GRID AUTOMATION TRAINING

Phasor measurement unit RES670
Course SEP675

Course goal
The goal of this course is to learn the structure, concepts and functions of RES670. 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:

- Understand the main PMU functions in RES670.
- Configure and engineer a RES670.
- Perform required parameter settings
- Identify synchrophasor data format.

The exercises make use of modern numerical test sets. Test will be done to verify the setting and configuration of RES670.

Participant profile
This training is appropriate for customers and users who already have the basic knowledge of power system transmission and stability and a desire to know about the functions of synchrophasor measurement unit RES670.

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.

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
- Synchrophasors and their application
- RES670 applications
- RES670 main functions
- RES670 auxiliary functions
- IEEE C37.118 Data streaming over TPC/UDP
  - Capturing IEEE C37.118 data
  - Verifying IEEE C37.118 data
- Configuration, setting and testing IED
Course type and methods
This is an instructor led course with interactive classroom discussions and associated exercises. Approximately 50% of the course is hands-on activities.

Duration
The duration of the course is 2 days.