

## IEC61850 Advanced Training and Implementation Workshop with MMS-Ease-Lite

	Day 1	Day 2	Day 3	Day 4	Day 5
09:00 - 10:45	Presentation - Introduction - 61850-Basics - Configuration (SCL)	61850 Specification Review - 7-2 ACSI LN Class Model Data Class Model Data Sets, Control Class	61850 Specification Review - 7-4 Compatible LN &LD classes System LNs, LNs for Protection, LNs for Control,Generic Reference... Rules for new LNs&CDCs	MMS-Ease Lite Introduction - Product Overview MMS-EASE Lite Porting Aspects - Memory Management - Network Layer	61850 Server (Rough Design) - Server Design - Sample Code -Sample Server Compilation
10:45 - 11:00	Break	Break	Break	Break	Break
11:00 - 12:30	MMS -Variable Access Model -MMS Journaling model -Device Description -MMS and IEC Standardization	61850 Specification Review - - 7-2 ACSI Goose and GSSE. Logging and Reporting Sampled Value Transmission File Transfer	SCSM -8-1,9-1,9-2 Communication Stack Station bus and Process bus Mapping of 7.2 and 7.3 data attributes Mapping of Goose and GSE	61850 Appl. Development - Object Definition File - Connection Management - Variable Access - Initial Settings - Creating Libraries	Sample Server Test
12:30 - 13:30	Lunch	Lunch	Lunch	Lunch	Lunch
13:30 - 15:00	61850 Specification Review -7-1 -Basic Communication structure Overview	61850 Specification Review - 7-3 CDC Common Data Attribute Types Common Data Class Specifications.	Substation Configuration Language The SCL language and Syntax ICD,SSD,SCD and CID	MMS Virtual Lite (MVL) - MVL Overview, Configuration & Connection Management MVL Services (Server & Client) - Data Structures - Services	61850 Client (Rough Design) - Client Design - Sample Code -Sample Client Compilation
15:00 - 15:15	Break	Break	Break	Break	Break
15:15 - 17:00	61850 Specification Review - 7-2 ACSI -Server ClassModel -Logical Device Class Model	Client/Server Demo - using AX-S4 MMS OPC Server -Q&A-	SCL Example. SCL Manager Demo Q&A	Open Questions and Issues	Sample Client Test Open Questions and Issues

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