Penang Skills Development Centre

1 Jalan Sultan Azlan Shah, 11900 Bayan Lepas, Pulau Pinang, Malaysia **October 14th-17th 2019**

October 18th Program Manager Exam (optional) Co-Sponsor





Association, Inc.

 The ESD Program Manager Professional Certification was developed and is maintained Management Chair: by EOS/ESD Association, Inc.

• EOS/ESD Association, Inc. instructors who developed the ANSI/ESDA and IEC ESD Standards bring you today's current information and developments.

 The ANSI/ESD S20.20 Standard and official The EOS/ESD Association is organizing the EOS/ESD ANSI/ESD S20.20 Facility Certification Program Manufacturing Symposium Malaysia. The EOS /ESD was developed and is maintained by EOS/ESD Manufacturing Symposium in Malaysia is focused on discussing issues and providing answers to electrostatic discharge in electronic production and assembly.

Junjun Li, IBM Corporation

Local Chair/co-Chair: Marcus Koh, Everfeed Technology Pte Ltd Bernard Chin, Qorvo



2019 EOS/ESD Manufacturing Symposium China



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| WEDNESDAY OCTO | JBER 16, 2019 | THURSDAY OCTOBER 17, 2019 | | |
|---------------------|---|---------------------------|--|--|
| 9:00 AM - 9:30 AM | Welcome | 9:00 AM - 9:30 AM | 2.1 EOS/ESD in IC Manufacturing | |
| 9:30 AM - 10:00 AM | 1.1 How Do I Get My Manufacturing Site ANSI/ESD S20.20 Certified | | Bernard Chin, Qorvo; Marcus Koh, Everfeed | |
| | Bernard Chin, Qorvo; Marcus Koh, | | Technology Pte. Ltd. | |
| 10:00 AM - 10:30AM | 1.2 ANSI/ESD S20.20 Tailoring for ESD Seating | 9:30 AM - 10:00 AM | 2.2 Automated Real-time System for Prediction and Detection of ESD Parametric Failures in Non-tested | |
| | Intan Fazliana Osman, TienShin Lee, Benchmark Electronics | | Ray Nicanor Tag-At, Ma. Venus M. Gambito, | |
| 10:30 AM - 11:00 AM | Coffee Break - exhibits open | | Merryl Mabias, Western Digital Philippines | |
| 11:00 AM - 11:30 AM | 1.3 Electronic Parts and Electrostatic Discharge (ESD) - Gaps and Mitigation Stratgeies Updates | 10:00 AM - 10:30AM | 2.3 Analysis of ESC/ ESD Control for Wafer Mount and De-taping Process | |
| | Shri G. Agarwal, NASA - Jet Propulsion Laboratory | | Ong Wai Kong (Jeremy), Goh Chin Bee (Maurice), UTAC; Yeo Chee Keong (Benson), Dou Yee | |
| 11:30 AM - 12:00 PM | 1.4 ESD Control Misconceptions and | 10:30 AM - 11:00 AM | Coffee Break - exhibits open | |
| | Incorrect Applications Albert Khoo, GK Yeoh, Charles Ratnam, ESD Consulting | 11:00 AM - 11:30 AM | 2.4 STMicro High Speed AHE ESD Process Assessment | |
| 12:00 PM - 1:00 PM | Lunch Break | | Steve Lim, STMicroelectronics | |
| 1:00 PM - 1:30 PM | 1.5 Managing Electrical Overstress (EOS) in Electronic Manufacturing | 11:30 AM - 12:00 PM | 2.5 ESD Risk Assessment for Automated Handling Equipment | |
| | Vladimir Kraz, OnFILTER | 12:00 PM 1:00 PM | Marcus Ron, Eveneed Technology Fie. Ltd. | |
| 1:30 PM- 2:00 PM | 1.6 Mitigating EMI-Caused Electrical Overstress (EOS) in Manufacturing | 1:00 PM - 1:30 PM | 2.6 ESD Risk Analysis using Pulsed | |
| | Vladimir Kraz, OnFILTER | | | |
| 2:00 PM - 2:30 PM | 1.7 AHE Grounding Considerations: Low to High Frequency | | Joshua Yoo, Ethan Choi, Eliy Koo, Core Insight | |
| | Marcus Koh, Everfeed Technology Pte. Ltd. | 1:30 PM- 2:00 PM | 2.7 Real Time Monitoring of Air Ionization | |
| 2:30 PM - 3:00 PM | 1.8 Smock & Human Body Grounding through Wrist Straps | | Arnold Steinman, Electronics Workshop, NRD, LLC | |
| | Maurice Goh, UMS Singapore; Bernard Chin, Qorvo | 2:00 PM - 2:30 PM | 2.8 Novel Static Charge Reduction Technology Using Simple | |
| 3:00 PM - 3:30PM | Coffee Break - exhibits open | | Tinsel Thread & Humid Air Technique | |
| 3:30 PM - 4:00 PM | 1.9 Other Industry Practice – Garment Fabric Evaluation | | on Web Albert Kow Kek Hing, Alson Kow Chung Hooi, | |
| | Tay, Chin Siang, Suzhou TA&A Ultraclean | | ESD Consultancy | |
| | Technology Co., Ltd. | 2:30 PM - 3:00 PM | Coffee Break - exhibits open | |
| 4:00 PM - 4:30 PM | 1.10 Good ESD Control Cleanroom Nitrile Gloves | 3:00 PM - 3:30PM | 2.9 Impact of Pogo Probes on CDM Testing of Semiconductor Flip | |
| A-20 DM E-00 DM | 1 11 Polyurothano and Enory Paced | | Nelson Loh Jeetanshu Shah AMD | |
| 4.30 FINI - 3.00 MM | Floor Coatings and Sealings Meet the Latest ESD-Standards | 3:30 PM - 4:00 PM | 2.10 FI CDM Effect by Human Body on SSD Testers | |
| | Gerhard Kraus, StoCretec GmbH Kriftel, | | Ku Fwu Haur. Micron Semiconductor Asia | |

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THURSDAY OCTOBER 17, 2019 CONTINUED

4:00 PM - 4:30 PM 2.11 Investigations on Connectors used on Printed Circuit Boards Vesupathy Kannan, Celestica, Inc.

4:30 PM - 5:00 PM

2.12 INVITED: ESD Control Good **Manufacturing Practice (GMP)**

Dennis Manaoat Corupz, Venture Corporation Limited; Marcus Koh, Everfeed Technology Pte Ltd.



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WEDNESDAY OCTOBER 16, 2019

1.1 How Do I Get My Manufacturing Site ANSI/ESD S20.20 Certified

Bernard Chin, Qorvo; Marcus Koh, Everfeed Technology Pte.Ltd.

This paper highlights some challenges and factors to consider when proceeding with ANSI/ESD S20.20 site certification. Suggestions on how to build in a more robust quality system beyond ANSI/ESD S20.20 requirements, together with a discussion of where ANSI/ESD S20.20 can be improved on will also be presented.

1.2 ANSI/ESD S20.20 Tailoring for ESD Seating

Intan Fazliana Osman, TienShin Lee, Benchmark Electronics

The aim of this presentation is to assess the ESD risk of seated operators if they do not wear a wrist strap as part of their personal grounding. This requires a technical report and tailoring statement in ESD Control Plan to assess the ESD seating using resistance measurements, operators' body voltage and appropriate evaluation instruments.

1.3 Electronic Parts and Electrostatic Discharge (ESD) - Gaps and Mitigation Stratgeies Updates

Shri G. Agarwal, NASA - Jet Propulsion Laboratory

Gaps on ESD standards have evolved because of new technology and inconsistencies of standards development (e.g., three zaps vs. one zap per pin for testing). Mitigation strategies include ESD surveys, observations during audits, standards updates (including harmonization of standards), & outreach to the military & space communities.

1.4 ESD Control Misconceptions and Incorrect Applications

Albert Khoo, GK Yeoh, Charles Ratnam, ESD Consulting

This presentation highlights some common real life situations focusing on ionization and ESD material usage, with precautions and solutions needed for protecting the integrity of EPAs.

1.5 Managing Electrical Overstress (EOS) in Electronic Manufacturing

Vladimir Kraz, OnFILTER

EOS management focuses on reduction of excessive voltages and currents that are not caused by static charge. This paper presents EOS management in more detail, such as EOS Measurement, EOS Mitigation, and EOS Survey and Audit.

1.6 Mitigating EMI-Caused Electrical Overstress (EOS) in Manufacturing

Vladimir Kraz, OnFILTER

This paper presents understanding of EMI sources in the manufacturing environment. It discusses how EMI is transmitted to the devices in the process of manufacturing, and how to Block EMI at the source, reduce EMI in transmission, and block EMI at the "target". Practical examples of mitigation of EOS due to EMI on wire bonder soldering will be discussed.

1.7 AHE Grounding Considerations: Low to High Frequency

Marcus Koh, Everfeed Technology Pte. Ltd.

This paper describes the decision-making process on the selection of grouding cables. Careful selection of grounding cables is needed to mitigate random degradation of parametric test yield due to stochastic high frequency ground current noise issues. The study presented in this paper affected more than 200 automated tester handlers of a back-end semiconductor factory when testing Radio Frequency Integrated Circuit ESD Sensitive devices.

1.8 Smock & Human Body Grounding through Wrist Straps

Maurice Goh, UMS Singapore; Bernard Chin, Qorvo

This paper proposes a practical method to ensure all ESD garments satisfy the electric field objective of bonding garment/skin to ground. Quantitative assessments with considerations beyond ANSI/ESD STM97.1 and STM97.2 were made. A proposal addressing dust control violation issues arising from wrist strap worn directly on the skin is provided.

1.9 Other Industry Practice – Garment Fabric Evaluation

Tay, Chin Siang, Suzhou TA&A Ultraclean Technology Co., Ltd.

Using only the ANSI/ESD STM2.1 ESD garment resistance measurement alone may limit the options for fabric selection and, as such, some users have resorted to developing in-house tribocharging evaluation methods. The end goal is to produce a test setup that is practical, yielding reproducible qualitative results based on given possible end-use scenarios.

1.10 Good ESD Control Cleanroom Nitrile Gloves

Heng King Wey, CE Technology Berhad

This paper explores the compounding formulation for manufacturing and post-processing of cleanroom nitrile gloves. The aim of this study is to be able to strike a balance between the ESD properties of surface and volume resistances against acceptable water extractable ion levels to meet specific end-user requirements.

1.11 Polyurethane and Epoxy Based Floor Coatings and Sealings Meet the Latest ESD-Standards

Gerhard Kraus, StoCretec GmbH Kriftel, Germany

Epoxy floors containing so called Ionic Liquids are an economic alternative to rather expensive ESD-floors using conductive fillers, but one has to be aware of the limits of such floors.



THURSDAY OCTOBER 17, 2019

2.1 EOS/ESD in IC Manufacturing Process of GQFN 64L Device

Bernard Chin, Qorvo; Marcus Koh, Everfeed Technology Pte. Ltd.

This paper presents a case study of ESD/EOS events causing low yield in trial lots prior to the release of volume production. Line ESD audits were used to check for static charge, grounding and CDM events. Voltage spike check and split-lot testing were used to determine the root cause.

2.2 Automated Real-time System for Prediction and Detection of ESD Parametric Failures in Non-tested Parts

Ray Nicanor Tag-At, Ma. Venus M. Gambito, Merryl Mabias, Western Digital Philippines Corp.

High ESD DPPM was observed at the incoming slider electrical test at the customer due to ESD failure at the Tape Bond Process. This paper presents a concept to use the test data from RBQST and SDET to analyze potential ESD failures through the change in the MR resistance. If potential ESD failure is detected, the affected lots will be routed to DET for 100% testing.

2.3 Analysis of ESC/ ESD Control for Wafer Mount and De-taping Process

Ong Wai Kong (Jeremy), Goh Chin Bee (Maurice), UTAC; Yeo Chee Keong (Benson), Dou Yee

This presentation introduces an ESD event detector, which sets up a baseline reference with respect to time for: a) process without ESD sensitive devices (ESDS), and b) process with ESDS for different scenarios, in a wafer mount and de-tape process. The author attempts to understand the process and charge mitigation.

2.4 STMicro High Speed AHE ESD Process Assessment

Steve Lim, STMicroelectronics

ESD assessment using resistance and voltage measurements was conducted for a high speed automated handling equipment (AHE) to ascertain whether the AHE met the organisation's ESD specifications. The criteria for pass or fail is the focus of this presentation.

2.5 ESD Risk Assessment for Automated Handling Equipment

Marcus Koh, Everfeed Technology Pte. Ltd.

ANSI/ESD SP10.1 acts as an ESD risk assessment guideline for test personnel to audit Automated Handling Equipment. Two units each of die attached and wire bonder machine were audited. Additional ESD risk assessment considerations, on top of ANSI/ESD SP10.1, were proposed and discussed.

2.6 ESD Risk Analysis using Pulsed AC Ionization Technology

Joshua Yoo, Ethan Choi, Elly Koo, Core Insight

Ionization has a major role in Flat Panel Display (FPD) assembly. While ANSI/ESD STM 3.1 is the test method for evaluation of ionization, there are some limitations that could affect yields. This presentation will discuss the limitations and risks associated with ionization.

2.7 Real Time Monitoring of Air Ionization

Arnold Steinman, Electronics Workshop, NRD, LLC

Air Ionization can be monitored in real time and continuously (24/7). Utilizing Big Data from Air Ionizers can help to predict performance, prevent possible product quality deviations, assist in failure mode/ root cause analysis and can implement an automated statistical process control.

2.8 Novel Static Charge Reduction Technology Using Simple Tinsel Thread & Humid Air Technique on Web

Albert Kow Kek Hing, Alson Kow Chung Hooi, ESD Consultancy

This paper discloses a static charge reduction technique on moving web using mist-free humid air with a blade-like tinsel. With the web's surface just touching the blade-like tinsel under an airflow of 85% - 90% RH or above, the moving web voltage was found to drop to below 5% - 10% of its original value permanently.

2.9 Impact of Pogo Probes on CDM Testing of Semiconductor Flip Chip Packages

Nelson Loh, Jeetanshu Shah AMD

CDM events contribute to a majority of ESD failures, and the type of discharging tip greatly affects the magnitude of the peak current. This study analyses the variation of current with respect to the tip of the pogo pin and recommends the best fit pogo pin for different packages based on the type of their tip.

2.10 FI CDM Effect by Human Body on SSD Testers

Elizar (Bong) Andres, Ku Fwu Haur, Micron Semiconductor Asia

This paper illustrates how an electronic product under test can induce damage to the test instrument. The traditional assumption is that ESDS devices become safer when the capacitance of the product increases. However, the risks this poses to ESD-sensitive testers should also considered.

2.11 Investigations on Connectors used on Printed Circuit Boards

Vesupathy Kannan, Celestica, Inc.

We investigate how the induced voltage on the pins of Press Fit and CMT connectors could lead to ESD related risks. In-depth measurements on connectors and its packaging provide voltage levels which could be then be used to determine the ESD related risk on hi-speed ESDS devices. Effective mitigation actions could then be developed to address these risks.

2.12 INVITED: ESD Control Good Manufacturing Practice (GMP)

Dennis Manaoat Corupz, Venture Corporation Limited; Marcus Koh, Everfeed Technology Pte Ltd.

This paper reflects Venture Corporation Limited's journey and its strategy towards ANSI/ESD S20.20 certification. Overcoming multitude of challenges in upgrading infrastructure, people knowledge and culture. Surpassing management's expectation and gaining employees' full support; even paved the way to an exceptional zero findings in one facility during its first certification audit.

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Penang Skills Development Centre October 14th-17th 2019 October 18th Program Manager Exam (optional) EOS/ESD Association, Inc. brings ESD Program Manager Certification to Asia! ASSOCIATION Professional Program Manager Certification ensures the understanding of the standard practices Certified rogram Mana and problem solving techniques used to create an ESD protection program in the workplace. https://www.esda.org/certification/eosesd-association-professional-program-manager/ 1. ESD Basics for the Program Manager 3 face How To's of In-Plant ESD Auditing and Evaluation Measurements 2. Attend to face 3. ESD Program Development & Assessment (ANSI/ESD S20.20) courses Courses are offered at annual EOS/ESD Association events in Asia 1. Cleanroom Considerations for the Program Manager 2. Ionization Issues and Answers for the Program Manager 3. System Level for the Program Manager Attend online-7 online Packaging Principles for the Program Manager 4. Attend anytime! courses **ESD** Association Standards Overview 5. Device Technology and Failure Analysis for the Program Manager 6. 7. Electrostatic Calculations for the Program Manager Offered for the 1st time in Malaysia! **ESD** Professional October 14th~18th. 2019 Pass Program Manager exam www.esda.org Everfeed Technology Pte Ltd EOS/ESD Association, Inc. 2 Tuas Link 1 Singapore 638590 7900 Turin Rd., Bldg. 3 Rome, NY 13440-2069, EVERFEED τt PH +65 68631488, Email: info@everfeed.com.sg USA PH +1-315-339-6937 • Email: info@esda.org • www.esda.org www.everfeed.com.sg www.esda-asean.com Day Day Day Day 3 Day 4 2 5 Technical Technical How to's in S20.20 Day 1 Exhibition S20.20 Day 2 Exhibition **ESD Basics** plant audit & **Presentation & Presentation &** PrM Exam measurement Talk Talk 5:30-7pm 5:30-7pm PrM Calculation Review Review

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Penang Skills Development Centre October 14th-17th 2019 October 18th Program Manager Exam (optional)

FC100: ESD Basics for the Program Manager

OCTOBER 14, 2019 9:00 AM - 5:00 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 OCTOBER 15, 2019 9:00 AM - 5:00 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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Penang Skills Development Centre October 14th-17th 2019 October 18th Program Manager Exam (optional)

FC340: ESD Program Development and Assessment (ANSI/ESD S20.20) OCTOBER 16-17, 2019 9:00 AM - 5:00 PM

John T. Kinnear, IBM Corporation; Ron Gibson, Advanced 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.

OCTOBER 18

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 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 ES-DA'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.



Penang Skills Development Centre October 14th-17th 2019

October 18th Program Manager Exam (optional)

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| □ Day 3 & 4 ESD Program Development & Assessment (ANSI/ESD S20.20)* | | | \$1,510 USD/ non-member \$1,610USD | |
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Symposium

□ Day 3 & 4 Symposium: Technical Presentation, Talk, and Exhibits^{*} \$800 USD

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* Day 1, 2, 3, & 4, Eligible for HRDF claims under the Kim Bantuan Latihan (SBL) Scheme, subject to prior application to HRDF by the employers/companies.

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For the exclusive bundle price, payment MUST be made before September 15th, 2019.

 3 face to face courses: ESD Basics, How To's and S20.20 (Days 1-4)
 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 at: http://www.cvent.com/d/m6qjyt

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| 1. Each exhibitor receives one 2. SPACE WILL BE ASSIGNE 3. Management reserves the r | (1) symposium registration pack D IN THE ORDER OF RECEIPT ight to relocate exhibit space, as | kage for each booth rented. OF REGISTRATION necessary, to conform to show regulation |
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