



SH&A Certified ESD SpecialistSM 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

ATTEND THE PROFESSIONAL CERTIFICATION FOR ESD SPECIALISTS LEVEL 2: PROGRAM DESIGN & ADMINISTRATION SEPTEMBER 21-24, 2010 | BENSENVILLE, IL

SH&A CERTIFIED ESD SPECIALISTSM 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.

Level 2: Program Design & Administration will teach you to Design, Implement and Manage an ESD Program in your factory.

The Specialist Program consists of 2 major training courses.

- **Level 1: Plant Auditor** will teach you how to make the required measurements verifying that your process ESD Controls are functional.
- **Level 2: Program Design & Administration** will teach you to design and document an effective ESD Program based on the sensitivity of the devices handled in your process.
- Candidates who successfully meet Level 1 or 2 program requirements will be certified by SH&A's Senior staff.

OTHER SH&A CERTIFIED SPECIALISTS PROGRAMS INCLUDE:

Level 1: 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.



" Level 1 was 3 exciting days of practical ESD education! "

The SH&A Certified ESD SpecialistSM 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.

LEVEL 2: PROGRAM DESIGN & ADMINISTRATION (4 DAYS)

Required Prerequisites: Be certified as an SH&A Certified ESD Specialist Level 1: Plant Auditor Program. Those who have not attended the Level 1 course should have a good understanding of ESD basics, thorough knowledge of periodic ESD verification measurements and more than one year of in-plant ESD auditor experience.

Learning Objectives

The SH&A Certified ESD SpecialistSM Level 2 Program course will teach advanced elements of ESD Program Design, Documentation, Implementation and Management in accordance with ANSI/ESD S20.20 and IEC 61340-5-1. It includes advanced calculations, Troubling Shooting and Supplier Auditing techniques.

This course is 4 days (3 days classroom, exam on 4th day) of intensive classroom study that includes the following subjects:

- Advanced ESD Basics & Calculations
- Standards, Product Evaluation & Measurements
- Technical Trends & Concerns
- Overview of ANSI/ESD S20.20-2007 & IEC 61340-5-1
 - Selecting & Qualifying ESD Products & Materials
 - Review of reference standard documents
- EPA Design Considerations
 - General Grounding Options
 - Personnel Grounding Options
 - EPA Control Elements
 - Basic vs. Complex Design
 - Detailed Review & Discussion of Control Options, including Pro's and Con's
- ESD Packaging Considerations
- Compliance Verification Assessments
- Personnel Training Issues & Considerations
- Facility Certification: Program Overview & Checklist
- Process Capability Assessment Techniques
- Process Troubleshooting Techniques
- Supplier Auditing Procedures

Attendees completing the course and exam will be able to design and document an effective ESD Program based on the sensitivity of the devices handled in their process.

A written certification exam will be administered on the last day of the program. Attendees who achieve a passing grade are designated as SH&A Certified ESD SpecialistSM Level 2: Program Design & Administrator.

DATE & COST

When: September 21 – 24*, 2010, 8:30 a.m. - 5:00 p.m.

* The written exam will end at 12:00pm on the 17th

Where:

Stephen Halperin & Associates, Ltd. 1072 Tower Lane, Bensenville, Illinois 60106

Cost: \$2,995. USD

Early Registration: Before August 30, 2010: **\$2,795. USD**

For SH&A Certified ESD SpecialistSM Level 1: Plant Auditor:
\$2,495. USD

Holiday Inn Elk Grove Village

The Holiday Inn-Elk Grove is centrally located in the **Centex Industrial Park**. The newly renovated hotel offers 159 deluxe rooms and over 7,000 square feet of conference and banquet space. **Complimentary High Speed Internet** is accessible throughout the hotel.



- Complimentary Shuttle Service to our Training Facility
- Complimentary O'Hare International Airport Shuttle

Ask for the Prostat Group Rate of \$99.00 / night.

Holiday Inn Chicago – Elk Grove Village

1000 Busse Road, Elk Grove Village, IL USA 60007

Tel: (847) 437-6010 Fax: (847) 806-9369

Web access: <http://www.hielkgrove.com/>

Courtyard by Marriott Chicago

The Courtyard by Marriott Chicago, Elmhurst/Oakbrook hotel is newly renovated and appeals to the business and leisure travelers. The Elmhurst Chicago hotel is within easy access to the SH&A Training Facility.



Ask for the Prostat Group Rate of \$99 / night by using code PJYB.

Courtyard® by Marriott® Hotel – Elmhurst

370 N. IL Route 83, Elmhurst, IL USA 60126

Tel: (630) 941-9444 Fax: (630) 941-3539

Web access: <http://www.courtyardelmhurst.com/>

MEET OUR INSTRUCTORS



MEET 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.

Both Steve Halperin and Ron Gibson have been certified as Chief ESD Coordinators and instructors for the Reliability Center of Japan.



MEET 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 25 years. He is Celestica International's Global Engineering Consultant and Corporate ESD Program Manager. He currently provides 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 is active in the International Electrotechnical Commission (IEC) as the Standards Council of Canada's (SCC) national representative and 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 has been active in several Standards Committees, 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 Prestigious ESD Outstanding Contributions Award for his life's work.

" My instructor was very approachable and encouraged questions. He clarified many points for me! "

REGISTRATION FORM
SH&A Certified ESD Specialist Program

Level 2: Program Design & Administration – September 21-24, 2010

Stephen Halperin & Associates, Ltd.
1072 Tower Lane, Bensenville, IL 60106
Tel: 630 238-8883 Fax: 630 238-9717
Web access: <http://www.halperinassoc.com>

- Cost: \$2,995.00 USD
- Early Registration: Paid Before August 30, 2010: \$2,795.00 USD
- Level 1 Certified Attendees: \$2,495.00 USD per attendee

Complete all of below and return to: Fax: +1 630-238-9717
E-Mail: kbecker@halperinassoc.com

All processed and confirmed registrations will receive a confirmation via e-mail.
Registration and Payment Inquiry: kbecker@halperinassoc.com



REGISTRATION CONTACT INFORMATION

Title (Mr/Ms/Dr) _____ Level 1 Certification ID No. _____
First Name _____
Last Name _____
Position/Title _____
Company _____
Address _____
City _____ State/Province _____
Postal Code _____ Country _____
Phone _____ Fax _____
Email _____

Describe your ESD experience

_____ How long? (____) years

CREDIT CARD PAYMENT INFORMATION

Credit Card: MasterCard Visa American Express Discover Others Club

Credit Card Number _____
Expiration Date _____
Security Code (CVV) _____
Cardholder Name _____
Billing Address for Credit Card _____
City _____ State/Province _____
Postal Code _____ Country _____