

**Course Overview:**

Our experienced trainer provides a thorough introduction to the IEC 61850 standard. In alternating theoretical and hands-on sessions the main aspects of the standard are explained. You will become familiar with the implementation of IEC 61850 by working with IEDs from different manufacturers.

**Course Objective:**

- Design and analyze IEC 61850 based communication systems
- Use the client/server, GOOSE and sampled values services for power utility automation
- Configure the communication according to the IEC 61850-6 standard
- Perform commissioning and functional testing of IEC 61850 based IEDs and systems

**Course Outline:**

- Basics of IEC 61850
- Data models and services
- Specific communication mappings
- Configuration and engineering
- Basic aspects for designing communication networks
- Client/server communication for SCADA applications
- GOOSE analyses and applications
- Sampled Values basics
- Engineering of an IEC 61850 application
- Hands-on testing of IEC 61850 IEDs and systems

**Who Should Attend:**

Technical staff from electric utilities or companies involved in project planning, commissioning or maintenance of IEC 61850 systems

**Training Language:**

EN / AR

**Training Methodology:**

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