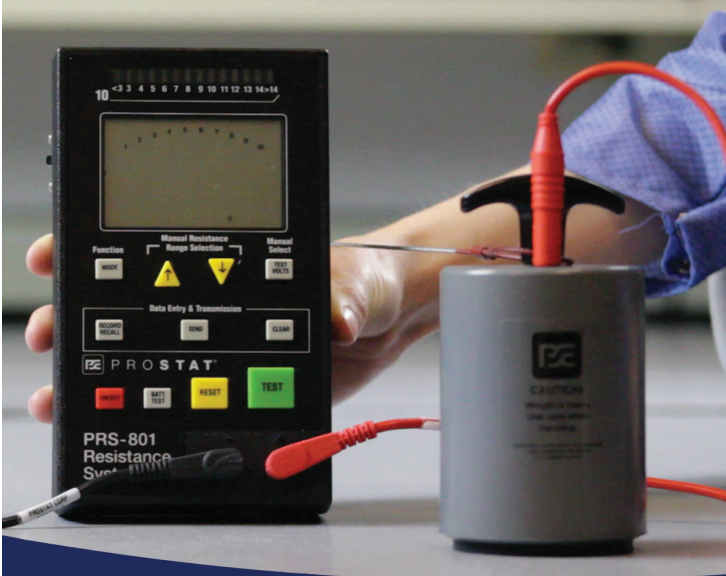


# Level 1: ANSI/ESD S20.20 Plant Auditor



Sponsored by:

**DOU YEE**  
ENTERPRISES

**SH&A**<sup>SM</sup>  
STEPHEN HALPERIN  
& ASSOCIATES, Ltd.

# Program Objective

## SH&A CERTIFIED ESD SPECIALIST® PROGRAM

Knowledgeable companies use ANSI/ESD S20.20 or IEC 61340-5-1 as a basis for their ESD programs. The ESD Certified Specialist Program has been designed to prepare you to effectively implement and manage these programs.

The Specialist Program starts with Level 1: Plant Auditor.

**Level 1: ANSI/ESD S20.20 Plant Auditor** will teach you how to make the required measurements verifying that your process ESD Controls are functional. It includes compliance verification resistance measurements, grounding, bench top ionizer performance assessment and ESD controls troubleshooting.

The SH&A Certified ESD Specialist® Programs prepare industry to meet the handling challenges of ultra ESD sensitive electronic devices that will be commercialized over the next 3 years. SH&A's highly effective training curriculum provide the skills and information necessary to meet these challenges today.

**SH&A Certified ESD Specialist® Program** was designed and is taught by the experts who:

- Developed the ESD iNARTE Certification Program
- Managed the team that created the ANSI/ESD S20.20 program standard
- Chaired the team that wrote the revised IEC 61340-5-1 program standard
- Developed and implemented the ESD Association Facility Certification Program
- Developed the ESD Program Manager Certification Curriculum
- All of SH&A's training courses are taught by experienced ESD Professionals who are Certified ESD Program Manager Instructors and iNARTE Certified Engineers

### Receive your ESDA Certified TR53 Technician's Certification

The ESD Association (ESDA) will certify SH&A Level 1: ANSI/ESD S2020 Plant Auditor attendees who have passed SH&A's certification exam as ESDA Certified TR53 Technicians. Registration with ESDA and one time fees are processed by SH&A.



Date	Time	Location	Cost	Early Registration <sup>1</sup>
18 - 20 July 2017	8:30 to 17:00	Penang, Malaysia	\$1,995.00 USD	\$1,795.00 USD

**Venue:**

Olive Tree Hotel  
76, Jalan Mahsuri  
Bayan Lepas, Penang 11950 Malaysia  
Website: [www.olivetreehotel.com](http://www.olivetreehotel.com)

<sup>1</sup>Requires registration before 18 June 2017

# LEVEL 1: ANSI/ESD S20.20 PLANT AUDITOR (3 DAYS)

## Learning Objectives

The Level 1 ANSI/ESD S20.20 Plant Auditor Course will teach the fundamentals of ESD and train technicians to make the ESD Control Measurements required by ANSI/ESD S20.20 and IEC 61340-5-1 ESD Program standards including:

- Worksurfaces
- Floors
- Chairs
- Mobile Equipment
- Garments
- Personnel Grounding (footwear, wrist straps etc...)
- Ionizers
- Gloves
- Hand Tools
- ESD Ground Verification
- Packaging

This course is 2 days of intensive study that includes the following subjects:

- **Classroom Instruction**
  - ESD Basics for Auditors
  - Device Failure Models and Mechanisms
  - Equipment selection and use
  - Detailed measurement practices
- **Measurement Workshop**
  - Individual instructions on resistance and voltage measurement techniques
  - Hands on practice using state-of-the-art auditing equipment
- **Optional Certification Exam (Day 3)**
  - Candidate demonstrates proficiency in using equipment for required audit measurements
  - Successful candidates are designated as SH&A Certified ESD Specialist® Level 1: ANSI/ESD S20.20 Plant Auditor

***“Highly recommended to all auditors who are responsible for verifying ESD controls.”***

### Contact us for Registration:

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13600 Perai, Penang, Malaysia

Tel: +604 (390) 4824

Fax: +604 (390) 3815

Email Address:

pngsales1@douyee.com.my





# Meet our Instructors



**Stephen A. Halperin**

Stephen Halperin, president of Stephen Halperin and Associates, is a noted ESD consultant with over 30 years experience in advising major domestic and international corporations on ESD control, problem analysis, program design, and management training.

He received the ESD Association's Outstanding Contributions award for his many contributions to industry, and is widely known for developing several effective analysis & control techniques. Steve is the former chair of the ESD Association Standards Committee, Technical Advisor to the ANSI/IEC Executive Committee regarding International ESD standards, member of EIA-541 Task Force One, past member of the ESD Association Board of Directors and Chair of the Association's National Education Council and Professional ESD Certification Program. Mr. Halperin served two terms as President of the ESD Association and is an honored recipient of the ESD Outstanding Contributions Award, and the Joel P. Weidendorf award for his contributions to industry and ESD standards development.



**Ron Gibson**

Ron Gibson is an SH&A Senior Associate specializing in manufacturing process control, training and facility certification in accordance with ANSI/ESD S20.20. He is well known internationally as an outstanding ESD practitioner and as a major contributor to ESD technology for the past 30 years. He was Celestica International's Global Engineering Consultant and Corporate ESD Program Manager. He provided ESD technical guidance and services to all Celestica manufacturing sites, and many other international corporations.

As a respected member of the standards development community Ron was active in the International Electrotechnical Commission (IEC) as the Standards Council of Canada's (SCC) national representative from 1992 to 2012. He was also the Chairman of the IEC 61340-5-1 working group.

He served as the ESD Association's Standards Chair for over 10 years. A member of the ESD Association since 1988, he is still active in several Standards Committees, is currently the Chairman of the ESD Association's Facility Certification Committee, a contributor to and past chairman of the EOS/ESD Technical Symposium, and served in every association officer's positions including two terms as President of the ESD Association.

Mr. Gibson is a recipient of the ESD Association's Outstanding Contributions Award for his life's work and contributions to industry. He has also received the ESD Association's Joel Weidendorf Award and the IEC's 1906 award for ESD standards development.