

EMC for the practice for Engineering- and Service-Staff (MP-EMVPRA)

Short Description

The course is aimed at all personnel in Development, Design, Manufacturing, and Service who require practical knowledge and abilities regarding EMC in their day-to-day work. The individual topics are explained with video films and practice-oriented effects of electromagnetic phenomena are demonstrated, along with the relevant measures for prevention or correction.

Objectives

The aim of the course is to enable you to prevent EMI or correct the faults resulting from it.

Target Group

- Programmers
- Commissioning engineers
- configuring engineers
- Service personnel
- Maintenance personnel

Content

- Points for special attention when planning systems
- What an electromagnetically-compatible control cabinet looks like, especially with variable-speed drives
- How to differentiate software errors, hardware faults and electromagnetic interference (EMI)
- Suitable measuring resources for troubleshooting and how they are used
- Tips and tricks for increasing noise immunity at a later stage
- Static discharge - causes, effects and remedies
- Advantages and disadvantages of different grounding methods, causes of potential differences. How is equipotential bonding carried out?
- Origins, effects and prevention of harmonics, system resonances, harmonic absorbers, lock-out circuits, etc.
- How and when can filters be used to effect
- Everything about cable shield connections
- Motor shaft currents - origins, effects, remedies
- Aspects of lightning protection, from detecting the hazard to the use of protective elements
- Introduction to standardization, CE, EMC directive

Prerequisites

Basic knowledge of automatization

Type

Face-to-face training

Duration

2 days

Language

en