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## Omnivise T3000 Engineering, Maintenance & Service (S:T3EMS)

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### Objectives

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This seminar focuses primarily on the engineering, operation, maintenance, and service of the Omnivise T3000 I&C controlsystem. It also offers an overview of protection and turbine control. Training will be reinforced with practical exercises. Participants will implement an automation model in the Omnivise T3000 Workbench with basic measurements for binary and analog signals, drive controls as well as higher-level controls. Participants will commission, troubleshoot and replace defect components by using trends, alarms and reports for analysis and maintenance.

Participants will be able to perform maintenance and service on Omnivise T3000 while the system is running as well as stopped.

### Content

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- HW and SW architecture, server, bus systems, peripherals
- Analog and binary measurement and drives
- Control systems, displays
- Operation: plant displays, navigation, operation, trends, XY diagrams, alarms, reports
- Engineering: function diagrams, plant displays, trends, automation functions, plant display hierarchy
- Diagnostics: alarms, dynamic function diagrams, online help, signal tracing, diagnostic view, management proxy
- Commissioning: information point, online change, signal forcing
- Maintenance: faults in drives and measurements, server, troubleshooting, repair, module replacement
- Server HW, network and SW architecture design
- Shutdown and reboot handling
- Basics troubleshooting of the application Server
- Practical exercises/demo with process simulation:
  - Binary and analog signal acquisition
  - Drives, open-loop and closed-loop controller, plant displays
  - S7 & I/O module exchange
  - Faults in drives, switch gear and measurements
  - Alarms, trends, reports
  - Failsafe system and turbine controller

### Prerequisites

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- Requirements: Basic knowledge of I&C technology and PC operations using MS Windows
- Number of participants: max. 10
- Language: English
- Duration: 15 days
- Location:
  - Power Academy Karlsruhe/Erlangen
  - Power Academy international Training Centers
  - Virtual Classroom
  - Onsite on request
- Date: upon consultation

### Type

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Classroom training

### Duration

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15 days

### Language

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