



LEADERSHIP EXPERTISE IN PREPARING ORGANIZATIONS FOR CLASS 0 ENVIRONMENTS



PROVIDING ESD SOLUTIONS

EDUCATION AND TRAINING

"Hands On"

*University Partnering for Teaching
On Site ESD/ESA Seminars*

Class Zero Training

System Design Defects

NEW Anti-Counterfeiting

"How To Test" Lab Workshops

ESA in the Cleanroom

ESD Flexible Packaging

Garments & Gloves

Medical Device Packaging

Work Surfaces

ESD Grounding

Ionizer Workshops

Equipment Center Validation

ESD Test Equipment Labs

For

ANSI/ESD S20.20, JEDEC,

SEMI E78, Military Standard 1686C,

IEC 61340-5-1 ESD Programs

CAL POLY

1 May 2008

I have and will continue to recommend this seminar as one of the best ESD packaging learning experiences!

There were plenty of demonstrations and practical applications. The atmosphere was interactive and conducive to learning.

Equipment Validation and Troubleshooting

Bob Vermillion, CPP, FELLOW Certified, ESD Engineer-iNARTE

Actively engaged in the field of ESD since 1985, Bob Vermillion, Founder and President, RMV Technology Group, LLC, provides ESD training, equipment validation, troubleshooting and certification, static control package and materials testing, technical writing, facility audits for factory, cleanroom and sterile environments. RMV technical services include anti-counterfeit training for electronic parts and packaging, technical writing, pre-certification of ANSI/ESD S20.20 for the aerospace and defense, medical device, biotechnology and automotive industries worldwide. RMV is a member of the Association of Independent, Scientific, Engineering and Testing Firms (ACIL), member (IEEE), Consultants Council for the Institute of Packaging Professionals (IOPP). Most recently, Bob founded the ESD Task Force for the Medical Device Committee (IOPP). Bob holds dual Certification as an ESD Control Engineer and Product Safety Engineer (iNARTE), with induction into the College of Fellows, IOPP, in 2007.

Bob has developed advanced ESD technologies for a US patent with several patents pending. One of Bob's developments has been qualified for a NASA Mars Mission.

As an International Speaker for ESDiscovery 2000-2003, Bob conducted ESD Seminars in the USA, Malaysia and Singapore. On-Site Seminars for ESD Factory Issues, Equipment, Materials, Packaging and ESD Test Methods, Bob provides ongoing training and educational development for companies headquartered in the USA, including Mexico, Canada and the Pacific Rim.

Recent publications in both national and technical magazines, you can find up to date and informative articles in A2C2, Conformity and Pharmaceutical & Medical Packaging News.

Equipment Centers – Pick & Place In Process Manufacturing

Bob Vermillion CPP-Lifetime/Fellow, iNARTE Certified ESD Discharge Control & Product Safety Engineer has over 20 years of experience auditing organizations for compliance to practices and taking ESD measurements to accurately map manufacturing and cleanroom facilities with advanced ESD computer interfaced instrumentation.

Some auditing organizations focus mainly on procedures with the minimal use of basic ESD equipment not considered lab grade instruments capable of mapping electrostatic fields with high resolution and detecting ESD events down to the volt.

Let RMV benchmark your facility for compliance. We will test for invaluable resistance, contact voltage, decay, electrostatic fields and ESD event data. We will evaluate, troubleshoot and validate your Equipment Center to pass an audit, improve your throughput, increase your yield and return on investment in a global and very competitive marketplace.

Engineered Materials Qualification & Certification

RMV brings over 20 years of experience with a command understanding and “hands on” know how through advanced materials evaluation, testing for application specific solutions. In our work with the aerospace and defense, semiconductor, disk drive, medical electronics, automotive, pharmaceutical, industrial, biometrics, identification and security industries, RMV can accelerate your product launch by conducting ESD qualification evaluations of your value-added ESD products or raw material for acceptance into the marketplace. We provide advanced electrostatic discharge safe material solutions for product or package, ESD testing for qualification and certification, as we collaborate directly with the key Quality or Packaging Engineering Groups, including R&D and marketing. Because of our long term relationships with key decision makers, in combination with years of auditing and troubleshooting, we understand where product innovations have specific and cost effective applications.

3rd Party ESD Materials & Packaging Testing Laboratory

ESD Testing may include

Resistance
Triboelectric Charge Generation
ESD Events
ESA Fields
Voltage Suppression
Contact Voltage
Faraday Cup
Application Specific Testing

ESD Test Standards

- ✍ ESDA
- ✍ EIA
- ✍ IEC
- ✍ SEMI E78
- ✍ JEDEC
- ✍ NFPA
- ✍ Military
- ✍ ASTM
- ✍ AATCC
- ✍ Corporate

Factory and Cleanroom ESD/ESA Auditing

Our Services include:

- ✍ ISO Class 3 to Class 8 Assessment Audits
- ✍ Equipment Centers
- ✍ Pick & Place
- ✍ In Process Auditing
- ✍ Real Time Auditing with ESD Instruments
- ✍ Pre-Certification for ANSI ESDS 20.20

Static Control Testing & Evaluation

Engineering Services

ESD Testing of Product Packaging & Materials
ESD Coatings Evaluation & Testing
Corporate Specification Writing
3rd Party ESD Factory Audits & Field Testing with lab-grade ESD Instrumentation
.Preparation for ISO and ESD S20.20 Pre-Certification and ANSI/ESD S20.20-2007 [IEC-61340-5-1] Audits and Program Review
End User & Supplier Auditing

Annual Cal Poly ESD Certification Course

COC Supplier Development Program

Redesign for Cost Reduction of Static Sensitive Packaging

What Qualifications Should an ESD Consultant Have?

- ✍ 9+ Years Electrostatics Engineering
- ✍ iNARTE Certified ESD Engineer
- ✍ Static Control Materials expertise
- ✍ ESD Test Methods Troubleshooting
- ✍ Excellent written/Oral communication Skills
- ✍ Evaluate, Audit, Solve for cost savings!
- ✍ ANSI/ESD Standards Committee (to stay up to date on new test methods and research)
- ✍ ESD Software Instruments for Testing
- ✍ White papers and magazine writing
- ✍ Excellent Customer Endorsement!
- ✍ Ability to Generate Stand Alone Evaluations and Test Methods
- ✍ Experience in Defense, Disk Drive, Semiconductor, Medical Electronics, Telecom/ Fiber Optics Industry
- ✍ Manage multiple projects concurrently while producing consistent quality results
- ✍ On Time Deadlines

COLLEGE OF FELLOWS AWARD

Bob Vermillion, President, RMV Technology Group, LLC, has been inducted into the College of Fellows by the Board of Directors of the Institute of Packaging Professionals in recognition of his special and outstanding contributions and service to the field of packaging as an individual whose knowledge, skills and conduct as a dedicated professional has truly benefited the packaging industry.



RMV Technology Group, LLC is a SDVOSB/8(a) and SDB Firm. RMV provides static control engineering services, test and evaluation, learning and development for Industry and Academia.

RMV focuses on high technology solutions for static control materials, packaging and equipment, pick and place, including robotics.

With a particular interest in anti-counterfeit measures for static sensitive electronic parts and packaging, RMV provides confidential training in the classroom and lab for inspection, validation and confirmation of the authenticity of your incoming electronic parts and packaging for the aerospace and defense, medical device, pharmaceutical and consumer electronics industries.

RMV is a 3rd Party Independent ESD Investigative Auditing & Testing Arm for USA Manufacturing Sites in China, Malaysia, Korea, Taiwan, Korea, Philippines, South America and Europe©



**Medical Device Packaging
Technical Committee**



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