Recloser Control testing with ARCO 400 – Virtual Class

⏱ 1 day	💬 English	# oCprs16en

Learn how to test recloser and sectionalizer controls quickly and reliably with ARCO 400. Become familiar with the software guided workflow of ARCO Control and learn how to prepare reusable test plans for standardized testing.

Objectives

> Become familiar with the theory of reclosers and their application in the distribution system
> Perform easy and efficient tests of recloser and sectionalizer controls
> Learn about voltage-based distribution system restoration and how to test it
> Prepare reusable test plans with ReCoPlan for standardized and time-saving tests

Content

> Theoretical background of reclosers and sectionalizers, their protective functions and automated distribution restoration schemes
> Getting to know the easy test setup of ARCO 400 and its smart controller adapters
> Performing simple manual trip and close checks just with the ARCO hardware
> ARCO Control overview
> Performing wiring checks
> Determining pick-up values of overcurrent curves
> Testing the reclosing sequence of recloser controls under various conditions
> Testing overcurrent operating characteristics
> Getting to know the testing principles of voltage-based restoration schemes
> Testing 2nd harmonic blocking functions
> Creating test plans with ReCoPlan and executing them with ARCO Control

Solutions

ARCO 400
Different controller adapters
ARCO Control
ReCoPlan

Audience

Technical staff from electric utilities, service companies and manufacturers involved in recloser maintenance, installation and testing

Prerequisites

Basic knowledge about distribution systems and protective devices

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Session 1 – 10:00 AM – 12:00 PM
> Introduction
> Theoretical background of reclosers and sectionalizers
> ARCO 400 hardware overview
> Test setup of the ARCO 400
> ARCO Control overview
> Performing wiring checks with the Analog Output Check tool
> Overview of recloser overcurrent operating characteristics and reclosing logic
> How to use the Pick-Up tool to test the pickup value of overcurrent curves
> How to use the Tripping Sequence tool to test the reclosing sequence of recloser controls
> How to use the Trip Time Characteristics tool to test the overcurrent operating characteristics
> How to use the Sequencer tool
> How to use the Direct tool

Session 2 – 1:00 PM – 3:00 PM
> Voltage-based restoration schemes and how to test them using the Restoration tool
> Second harmonic blocking function and how to test it using the Harmonics tool
> Creating test plans with ReCoPlan
> Executing test plans with ARCO Control
> Feedback and wrap-up

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