control programs aligned with international compliance standards.

## Why Choose MAWA Events

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