



## **iNARTE® CERTIFIED AEROSPACE & DEFENSE ESD ENGINEER/TECHNICIAN TRAINING™**

**RMV TECHNOLOGY GROUP LLC**

**NASA Ames Research Center**

**Moffett Field, CA 94035**

## **VIRTUAL and ON-Site Training**

**Group Rates for US Military, DoD Civil Servants  
And Federal Contractors**

Originally developed by RMV Technology Group LLC, a NASA Alliance Partner, the 5-day iNARTE® Certified Space & Defense Training Program is intended for NASA ESD Program Managers and Federal Contractors in support of Mission Critical Programs and Project for the Agency.

With iNARTE® certification by an International Accreditation Body, Exemplar Global/ASQ, RMV exclusively conducts the iNARTE® Certified Space & Defense ESD Engineer/Technician Training at NASA Ames Research Center. Multiple sessions over 5 days with workshops, videos, live demos and experiments in the RMV ESD Lab are conducted for interactive engagement. Hands-On Training of ESD Instrumentation to certify and verify the ESD protective area (EPA) is physically demonstrated with individual participation. A comprehensive review and "Hands On" Instrument exam to verify learning skills and iNARTE® exam is administered on the last day by Exemplar Global, 3<sup>rd</sup> party certification body and member of American Society of Quality (ASQ). A Certificate for framing and *Digital Badge* is provided to share credentials and achievements online through Exemplar Global.

ESD/ESA Issues and CubeSat Integrity, ESD Qualification Test Standards, Troubleshooting Methods in Harsh Environments, Class 0 Safeguards (0Z, 0A & 0B), ESD Packaging & Materials, Material Handling, Storage & Transport, How to Locate and Map ESD Events before Launch, ESD Counterfeit Threats, Utilizing ESD Instrumentation and Case Studies, Workstation EPA Certification & Verification Measurements for NASA-STD-8739.6B, Section 7, ANSI/ESD S20.20 and applicable ANSI/ESD STMs, MIL-STDs, ESD Assessments and troubleshooting are discussed/demonstrated for its impact upon Equipment Reliability for Mission Critical programs and Munition Systems for the DoD.

Training materials are provided through the RMV licensed software portal "whitelisted" by NASA. See Registration Form for pricing details.

## **What You Will Learn**

### **Live and Interactive ESD Measurements**

Class 0Z to  $\leq \pm 50$  V

ESD Events before Launch  
Risks for ESD Latent Failures  
Long Term Storage & Antistats

ESD Packaging Compliance for EEE  
(ESD Sensitive Devices) Components

ESD Mapping for Assessments

"Hands-On" Training of Instruments  
for Qualification, Certification in  
Factory or Lab for ESD Materials

NASA-STD-8739.6B, ANSI/ESD S541,  
ANSI/ESD S 20.20 *plus* TR53  
Limitations outside the EPA, a risk  
for Space & Defense

Workshop Breakout Sessions Daily  
with Five SME Team Leaders!



**RMV Technology Group LLC**  
**NASA Ames Research Park**  
**Space Portal, B-555**  
**Moffett Field, CA 94035**

**650-964-4792**

[esdaerospacetraining.org](http://esdaerospacetraining.org)

## iNARTE® Certified AeroSpace & Defense ESD Engineer Certification™



Headquartered at NASA Ames Research Center since 2008, Bob Vermillion, a foremost Industry Leader in specialty materials science and SME in Electrostatics (Engineered Materials, Packaging & Products), was named the IAWG ESD Technical Authority for NASA in 2018. From development of an advanced NASA Mars Mission Approved ESD material in 1999 and 2002 IoPP Ameristar Winner of the USA Top Electronics Packaging Engineering Design used on Navy submarines, Bob's anti-counterfeit package was a precursor to more advanced methods in use today. Other Awards include IoPP College of Fellows in 2007, the 2018 James A. Russell Lifetime Achievement Award for the Protection of the WarFighter and Packaging Engineering Innovation & Technical Excellence. In 2019, Bob was inducted into the DoD Military Packaging Hall of Fame.

An invited Speaker for the US Army, NASA GIDEP, Cal Poly and other universities, Vermillion was named by Auburn University as a technical expert on ESD and CubeSats for the NASA AAQ (Academy of Aerospace Quality) plus invited talks for NASA QLF, CQSDI, DMDC and NIPHLE to brief on the current state of EEE packaging protection of components for material handling and long-term storage. Founder and Co-Chair of the SAE G-19 Subcommittee on EEE Packaging, Bob is an active member of the NASA Interagency Working Group (IAWG - ESD).

In 2018, RMV designed and developed a unique ESD Aerospace & Defense Hands-On Training Program, then partnered with Exemplar Global (ASQ), a Global Certification Body and member of the ASQ family of companies, that requires college/ work related credentials, to pass a rigorous exam for the globally recognized and prestigious iNARTE® Certified ESD AeroSpace & Defense Engineer/Technician™ certification. In 2021, RMV was awarded the Agency's Certificate of Excellence for development of the Virtual iNARTE® Aerospace & Defense Engineer™ Training program for NASA ESD Program Managers. Most recently, Vermillion was inducted into IOPP (Institute of Packaging Professionals) as an Honorary Life Member for extraordinary packaging engineering achievements for Industry and Government. In 2024, Vermillion, Invited Speaker for the Annual NASA Quality Leadership Forum, Cape Canaveral, presented a white paper on a discovery he made during COVID that will change the traditional protocols for Assembly and Repair work on workstations for ultra-sensitive hardware. For the 2024 Cal Poly CubeSat Developers Workshop, Vermillion presented a white paper on the high failure rate of SmallSats after deployment with solutions that will change the current method of handling components for NASA and DoD mission critical programs and projects.



RMV at NASA 2025 iNARTE® Certified  
Aerospace & Defense ESD Engineer Training

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ESD Traceability to NASA-STD-8739.6B, MIL-STD-97893, MIL-STD-129, MIL-STD-2073, MIL-PRF-81705, related MIL.STDs. and ANSI/ESD S20.20 outside the EPA for extreme environments

### Principal INSTRUCTOR

#### Bob Vermillion, CPP, Fellow

NASA ESD Technical Authority  
DoD ESD Committee  
NASA Level A Instructor  
DoD Military Packaging Hall of Fame  
NASA Interagency Working Group (ESD)  
iNARTE® Certified ESD Engineer  
and Product Safety Engineer

#### Tony Gurga, EE

Special Projects, RMV Technical Staff

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### DoD Contract Vehicle

RMV is a Service-Disabled Veteran  
Owned Small Business  
[esdaerospacetraining.org/contract-vehicles](http://esdaerospacetraining.org/contract-vehicles)



March 2025 Space & Defense ESD  
"Hands On" Interactive Training