

SVC Power System Protection & Testing

Date

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14 July -18 July 2024

SALALA

3200

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Course Overview:

In theoretical , the towers feature distance and differential relays of different manufacturers and enable realistic test situations by simulating the bays related to the relays.

Upon completion of this course, students will be able to:

- Perform commissioning, trouble-shooting and periodic tests of protection relays
- Test overcurrent, distance and transformer differential relays with the SVC Test Universe
- Create and modify automated test plans and customized test reports
- Use the SVC Test Universe from scratch

who should attend?

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

Course Outlines:

- 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 over current relays including testing pick-up values and trip times
- Hands-on testing of the over current 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

Training Methodology:

- Presentation & Slides
- Audio Visual Aids
- Interactive Discussion
- Participatory Exercise
- Action Learning
- Class Activities
- Case Studies

- Workshops
- Simulation



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