





## Cybersecurity in Substations – Important Aspects for Electrical Engineers



 1 hour

 English

 Wprs01en

Get a concise overview of cyber threats in substations and their countermeasures. Learn how to actively contribute to reduce your substation's exposure to potential attacks. Become familiar with the underlying aspects for a comprehensive Cybersecurity strategy for substation networks.

### Objectives

- > Understanding the attack vectors of modern substations
- > Getting to know the main security threats when working in substations
- > Learning about security aspects when IEC 61850 communication is used
- > Selecting the right countermeasures and preventive actions to take

### Content

- > How cyberattacks on protection and control devices work
- > Attack vectors of typical substations – how attackers can circumvent the firewall
- > Countermeasures for each attack vector
- > Security in IEC 61850 substations
- > How to apply intrusion detection in substations

### Solutions

- > Cyber threat detection in substations with StationGuard
- > Secure access to configuration and test documents with ADMO
- > Cyber-secure IEC 61850 testing with StationScout

### Audience

Technical staff from electric utilities or companies who utilize IEC 61850 communication or plan to use it

### Prerequisites

Knowledge of electrical engineering