

OMICRON Academy Training in Cooperation with CE Power

Power System Protection Testing with the CMC Test System

Duration: 3 days
Date: Vecka 37 10-12 September 2019
Language: English
Location: Hotel Sunlight
Nyköping, Sweden

Welcome!



Power System Protection Testing with the CMC Test System

Summary: Learn how to efficiently test overcurrent, distance and transformer differential relays with the OMICRON Test Universe. Get familiar with the test procedure in hands-on and theoretical sessions. Work with special test set-ups that simulate the substation in the classroom.

Audience: Technical staff from utilities, transmission and distribution networks, railway grids, service companies and manufacturers involved in protection testing

Prerequisites: Basic knowledge of power system protection

Duration: 3 days **Language:** English

Objectives

- > Performing commissioning, trouble-shooting and periodic tests of protection relays
- > Testing overcurrent, distance and transformer differential relays with the OMICRON Test Universe
- > Creating and modifying automated test plans and customized test reports
- > Using the OMICRON Test Universe from scratch

Training topics

- > Quick current and voltage output for easy wiring tests
- > Configuration of the test object parameters and the test hardware
- > Creating test plans which adapt automatically to newly entered relay settings
- > Creating a flexible test plan for overcurrent relays including testing pick-up values and trip times
- > Hands-on testing of the overcurrent protection function
- > Creating a flexible test plan for distance relays including testing the trip times and zone reaches as well as switch on to fault (manual close) and auto-reclosing
- > Hands-on testing of distance relays
- > Creating a flexible test plan for transformer differential relays including testing the stability during external faults, the tripping characteristic, the trip times and the harmonic restraints
- > Hands-on testing of transformer differential relays

Tools

- > Control Center, QuickCMC, Ramping, Pulse Ramping, Overcurrent, Advanced Distance, State Sequencer, Autoreclosure, Advanced Differential (Diff Configuration, Diff Operating Characteristic, Diff Trip Time Characteristic, Diff Harmonic Restraint)
- > CMC 256, CMC 256plus, CMC 356

Strategy

Our trainer explains the procedure of protection testing, while providing the necessary background knowledge. This is done in alternating theoretical and hands-on sessions. Specific questions and requests of the customers are also taken into account by the trainer.

The practical parts are performed with OMICRON Test Towers. These are equipped with notebooks, distance and differential relays (Siemens 7SA6, 7UT6 and Areva P435, P633) CMC test sets and the OMICRON SimBox which simulates the field related to the protective relays.

During the practical sessions in small groups up to 3 persons the participants gain direct test experience and enhance their acquired knowledge

Hotell Information



Kontakt information

Hotel Sunlight
Nytorget 7
SE-611 10 Nyköping
Phone: +46 155-20 50 20

www.sunlight.se

Har både gym och en fin pool. Som ingår i rumspriset.

Bokning

Bokning av Hotell-rum, görs av deltagarna själva som bokar sina rum DIREKT till hotellet via mail konferens@sunlight.se eller telefon och uppger CE POWER. Deltagare betalar direkt till hotellet.

Kursanmälan.

Vi startar kursen tisdag 10 sept.08:30 och slutar på torsdag 12 sept.16:30.

(Ni bör komma redan 9 sept. på em.om ni har långt att resa)

Ev. avbokning: < 4 veckor innan debiteras 75 % av avgiften, om ni inte ordnar reserv.
< 2 veckor innan 100 % av avgiften, om ni inte ordnar reserv.

Anmälan är bindande och skall vara gjort senast 2019-07-01 Vecka 27

Men försök göra det så fort som möjligt. **Först till kvarn !**

Faktura, sändes direkt efter er anmälan. (Betalningstid 30 dagar)

OBS. Vissa företag kräver att ni sänder formell beställning

Registering

Komplettera er anmälan enl. nedan !

CE POWER AB, www.cepower.se
E-mail: christer.ekstrom@cepower.se
Mobil: +46 72 70 80 100

Efter kursen kommer alla att få ett certifikat på ert deltagande.

Training: Testing with the OMICRON CMC Test System
Date: 10 – 12 september. 2019
Location: Hotel Sunlight, Nyköping, www.sunlight.se
Price: 19.500,00 SEK

Last name	Address
First name	Country
Company	Phone
Department	E-mail

(Only one participant per document)

Undertecknad av behörig person skriver på denna bindande anmälan

Date, Signature