

WEBINAR DESCRIPTIONS

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1. Air Ionization Selection Criteria Including Class 0 Applications - April 2021

Air ionization is used as part of a complete static control program to deal with charge on isolated conductors, insulating materials, and moving objects that cannot be grounded. Air ionization can neutralize the charge on these insulated and isolated objects. This webinar will present the information needed to select from the wide range of available ionizers to solve problems caused by static charge. The webinar will first examine the fundamental operating principles of ionizers and then discuss the major types of ionization technologies. Selection criteria for ionizer applications, including performance test methods, environmental, installation and operating conditions, and costs will be described. Practical information for applying ionizers and the use and availability of ionizers for Class 0, S20.20 ESD Control Programs, and other applications will be discussed. This webinar will be of interest to anyone involved in protecting ESD-sensitive devices from the effects of static charge.

2. Cleanrooms Static Control for ESD and ESA – not scheduled

Modern products are increasing in complexity and more are requiring cleanrooms for some part of their production. Many production problems in semiconductors, disk drives, flat panel displays, and medical and optical devices can be avoided by controlling static charge, including the reduction of electrostatic attraction and bonding of particulate, and the prevention of damage to products and equipment malfunctions due to ESD.

Cleanliness and chemical process requirements in the cleanroom make extensive use of insulating materials such as glass, Teflon, Kapton and other plastics. Personnel are enclosed in cleanroom garments, booties, and gloves, also made of insulating materials. The products themselves make extensive use of specialized insulating materials. This variety of dissimilar materials, coupled with low humidity conditions in cleanrooms, assures that high levels of static charge will be generated.

Methods exist for preventing charge generation and dissipating static charge, but the need for contamination control makes some of these methods difficult or impossible to use in cleanrooms. Issues of particle generation, outgassing, and chemical contamination must be addressed when implementing a static control program in the cleanroom. This webinar will look at the issues involved in creating a static control program in a cleanroom. It will cover the usage and limitations of common static control methods in cleanroom work areas. This webinar will provide some guidelines for choosing personnel grounding, static dissipative materials, ionization for use in a static control program in a cleanroom.