



# *ESD Control in Electronic Industries*

## **Scope:**

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

Unfortunately, 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 failure. 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

Many companies have implemented ESD Control programs that have reduced their quality defects resulting in significant cost savings. ISO 9000 certification and IPC 610D is also driving the need for proper ESD Control programs

## **Target Participants:**

Technicians, Supervisors and engineers of Design/Production/QA/ Service personnel concerned with electronic product manufacturing/ evaluation

**Duration:** 2 days

## **Course Contents**

- Introduction to ESD, ESD Standards
- ESD Control during manufacturing/usage
- ESD Control techniques
- ESD Audit
- Videos on ESD
- Check list preparation for ESD Control
- Practical ESD Audit Practice



## Methodology

- **Course delivery** : STQC courses are normally delivered in English. However, depending upon the need the course are also delivered in Hindi or regional languages as desired. The STQC- courses are class room type and conducted at STQC Centres.
- **Faculties:** The faculties / trainers for this course are well qualified and experienced Scientists from STQC and have domain specific expertise.
- **Course Material:** The delegates will receive a course book prepared by STQC during the commencement of course. In addition, for hands on practice set of tools and kits will also be demonstrated / provided as appropriate / applicable.

## Benefits

Upon qualification of this course, participants will be able to perform more professionally.

## Further Information

For venue and dates of open advertised courses, please visit STQC website and contact course coordinator STQC Directorate, New Delhi.

**Onsite course and /or tailor made courses can also be offered on specific request.**