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## IEC 61850 Training Courses

### The background

#### **IEC 61850, the new standard to facilitate interoperability in power utilities**

Since 2004, IEC 61850 is the global standard used for communication systems and networks in the power utility automation. Optimized for reliable and efficient process data transfer, it facilitates the communication between IEDs (Intelligent Electronic Devices) and electrical substations.

It has been designed to operate via Ethernet or high-speed data network.

### The challenge

#### **Preparing engineers, decision makers and operators to get ready for IEC 61850 and Smart Grid**

Understanding the IEC 61850 standard is of crucial importance for all the actors involved in power utility automation and communication.

Our courses will equip the participants (engineers, managers, consultants, developers) with theoretical and practical knowledge in IEC 61850 data modeling, communication and configuration services. Qualified experts will illustrate how to integrate new and existing utilities, renewable energy system and manufacturing plants into the Smart Grid.



Qualified training course with hands-on training directly on the devices.

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#### **Target groups**

- Protection and Electrical Engineers, substations designers and planners, control engineers and communication experts
- Consultants, project managers, operators of energy utilities, business developers
- Utility managers technical advisors decision makers, long-term strategy consultants

#### **Your benefits**

- You will be trained directly on devices
- You can better manage and configure the smart grid related systems
- You better understand the protection
- You gain in-house expertise
- You can respond faster to unexpected events

#### **TÜV SÜD Embedded Systems – Our services**

With over 600 locations worldwide, TÜV SÜD is the experienced partner of choice when it comes to integrating producer and supplier units in the Smart Grid.

#### **Our trainings at a glance:**

- IEC 61850 base level setting
- Smart Grid Integration of Power Utilities and Plants
- Automation of Substations and Protection
- Data models and Data modeling for Smart Grids
- Requirements Engineering for Smart Grids
- Testing for Smart Grid: Compliance, Conformance and Interoperability
- Security for Smart Grid: IEC 62351 and other important standards

**Contact us today – our experts will be happy to assist you with detailed advice:**

#### **Your contact:**

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