

IEC-61850 Protocol, Utilities and Tools Training

	Day 1	Day 2	Day 3
09:00 - 10:45	Overview of IEC61850 - Introduction to the specs - History of IEC61850 - 61850-Basics	61850 Specification Review - 7-2 ACSI LN Class Model Data Class Model Data Sets, Control Class	61850 Specification Review - 7-3 CDC Common Data Attribute Types Common Data Classes - 7-4 LN Compatible LN & Data classes
10:45 - 11:00	Break	Break	Break
11:00 - 12:30	Introduction to Substation Configuration Language (SCL) - ICD - SSD - 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 SCSSM Communication Stack Station bus and Process bus Mapping to MMS Mapping of Goose and GSE
12:30 - 13:30	Lunch	Lunch	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 -Variable Access Model -MMS Journaling model -Device Description -MMS and IEC Standardization	Substation Connectivity - Substation to Control Center - Wrapping non-61850 IEDs/RTUs - Demonstration of Kalkitech Substation Gateway
15:00 - 15:15	Break	Break	Break
15:15 - 17:00	61850 Specification Review - 7-2 ACSI -Server ClassModel -Logical Device Class Model	Client/Server Demo using - SISCO AX-S4 MMS OPC Server - Kalkitech 61850 Simulation Server - Ethernet Packet sniffer	Advances in related technologies - CIM (IEC-61970) - PMU/PDC (C37.118) - Security

Note: Contents of this document is subject to change. Kalkitech reserves the right to modify the contents without prior notice.