SIEMENS

Online Training - LV Switchgear Products & Coordination (LV-SWPC)

Objectives

--The participants will learn the functional principal and operation of the Low Voltage power distribution and control products like ACB, MCCB,SDF, contactors, relays and SIMARIS Software.
--The main emphasis of the course is on teaching practical product knowledge, in order to enable maintenance, inspect and service LV Switchgear products, to find simple errors, and to replace the spare parts.

Target Group

Operation/ Service / Maintenance/Commissioning Staff.

Content

• Introduction and basic principles of low-voltage switchgear, switching principles.
• Basic Concepts of fault level, current carrying capacity.
• Principle of selectivity and cascading
• Function and operation of 3WL & 3WT circuit breakers.
• Installation and de-installation of the standard accessories.
• Introduction in protection settings of circuit breakers (characteristic curves)
• Overview of communication regarding 3WL air circuit breakers (Only theory)
• Maintenance instructions.
• Function and operation of 3VA & 3VT MCCB.
• Installation and de-installation of the standard accessories.
• Overview of communication regarding 3VA MCCB.
• Function and operation of HRC fuse and Switch Disconnector Fuse.
• Function and operation of Contactors.
• SIRIUS Brand, features, Benefits.
• RLT Contactor, Vacuum Contactor product range, features.
• Compactness DOL, RDOL.
• Overload Relays, Motor Protection Circuit Breaker function and operation- why MPCB needs to be used.
• Type-2 Co-ordination and Co-ordination chart reading.
• Introduction to Timers and Relays.
• Introduction of Soft-starter, working principle and range.

Prerequisites

Basic principles of electrical engineering and power distribution, knowledge of technical options and specifications of LV Switchgear products.

Note

After this course participants shall able to troubleshoot the errors, inspect and service LV Switchgear products, change or replace the spares/accessories. Also they will learn the SIMARIS software which can be helpful in the Designing part.

Type

Online-Training

Duration

4 days

Language

en