Electrical Safety in Industrial Installations – IEC 60204

Advanced

Objective

The standard IEC 60204-1 Safety of machinery: Electrical equipment of machines and similar standards including NFPA-79 set out the requirement for electrical equipment of machines to ensure that people using the machine are safe, control responses of the machine are consistent and that the electrical equipment may be easily maintained throughout its lifetime.

The objective of the training is to explain the basics of electrical safety of plant and machinery. The requirements of the standard IEC 60204 for the electrical safety of machinery are presented so that the participants understand its requirements when designing, constructing, installing, verifying or maintaining the electrical equipment of the machinery and industrial applications.

Contents

- Introduction to legislation
  - European legislation
  - Key directives
  - Overview of CE marking
  - Other national regulations
- Electrical machine safety in industrial installations
  - Introduction and scope of IEC 60204-1
  - Related standards
  - Definitions
- General requirements
  - Incoming supply
  - Protection against electric shocks
  - Protection of equipment
  - Equipotential bonding
  - Control circuits and functions
  - Operator interface
  - Control devices
  - Conductors and cables
  - Wiring practices
  - Electric motors
  - Accessories and lighting
  - Marking warning signs
- Compilation and check of the technical documentation
- Verification

Target groups

- Electrically skilled persons
- Competent persons
- Nominated persons in control of a work activity
- Responsible qualified electricians
- Nominated persons in control of an electrical installation
- Design engineers

Benefits to you

- Get to understand the scope and the relevant electrical equipment
- Learn and understand the standard requirements for human and machine
- Understand the specific requirements to prevent inadvertent operation
- Know the test and technical documentation requirements to verify that the machine or assembly of machines complies with the standard

Your optimum qualification path:



- Introduction: Introduction to Machinery Safety
- Fundamental: Fundamentals of Machinery Safety
- **Advanced:** Electrical Safety in Industrial Installations – IEC 60204
- Expert: CMSE – Certified Machinery Safety Expert

__Note:__ Most Pilz UK courses, including this one, can be hosted at external locations. Travel expenses for the trainer would be included in the cost.

Course Details:

Duration:	**1 day** 9:00 – 17:00
Fee:	**£500**[1] **+ VAT per person** (Plus travel expenses, if course is run off-site.)