



IEC Standards for Power Systems –
 Generation, Transmission, Distribution, ... Design, Bidding, Engineering,
 Automation, Monitoring, Information Management, Maintenance, ...



Comprehensive Seminars and hands-on Training

You'll get up-to-date, first-hand & neutral, **vendor independent** knowledge, experience, Do's and Don't's and guidance from the editors of standards ... the fastest start in application and implementation of traditional and advanced information and communication systems to reach **sustainable interoperability of your assets**.

Communication for RTUs	<ul style="list-style-type: none"> • IEC 60870-5-101 and -104 • IEC 61850, IEC 61400-25 	<ul style="list-style-type: none"> • Modbus • DNP3
Communication for Protection	<ul style="list-style-type: none"> • IEC 60870-5-103 • DNP3 	<ul style="list-style-type: none"> • Modbus • Profibus
IEC 61850 IEC 61400-25	<ul style="list-style-type: none"> • Basic Knowledge of IEC 61850 • Advanced Knowledge of IEC 61850 • IEC 61850 for substation automation • System design aspects • IED design and engineering aspects 	<ul style="list-style-type: none"> • IEC 61850 outside substations • System migration aspects • Products and projects • Conformance and interoperability • Hands-on training with IEDs and Tools
Control center information and communication	<ul style="list-style-type: none"> • IEC 61970 CIM • IEC 61968 	
Inter-control Center Communication (IEC 60870-6-TASE.2; ICCP)	<ul style="list-style-type: none"> • Basics • Services and protocol • Examples 	
Security	<ul style="list-style-type: none"> • IEC 62351, NERC CIP, IEEE 1686, ... utility requirements 	
MMS (Manufacturing Message Specification, ISO 9506)	<ul style="list-style-type: none"> • Basics • Services and protocol • ASN.1 and BER 	<ul style="list-style-type: none"> • Hands-on • MMS in IEC 61850 and IEC 61400-25 • MMS in IEC 60870-6 TASE.2 (ICCP)
Fieldbus	<ul style="list-style-type: none"> • IEC 61158, EN 50170, Profibus DP PA FMS ..., ProfiNet, CAN in Automation, ... 	

more than 1.700 experts
 from more than 350 companies
 from more than 50 countries
 educated

Public Seminars and Training on IEC 61850:

27. January 2009	Mexico City – Overview IEC 61850, ...
02. February 2009	DistribuTECH, San Diego – Overview IEC 61850
03-06. March 2009	Frankfurt (Germany) – Comprehensive Hands-on training
most asked help is for:	inhouse courses and hands-on training

Details and Registration: <http://www.nettedautomation.com/seminars/uca/sem.html>

Other subjects, locations and dates for public and in-house training courses need be negotiated according to your requirements. Please contact us.



... we bring Standards, People, Tools,
 Devices, and Systems together!

