

## IEC 60664 INTRODUCTORY COURSE

The IEC 60664 Introductory Course covers the fundamentals of the IEC 60664 standard, complemented with team exercises and insights from our extensive industry knowledge and experience. This course provides a solid foundation in insulation coordination and prepares your team for effective implementation.

**DURATION:** 2 Days

**LANGUAGE:** English or German

### COURSE CONTENT:

#### Introduction to key topics in IEC 60664

- Transient, steady-state and peak voltage definitions
- Overvoltage categories
- Pollution degree and impact on isolation
- Solid insulation and characteristics
- Comparative tracking index and the relation to IEC 60112 (implications for PCBs)
- Environmental impact on creepage and clearance

#### Design for insulation coordination of clearances

- Dimensioning of clearance and creepage distances
- Defining creepage and clearance distances
- Factors that can influence comparative tracking index and impact on PCB design
- Factors that can reduce the isolation requirements

#### IEC 60664-3 Considerations of potting, conformal coatings

- Design requirements
- Consideration of different coating types
- Coating tests, temperature conditioning and polarizing voltage

#### IEC 60664 Series: additional considerations

- IEC 60664-4 Considerations of high frequency theory and design
- IEC TR 60664-2-2 Considerations of Protective control methods
- Relationships to other standards of IEC 60112 and comparative tracking index
- Detailed industry examples and relation to IEC 60664-2-1

### TARGET AUDIENCE:

Product safety engineers, compliance engineers, product designers, regulatory approval staff, production support engineers, quality assurance staff.

### PREREQUISITES:

This course is suitable for delegates with no prior knowledge of IEC 60664 or can be customized for a more experienced audience.

### FURTHER INFORMATION:

The training takes place either online or live. The duration of the training is 8 hours each day (including a 30-minute lunch break and 2 shorter breaks). On request we grant a discount for group bookings.

**Your partner for functional safety and regulatory compliance.**

## IEC 60664 INSULATION COORDINATION: Equipment within low- voltage systems



We are happy to work with your organization to develop **customized and cost-effective training** that meets your requirements in terms of date, timing and content.

### PLEASE CONTACT US FOR YOUR BOOKING OR ENQUIRY:

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