



Line and ground impedance measurements with CPC 100 & CP CU1



🕒 1 day

🌐 English

Clin01en

Learn how to connect the test set by following relevant safety procedures. Get familiar with the CP CU1 for line impedance measurements to calculate the settings for protection parameterization as well as for ground impedance and touch potential measurements to assess your grounding systems.

Objectives

- > Connecting the test set to a power line by following relevant safety procedures
- > Performing line impedance measurement by using the dedicated template
- > Interpreting the results of the line impedance measurement and get the relevant data for the distance relay settings
- > Performing ground impedance as well as step and touch voltage measurements by using the dedicated templates
- > Interpret the results of the ground impedance and step and touch voltage measurements

Content

- > K-factor theory for understanding of relay parameterization
- > Application and usage of the CP CU1 hardware
- > Connection of the test set to the power line
- > Performing and assessing line impedance measurements
- > Derive settings for the distance protection device
- > Performing and assessing ground impedance / step and touch potential measurement

Solutions

The Sequencer test card
The dedicated templates for line impedance, ground impedance as well as step and touch voltage measurement
The CP CU1 and CP GB1
The CP AL1

Audience

Technical staff from utilities or companies involved in determining data for relay parameterization and for measuring and assessing grounding systems

Prerequisites

Knowledge of electrical engineering