

Basic Knowledge of Electrical Distribution Systems (HV/LV) (H-BASIC)

Short Description

This training provides a technical introduction to the key components and principles of electrical power systems, including electrical safety provisions, network structures (HV, MV and LV), and the operation of transformers, generators, and motors. Through theory and practical examples, participants gain a solid understanding of safe and reliable electrical installations.

Content

This course offers an in-depth technical introduction to the key components and principles of electrical power systems (high and low voltage). Topics covered include:

- **Electrical Safety Provisions** - The training provides an overview of various safety devices such as fuses, (different types of) switches, and relays, and how these are applied to ensure personal safety and operational continuity. Selectivity and coordination between these provisions are also discussed.
- **Electrical Network Structures** - The construction and characteristics of high voltage, medium voltage, and low voltage networks are discussed, including the treatment of the neutral point, redundant power supply concepts, and the n-1 principle. This provides insight into the design and operation of modern electricity distribution systems.
- **Transformers, Generators, and Motors** - The operation, testing, and protection of these crucial electrical machines are extensively covered. Additionally, the requirements for parallel operation of generators and transformers are addressed.

Through a combination of theory and practical examples, this course provides electrical engineering professionals with a deep understanding of the essential components and principles underlying reliable and safe electrical installations. The course is a valuable addition to the knowledge and skills of engineers, technicians, and maintenance personnel working in industry, utilities, and infrastructure.

This is a module from the complete STIPEL HS/LS training in preparation for the STIPEL basic test. This training does not include a STIPEL exam. For this, refer to the Siemens STIPEL Training courses.

Type

Face-to-face training

Duration

2 days

Language

nl

Fee

1,300 EUR