

### **Description:**

How do you design the printed-circuit-board or systems, so this will be the ESD-safe as possible during production?

ESD is part of EMC problems and in this course, we go into depth how design solutions can look like that provides a better ESD robustness. This is obviously more important with the extremely sensitive components available today.

### **Audience:**

Designers of electronics.

### **Purpose:**

To give knowledge of static electricity and how to design electronics to avoid component damage during the construction phase as well as production.

### **Requirements:**

No special needs, in addition to the knowledge that you already possess as a designer.

### **Contents:**

- Damage & failure rate Test models Device & System
- Standards, organization ESD, a part of EMC PCB & Layout
- Election of Components & Materials Test Methodology Specifications
- Packaging, logistics

The course consists of theory sections interspersed with demonstrations

Trainers of „ESD for Designers“ Course:

#### **Lars-Olov Johansson**

The former CTO of SEMKO, Competent Body and Notified Body in the field of EMC and Radio, secretary of the Swedish Technical Committee on EMC and Bluetooth Qualification Body (BQB). Involved in IEC Standardization work. Originally from Philips as Director of Development.

#### **Mats Hummel**

Our ESD expert in mechanical engineering but also skilled in electronic design and programming of software. Have a background in the development of vehicle displays, test and verification.

#### **Dan Westberg**

Has extensive experience in EMC and ESD work in development projects. Dan has worked with many different product types, and most activities during the product lifecycle, from specification to the recovery of product , but like it best with „engineering support“ and problem-solving.

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