Course SEP674

Course goal
The goal of this course is to learn the structure, concepts and functions of RET670. Participants will practice device configuration and parameterization with the help of the PCM600 tool.

The course combines both theoretical lectures and practical exercises.

Learning objectives
Upon completion of this course the participants should be able to:

- Comprehend the main Transformer protection functions in RET670.
- Configure and engineer a RET670.
- Do relevant settings
- Test of the Transformer differential protection and its features.

The exercises make use of modern numerical test sets. Test will be done to verify the setting and configuration of RET670.

Participant profile
This training is targeted towards users who already know the fundamentals of protective relay theory and who have a desire to know the functions of RET670.

Prerequisites
Participants should know the fundamentals of working with control systems and electrical power networks.

Furthermore, they should have participated in course SEP601 Protection and control IED manager PCM600 or have corresponding knowledge. This as previous knowledge concerning how to use the PCM600 tool is required when working with the exercises.

Also, be aware that all scheduled courses will be in English.

Topics
- RET670 applications
  - Pre-configurations
- RET670 Transformer protection functions
  - Differential protection
  - Restricted earth fault protection
  - High impedance differential protection
  - Thermal overload protection
  - Over excitation protection
- Configuration, settings and testing of IED

Course type and methods
This is an instructor led course with interactive classroom discussions and associated exercises. Approximately 60% of the course is hands-on activities.

Duration
The duration of the course is 3 days.