

zenon ENERGY TRAINING

Energy Edition Program

Duration: 2 Days

Training Hours: 08:30 ~ 16:00

TRAINING OVERVIEW

The program provides a practical introduction to the engineering of electrical power distribution and substation applications. Through hands-on exercises and guided project development, participants learn how to create and manage electrical network visualizations, implement safe switching concepts, configure operational interlockings, and engineer modern energy distribution systems. The training combines engineering best practices with real-world scenarios to provide participants with the knowledge required to create reliable, maintainable and scalable energy applications.

Participants will learn:

- Configure IEC 61850 communication
 - Create Single Line Diagrams
 - Implement Automatic Line Colouring
 - Configure Command Processing
 - Create Topological Interlockings
 - Engineer Multi-Source Networks
 - Develop Substation Applications
 - Apply Energy Engineering Best Practices
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DAILY SCHEDULE

08:30 - 10:00 Training Session
10:00 - 10:30 Coffee Break
10:30 - 12:00 Training Session
12:00 - 13:00 Lunch Break
13:00 - 14:30 Training Session
14:30 - 15:00 Coffee Break
15:00 - 16:00 Training Session

DAY 1

Morning Session (08:30 - 12:00)

IEC 61850 communication fundamentals
Variable import and management
Energy project preparation
Single Line Diagram creation
Energy-specific symbol libraries
Sources, devices and network structures

Afternoon Session (13:00 - 16:00)

Automatic Line Colouring (ALC)
Source configuration
Line and branch engineering
Disconnectors and switches
Grounding concepts
Network topology visualization

Learning Outcome

Participants will be able to create a functional energy application, import process data from intelligent devices, build electrical network visualizations and implement dynamic network status indication using Automatic Line Colouring.

DAY 2

Morning Session (08:30 - 12:00)

Command processing concepts
Switching operations
Command groups and actions
User authorisation concepts
Operational interlockings
Safe switching procedures

Afternoon Session (13:00 - 16:00)

Topological interlockings
Multi-source networks
Transformer integration
Branch and substation engineering
Multiple supply concepts
Complete substation implementation

Learning Outcome

Participants will be able to implement secure switching operations, configure interlocking strategies and engineer complete substation topologies using scalable and maintainable design principles.

SKILLS GAINED

- Create electrical network visualizations
- Configure and operate Single Line Diagrams
- Implement safe switching procedures
- Configure interlocking concepts
- Engineer substations and power distribution systems
- Apply energy engineering best practices

EXOR ETI TRAINING PATH

I Basic Training

Foundation Training

- Engineering Studio
- Service Engine
- Variables & Drivers
- Alarms & Users
- Networking Basics



II Advanced Training

- Advanced Engineering
- Archiving & Reports
- Templates & re-use
- Advanced concepts
- Best practices



III a. Energy Training

- IEC Driver
- Automatic Status Indication
- Substation Engineering
- Safe Operations

III b. Report Engine Training

- Reporting Studio
- Automated Reports
- Templates & Filters
- Data Analysis

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