ESD 20.20
Electrostatic Discharge Control Program Standard

Your Challenges
Static electricity is considered a mere inconvenience by most. Touching a metal object and feeling that familiar shock is a common occurrence. For many businesses however, electrostatic discharge can wreak havoc and cause considerable and costly damage. Developing an effective Electrostatic Discharge (ESD) control program significantly reduces the potential of ESD interference, reducing costs and preventing defects within manufactured products.

What is ESD S20.20?
The Electrostatic Discharge Association (ESDA) developed ESD S20.20 as a commercial replacement for the military ESD standard MIL-STD-1686. Approved by the American National Standards Institute (ANSI), ANSI/ESD S20.20 has been adopted by the Department of Defense, the U.S. Air Force, and many commercial organizations. Due to its flexibility, it can be used by Original Equipment Manufacturers (OEM) as well as contractors. S20.20 provides the necessary requirements for a company to “design, implement, and maintain an ESD Control Program for activities that manufacture, process, assemble, install, package, label, service, test, inspect or otherwise handle electrical or electronic parts, assemblies, and equipment susceptible to damage by electrostatic discharges greater than or equal to 100 volts Human Body Model (HBM).” The standard does not cover explosive devices initiated electrically, flammable liquids, powders.

S20.20 is comprised of three fundamental ESD control program principles:
A. All conductors in the environment, including personnel, must be bonded or electrically grounded.
B. Ionization systems must be used to neutralize charges on necessary nonconductors in the environment.
C. ESD items being transported outside an Electrostatic Protected Area must be enclosed in static protective materials.
Why Choose TÜV SÜD America?
TÜV SÜD Management Service is a leading ISO 9001 Certification Body in North America, Asia, and Europe. In addition to ISO 9001 and S20.20 certifications, TÜV SÜD also offers ISO 14001, ISO/TS 16949, AS9100, and ISO 13485 certification services.

About TÜV SÜD America
TÜV SÜD America is an internationally recognized testing, inspection, and certification organization, with more than 1,000 experts operating in the United States, Canada, Mexico, and 30 additional countries around the world. This extensive network makes TÜV SÜD America an effective single source for organizations seeking expertise in the certification and auditing of management systems of all types.

Management Systems
- ISO 9001
- ISO 14001
- ISO/TS 16949
- AS9100
- AS9120
- ISO 13485
- ISO 50001
- ESD S20.20
- OHSAS 18001
- TL 9000
- SQF/ISO 22000
- EN 15038
- R2
- FSC CoC

S20.20 Certification
The ESDA authorizes third-party Certification Bodies to perform S20.20 certification. TÜV SÜD is one of just a few S20.20-authorized Certification Bodies. Companies may or may not already have an ESD Control Program in place when they seek certification. For those who do not, S20.20 offers guidance for the development of a plan. ISO 9001 certification is not a requirement for S20.20 certification, but it does make the process easier. TÜV SÜD America can certify organizations to both ISO 9001 and S20.20 in a single on-site visit.

S20.20 is divided into two major sections and includes implementation guidelines for each requirement

Administrative Requirements
- ESD Control Program Plan
- Training Plan
- Compliance Verification Plan

Technical Requirements
- Grounding / Bonding Systems
- Personnel Grounding
- Protected Areas
- Packaging
- Marking
- Equipment
- Handling

Related services

Training / Webinars
TÜV SÜD Academy has developed a suite of training tools offered in a variety of formats which include online webinars and seminars. Visit our website for a complete listing of training opportunities.