

IEC 61850 Training - 19 to 21 September 2011

Mumbai, India

“IEC-61850 Applied To Substation Automation”

IEC 61850

IEC 61850 is an international standard originally designed for the integration of electric utility substation devices. Used for essentially all new substation development in several places around the world. Many new regions are now starting to adopt the standard. It is also being extended for use in wind power generation and for the management of distributed energy resources (DER). IEC 61850 uses advanced communications techniques to address data management and simplify integration of applications.



About IEC-61850 Training

- A 3-day comprehensive seminar plus training workshop on IEC61850 standards for Substation Automation.
- This training will cover the theoretical aspects behind IEC 61850 by reviewing the salient standards of IEC 61850 and supplement it with demonstrations of 61850 communications between clients and servers, IED-to-IED communications using GOOSE messages, the philosophy of inter-operable engineering and configuration using Substation Configuration Language with demonstration of 61850 engineering tools like SCL Manager. It will further look at up gradation of legacy devices using 61850 enabled OEM modules.
- The training workshop is designed so as to provide valuable knowledge on 61850 standards to power utilities and personnel involved with the implementation and commissioning of substation automation solutions using IEC 61850

Who should attend?

This training course is designed to assist the stakeholders involved in development and implementation of IEC 61850 for substation automation. This training is intended but not limited to engineers and technical staff involved in installing, configuring and maintaining or operating substation automation and control systems, using IEC 61850.

This training course is designed to introduce users with the practical insight of IEC 61850 and also includes examples from successful implementations done by Kalkitech internationally to:

- *Utility Engineers*
- *System Integrators*
- *OEMs*
- *Maintenance Staffs*
- *Consultants*
- *Substation Automation*
- *System Designers*

We are Members of:



Training Schedule- IEC 61850 Protocol, Utilities and Tools Training



	Day 1	Day 2	Day 3
	Overview of IEC 61850 - Introduction to the specs - History of IEC61850 - 61850 Specification Basics - Edition 2 Updates	61850 Specification Review - 7-2 ACSI - LN Class Model - Data Class Model - Data Sets, Control Class	61850 Specification Review - 7-3 Common Data Attributes & Classes -7.4 Compatible LN & LD classes - Rules for new LNs & CDCs
10:45 - 11:00	Break		
11:00 - 12:30	Introduction to Substation Configuration Language (SCL) - ICD - IID - SSD - SED - SCD - CID	61850 Specification Review - 7-2 ACSI - Goose and GSSE. - Logging and Reporting - Sampled Value Transmission - File Transfer	61850 Specification Review 8-1,9-1,9-2 SCSM - Communication Stack - Station bus and Process bus - Mapping to MMS - GOOSE & Sampled Value (SMV) Mapping
12:30 - 13:30	Lunch		
13:30 - 15:00	SCL Manager Demonstration - Create S/S Specification SSD - Create IED ICD files - Import ICDs into S/S Spec - Configure S/S > SCD	MMS Protocol - History of MMS - Features and models - Applicability to 61850	GOOSE & Sampled Value (SMV) Demo using - IED Simulator - Packet Sniffer
15:00 - 15:15	Break		
15:15 - 17:00	61850 Specification Review - 7-2 ACSI - Server ClassModel - Logical Device Class Model	Client/Server Demo using - OPC server - IED Simulator - Packet sniffer Upgrading of Legacy Devices - Use of OEM Modules	Applicable Domains - Substation - Hydro - DER - Wind Security Updates: IEC 62351 Ongoing Developments

IEC 61850 Training References

Highlights

- More than 2 years of outbound training experience
- Across following countries
 - India
 - Saudi Arabia
 - South Korea
 - U.S.A.
- Both theoretical as well as implementation training
- Training provided to OEMs, utilities and educational institutes

Key Beneficiaries



IEC 61850 Training Registration Details



Intake	30 Participants only
Workshop Fee	The workshop fee* will be 25,000 INR per person. --- Early Bird Discount: 10% (Only till August 31st – Register today to avail it) Government Utilities & Academic Institutes are entitled to a discount of 15% Group Discounts: If a group of three or more people is from the same company, they will be entitled to a discount of 15%.
Registration	Registration open from 1st August to 10th September Contact us: <ul style="list-style-type: none">• By Email: training@kalkitech.com• By Telephone: +91-80-4052 7900• Contact Names: Anoop George / Irfan Ahmed
Mode of Payment	E-Payment: Cash Credit Account : 31078884987 Bank & Branch: SBI, JP Nagar Branch, Bangalore RTGS/ NEFT code : SBIN000 6959 Swift code: SBI N IN BB 424
Personal details required for Registration	Name: Company: Department: Official email id: Telephone Number:
Cancellation/Refund Policy	<ul style="list-style-type: none">- Cancellations received within the registration window will be fully refunded minus administrative charges- Cancellations within 2 business days post closing of registration window are subject to the 50% event fee minus administrative charges- Further cancellation is not refundable- If you don't cancel and don't attend, you are still responsible for payment. Substitutions can be made at any time

Note: *Fee covers the charges for breakfast and lunch during all 3 days. Taxes will be extra.

Kalkitech Products:

IEC 61850 SCL Tool | DLMS Source Code | Protocol Gateways | PDC | Plant Efficiency | ABT Software | AMR Software | Enterprise Integration | Remote Monitoring | DCU | DMS

Kalkitech Services:

Services: [Substation Automation](#) | [Communication Protocols](#) | [Consulting](#) | [Power System Studies](#)

Contact us:

Kalki Communication Technologies Limited

#147, 5th Main road, HSR Layout 7th sector,
Bangalore 560102, India.

Ph: +91-80-40527900

Email : training@kalkitech.com

Website: www.kalkitech.com