



## Managing ESD in Electronics Industry

### **PREAMBLE:-**

Microelectronics suffers a major problem due to static electricity. Electronic components are composed of micro-miniature traces and structures of alternating layers that may be insulative, conductive or semi-conductive. Rapid electrostatic discharge (ESD) can cause damage to these underlying structures via the traces of the component.

ESD damage to electronic components is not as readily apparent as the effect of static electricity in other industries. This is because ESD damage is not generally visible as it occurs and may be latent or not show up in functional testing of electronic devices. ESD damage may lead to premature or intermittent failures. The cost of ESD damage is not simply the cost of the labour and may include all the expenses associated with the field repair. Another cost is that of lost business due to customer dissatisfaction.

**Duration:** 1 working day

### **Course Contents :**

- ESD Awareness & Sources of electro-static charge.
- Effects of ESD on Electronics component and Assemblies
- ESD Protective Materials & Measurement
- ESD Control Techniques
- Check list preparation for ESD Control
- ESD Audit Practice
- The relevant technical Video films as on ESD and its control topics will be screened to get the realistic feel of ESD phenomenon.
- The practical demonstration will also be given on how to prevent the ESD in manufacturing floor.

**Who should Attend :** Engineers, Supervisors, Technicians and professionals working in Design / Production / Quality Assurance / Service activities of electronics industry.

### **Benefits :**

Many companies have implemented ESD Control programs that have reduced their quality defects resulting in significant cost savings. Standards on ISO 9000 certification and IPC 610 E is also driving the need for proper ESD Control programs for quality improvement of products and services. The Participants will be awarded a Certificate.