

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

- IEC 60870-5-101 and -104
- IEC 61850, IEC 61400-25
- Modbus
- DNP3

Communication for Protection

- IEC 60870-5-103
- DNP3
- Modbus
- Profibus

IEC 61850 IEC 61400-25

- Basic Knowledge of IEC 61850
- Advanced Knowledge of IEC 61850
- IEC 61850 for substation automation
- System design & engineering (SCL)
- IEC 61850 outside substations
- Implementation aspects
- System migration aspects
- Products and projects
- Conformance and interoperability
- Hands-on training with IEDs and Tools

Control center information and communication

- IEC 61970 CIM
- IEC 61968

Inter-control Center Communication (IEC 60870-6-TASE.2; ICCP)

- Basics
- Services and protocol
- Examples

Security

- IEC 62351, NERC CIP, IEEE 1686, ... utility requirements

MMS

(Manufacturing Message Specification, ISO 9506)

- Basics
- Services and protocol
- ASN.1 and BER
- Hands-on
- MMS in IEC 61850 and IEC 61400-25
- MMS in IEC 60870-6 TASE.2 (ICCP)

Fieldbus

- IEC 61158, EN 50170, Profibus DP PA FMS ..., ProfiNet, CAN in Automation, ...

2,000+ Experts
from 400+ Companies
from 50+ Countries
trained

25+ Years of
Excellence

Public Seminars and Training on IEC 61850:

26.-28. April 2010	Buenos Aires (Argentina),
28.-30. April 2010	São Paulo (Brazil)
05.-07. May 2010	Frankfurt (Germany)
18.-20. August 2010	Paris (France)
22.-24. September 2010	Frankfurt (Germany)
19.-20. October 2010	Dallas (TX, USA)
02.-05. November 2010	Stockholm (Sweden)
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!



Karlheinz Schwarz, NettedAutomation GmbH, Im Eichbaeumle 108

76139 Karlsruhe/Germany Phone +49-721-684844, Fax +49-721-679387

karlheinz.schwarz@nettedautomation.com <http://iec61850-news.blogspot.com> www.nettedautomation.com