
Omnivise Electrical Solutions -medium voltage switchgear +digital protection devices (K-ES-142)

Short Description

Operation and testing of a Nxair medium voltage switchgear + engineering and testing of protection functions for switchgears

Objectives

The participants learn to operate the medium voltage switchgear with a focus on safety at work and understand their components and interlockings. Introduction to commissioning of digital motor protection devices.

Content

- General design: Pressure Relief Duct, withdrawable Circuit Breaker, Introduction
- Switching Device Compartment
- Busbar Compartment & Cable Connection Compartment; Low Voltage Compartment
- Operating Tools/Service Truck/ Circuit Breaker Panel
- Interlockings, Earthing
- Operation Modes of the Circuit Breaker / Circuit Breaker
- HSE at work: 5 safety regulation, Selection Guide for Protective Equipment for Working in Electrical Installations
- Service/ Maintenance

Practical Training

- Racking the withdrawable circuit-breaker / circuit-breaker truck to operational position
- Racking the withdrawable circuit-breaker / circuit-breaker truck to test position
- Taking the withdrawable circuit breaker out of the panel
- Earthing the feeder manually/ Local operation of CB in Test position/ Remote operation of CB in operational position
- Digital protection devices from Siemens
- Description and functions of motor protective functions and protection circuits
- Introduction to the operating software for digital protection devices and OMICRON Testuniverse
- Introduction to the commissioning documentation
- Execution of a secondary injection test (OMICRON) with exemplary protective functions under use of the
- commissioning documentation (instructions, check lists, wiring diagrams, parameter lists)

Prerequisites

- Target group: Operation and Service/ commissioning staff of medium voltage switchgears
- Requirements: Basic knowledge of electrical engineering
- Number of participants: max. 6
- Language: English
- Duration: 5 days
- Location: Power Academy Erlangen, Virtual Classroom
- Date: upon consultation

Type

Classroom training

Duration

5 days

Language

en