

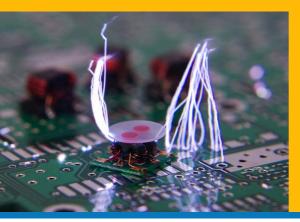
SKILL DEVELOPMENT TRAINING PROGRAMS



Global Electronics Assn Sdn Bhd
(IPC Training Centre)

NCER Technology Innovation Centre (NTIC) Level 1 - Lot 05-06, Plot 36, Hilir Sungai Keluang, 2, Phase 4, Bayan Lepas Industrial Park, 11900 Bayan Lepas, Penang, Malaysia

ESD CONTROL FOR ELECTRONICS ASSEMBLY



Electrostatic discharge (ESD) is a common cause of damage to electronic components, especially sensitive ones like integrated circuits, transistors, and diodes. ESD occurs when a sudden flow of electricity between two objects with different electric potentials, such as a human body and a circuit board, creates a spark or a shock. ESD can degrade, destroy, or alter the performance of electronic components, leading to failures, defects, or reduced reliability. Therefore, managing ESD risks and preventing damage to electronic components is a crucial aspect of electronics manufacturing.

Due to the rapid advancements in the electronics industry, component circuitry density and technology are getting more complex and ESDS items are becoming more sensitive. To meet the challenges in this ever-growing field implementation of ESD control plans become essential.

Who can Participate

ESD Coordinator, technicians, Engineers engaged in electronics manufacturing process.

Instructor

IPC Trainer qualified in ESD Program Associate certification program

Mode of Training

Instructor-led, hands-on practical training is available through In-house/Live programs

Certificate:

Participation certificate will be provided

Benefits of Participation:

The course will highlight Electrostatic Discharge control for electronic assembly. The session helps introduce participants to the causes of ESD and the steps taken to mitigate its effects when handling, storing or transporting ESD-sensitive components in a manufacturing facility. You will learn some basic principles and best practices for ESD control and protection. After completing this course, you will be able to employ the preventive measures stipulated in ANSI/ESD S20.20 to mitigate the effects of electrostatic discharge when handling, transferring, or storing ESD-sensitive components in a manufacturing facility.

Session 1: Safety and Handling

- Personnel and equipment safety
- Physical damage and contamination of electronic assemblies

Session 3: Understanding effects of ESD on PCB Assemblies

- Physical principals of ESD
- Materials susceptible to ESD
- Assess ESD damages
- > Strategies to control ESD

Session 2: ESD Introduction

- ▶ Electrostatic Discharge
- ▶ Electrostatic Overstress
- ➤ Electrostatic discharge sensitive components

Session 4: Methods of ESD / EOS Prevention

- ESD for seated operations
- > Static control cloth, ESD control for standing operation
- Continuous monitoring
- Electrical component damage
- ► ESD control in work area
- Handling / packaging ESD devices recommended

Duration: Full Day

Session No	Session Name	Description
1	Introduction	Registration and Introduction of participants
	Overview	General overview of the course
	Safety and Handling	Presentation and Video
2	ESD Introduction	Presentation
	Understanding effects of ESD on PCB assemblies	Presentation and Video
3	Methods of ESD / EOS prevention	Presentation
4	Methods of ESD / EOS prevention	Presentation and Video
	Conclusion	Q&A and Summarizing

IMPORTANT NOTES

- > Session can be organized on Weekend
- > Participation certificate shall be provided to the candidates
- ➤ The course contents and materials are Global Electronics Association USA Copyright. Copy & sharing not permitted

Price

Non Member

RM 1,430.00

Member

RM 1320

For discounts, please connect

Dr. Ranee Ramya, Country Manager – Malaysia +60 17-560 2171 | raneeramya@electronics.org