

EOS/ESD Association, Inc. Tutorial Bundle in Chicago

April 20 - 21, 2020

DoubleTree Hotel Chicago - Oakbrook 1909 Spring Road, Oak Brook, Illinois, 60523, USA

June 16 - 17, 2020

DoubleTree by Hilton O'Hare – Rosemont 5460 North River Road Rosemont, IL 60018

June 18, 2020 Professional Program Manager Exam (Optional)

EOS/ESD Association, Inc., is offering an exclusive Professional Program Manager Certification bundle. For one price you can register for the three required face-to-face and the seven required online courses. Save up to \$2,000 by bundling all of your training to become a certified Professional Program Manager.



EOS/ESD Association, Inc. ESD Program Manager Certification!

Professional program manager certification ensures the understanding of the standard practices and problem solving techniques used to create an ESD protection program in the workplace.

www.esda.org/certification/esda-professional-program-manager/

Attend

3 face
to face
courses

1. ESD Basics for the Program Manager
2. How To's of In-Plant ESD Auditing and Evaluation Measurements
3. ESD Program Development & Assessment (ANSI/ESD S20.20)

Courses are offered at annual EOS/ESD Association events

Attend

7 online
courses

1. Cleanroom Considerations for the Program Manager
2. Ionization Issues and Answers for the Program Manager
3. System Level ESD/EMI: Testing to IEC and Other Standards
4. Packaging Principles for the Program Manager
5. ESD Association Standards Overview
6. Device Technology and FA Overview
7. Electrostatic Calculations for the Program Manager

**Attend online-
anytime!**

Pass

ESD Professional
Program Manager exam

***In conjunction with the annual EOS/ESD Symposium
in the USA and NOW in Chicago, IL USA!***

- ✓ Demonstrates knowledge, experience, and competency.
- ✓ Encourages self-development and continuing education.
- ✓ A check mark in the "plus" column in performance reviews, career advancement, and new employment opportunities.

- ✓ Helps raise the overall competency level of the entire ESD control field.
- ✓ Provides a means to assess the qualifications of personnel hired to work in static control.

Setting the Global Standards for Static Control!

EOS/ESD Association, Inc. 7900 Turin Rd., Bldg. 3 Rome, NY 13440-2069, USA

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FC100: ESD Basics for the Program Manager

APRIL 20, 2020 8:30 AM - 4:30 PM

Ron Gibson, Advanced Static Control Consulting

Certification: PrM

This tutorial provides the foundation material for understanding electrostatics and ESD and their role in the manufacturing and handling of ESD sensitive devices. The fundamental properties of charge, electric fields, voltage, capacitance, and current are discussed with a view towards understanding key electrostatic phenomena and electrical processes. These include charge generation and decay, material properties, and induction. An overview of device failure mechanisms is presented, including how these models impact ESD control programs. Finally, the course provides an overview of ESD control procedures during handling and manufacturing and an overview of ANSI/ESD S20.20 program requirements. This full day course is required for those in-plant auditors and program managers who are working toward professional ESD certification. The presentation includes many in-class demonstrations, videos, and animated slides. Some sample topics covered in this course are:

- Definitions and relationships among important electrical and mechanical properties
- Causes of charge generation and decay
- Field effects and voltages
- Role of capacitance in ESD ($Q=CV$)
- Overview of key measurements including common pitfalls of some measurements
- Review of ESD failure models
- Understanding and demonstrating electrostatic induction
- Utility and limitations of air ionization
- Basic goals of ESD controls
- Properties of effective ESD control products and materials
- Overview of ANSI/ESD S20.20 ESD program development requirements

FC101: How To's of In-Plant ESD Auditing and Evaluation Measurements

APRIL 21, 2020 8:30 AM - 4:30 PM

Ron Gibson, Advanced Static Control Consulting

Certification: PrM

This program reviews the evaluation and periodic verification (audit) measurement procedures for the technical requirements specified in the ANSI/ESD S20.20 ESD program development standard. Detailed explanation of instruments, fixtures, and accessories function and usage are provided. Then, the details of "How to" measure are explained and demonstrated. Measurements include those listed in Table 1: Grounding/Equipotential Bonding Requirements; Table 2: Personnel Grounding Requirements; and Table 3: EPA/ESD Control Items. These recommended measurement procedures confirm the proper operation and use of ESD control products and materials selected as part of a facility's S20.20 ESD control program.

Some sample topics covered in this course are:

- ANSI/ESD S20.20 Technical Control Requirements
- Program Manager's Approach to Instrumentation and Applications
- Testing Ground Circuits and Assessing Connections
- Essential Resistance Measurement Procedures and Concerns
- Electrostatic Field and Voltage Measurements
- Personnel Grounding Considerations vs. ESD Control Points
- Product Installation Baseline Measurements

Evaluation, Acceptance, and Audit Procedures for: Ground Systems, Floors, Worksurfaces, Equipment, Personnel Grounding, Garments, Materials, Production Aids, Packaging, and Ionization Devices

Electrostatic Analysis Measurements including Worksurface Suppression, Footwear/Flooring, and Ionization Decay

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June 18, 2020 Professional Program Manager Exam (Optional)

FC340: ESD Program Development and Assessment (ANSI/ESD S20.20)

JUNE 16 - 17, 2020 8:00 AM - 5:00 PM

John T. Kinnear, IBM Corporation; Dave Swenson, Affinity Static Control Consulting

Certification: PrM

This seminar provides instruction on designing and implementing an ESD control program based on ANSI/ESD S20.20. The course provides participants with the tools and techniques to prepare for an ESD facility audit. This two-day course is an ESDA certification requirement for in-plant auditors and program managers who are working toward professional ESD certification.

The following topics are covered in this course:

- Overview of ANSI/ESD S20.20
- How to approach an assessment
- Administrative elements
- ESD program assessment
- ESD program techniques for different applications
- Technical elements
- Overview of the assessment process
- The audit checklist and follow-up questions

It is recommended that the ESD Program Development and Assessment (ANSI S20.20) be taken after the certification candidate has taken most of the other program manager related tutorials.

JUNE 18, 2020 8:00 AM - 5:00 PM

Optional Program Manager Exam

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About the Instructors:



Ron Gibson is the president of Advanced Static Control Consulting (ASCC), which was founded in 2010. ASCC provides consulting, ESD material and product qualification, and develops ESD training programs for clients. ASCC has been endorsed by the ESD Association as a third party service provider for the training and certification of individuals to TR53. From 1994 to 2010, Ron was the corporate ESD program manager for Celestica International, Inc. and was responsible for the ESD control programs at all of Celestica's factories worldwide. From 1979 to 1994, Ron worked for IBM. Ron co-authored IBM's initial factory ESD standards. Ron has been a member of EOS/ESD Association, Inc. (ESDA) since 1988, and has served as an officer in the positions of president, senior vice president, vice president, secretary, and treasurer. He has also served as chairman of the ESDA Standards Committee (STDCOM) for over 10 years and was the first chairman of the ESDA certification business unit. Currently, Gibson is the chair of the Facility Certification committee that is responsible for certifying facilities to ANSI/ESD S20.20. Gibson is an ESDA certified instructor for the program manager certification program, and is a certified Chief ESD coordinator for the Reliability Center of Japan.



John Kinnear is an IBM senior engineer specializing in process & system technology, and facility certification in accordance with ANSI/ESD S20.20. He has a BS degree from University of Buffalo and a MS degree from Syracuse University. John is well known globally for his technical contributions to national and international standards. He has been the IBM ESD site coordinator for the Poughkeepsie site since 1989. He is past chairman of the IBM inter-divisional technical liaison committee for ESD protection and is an important member of his company's committee to develop and implement the ESD corporate program for IBM. John has coordinated the testing of large mainframes for compliance to EMC, safety, environmental, shipping, and volatile organic emission standards. He has also been the lead engineer on testing large mainframe systems to EMC emissions and immunity standards for FCC, CE Mark, VCCI, and other national requirements. As a member of EOS/ESD Association, Inc., since 1990, John has served in several standards development committees as well as association management positions. John is the appointed technical adviser to the United States National Committee/IEC technical committee 101, where he represents the United States to the International Electrotechnical Commission (IEC). In this

position he assisted in the evolution of international ESD standards and supports international adoption of ANSI/ESD S20.20. As chair of the ESDA's facility certification (ANSI/ESD S20.20) development program, John played major roles in the program's development and industry launch. In particular, John coordinated the initial development of lead assessor training, ISO registrar certification, and witness audits. John has served in every EOS/ESD Association, Inc. officer's position, including vice president, senior vice president, and president. He is the past chairman of the EOS/ESD Symposium technical program committee and past general chairman of the 2004 EOS/ESD Symposium. For his contributions to EOS/ESD Association, Inc., John was presented with the outstanding contribution award in September 2006.



David E. Swenson retired in 2003 after 35 years of service from 3M. While at 3M, he had responsibility for new packaging material development and application, training of 3M personnel worldwide, and providing application assistance to users of static control products globally with particular emphasis on Asia Pacific and Japan. Dave and his wife Geri established a new company, Affinity Static Control Consulting, LLC. in 2003. Dave has been a member of EOS/ESD Association, Inc. since 1984 and has served in many capacities including 1997 Symposium general chair and president of the Association in 1998-1999 and again in 2008-2009. He was re-elected to the board of directors for a fifth term from 2014 to 2016, and served as membership and volunteer activity business unit manager. Dave was presented with the highest award of EOS/ESD Association, Inc., the "Outstanding Contributions Award" in 2002, the Standards Committee "Joel P. Weidendorf Memorial Award" in 2004, and the Association "Edward G. Weggeland" Memorial Award. Dave also serves as treasurer and information liaison for the Texas local chapter of EOS/ESD Association, Inc. He is a member of the Electrostatic Society of America, the UK Institute of Physics, and is a US Expert to IEC TC101, Electrostatics. In addition, he is the convener of joint working group 13 between TC101 and TC40 (Capacitors and Resistors).

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June 18, 2020 Professional Program Manager Exam (Optional)

First Name: _____ Last Name: _____

Company Name: _____

Street: _____ City: _____

State/Province: _____ Country _____ Zip/Postal Code: _____

Address is (please circle the one that applies) Home or Company

Phone: _____ E-mail: _____

Tutorial Selection

- April 20 ESD Basics for the Program Manager \$510 USD/ non-member \$610 USD
- April 21 How To's of In-Plant ESD Auditing and Evaluation Measurements \$510 USD/
non-member \$610 USD
- June 16-17 ESD Program Development & Assessment (ANSI/ESD S20.20) \$1,510 USD/
non-member \$1,610USD
- Professional Program Manager Certification Exam (Optional) \$60 USD

NOTE: You must initiate an official file in your name at EOS/ESD Association, Inc., pay the \$50 USD filing fee, and complete all pre-requisite courses to be eligible to take the exam.

Exclusive 10 course bundle Certified Program Manger Certification

- 3 face to face courses: ESD Basics, How To's and S20.20 \$5,000 USD
7 Online courses: (Class links provided upon payment)
 - Cleanroom Considerations for the Program Manager
 - Ionization Issues and Answers for the Program Manager
 - System Level for the Program Manager
 - Packaging Principles for the Program Manager
 - ESD Association Standards Overview
 - Device Technology and FA Overview
 - Electrostatic Calculations for the Program Manager



Register Online for April at: <http://www.cvent.com/d/nhq0s2>

Register Online for June at: <http://www.cvent.com/d/phq0x6>

To register for the bundle, please use the April link.

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