# Omnivise T3000 Engineering course (OT3K_ENG)

### Short Description

The participant will learn the basic principles and views of I&C engineering, diagnostics and operation of the Omnivise T3000 system. Each student will implement a basic control system model, using the workbench to create both function diagrams and plant displays. Emphasis will be placed on sensor processing/coupling for analog and binary signals, along with motor/actuator control applications.

### Objectives

Upon successful completion of this course, the student should be able to:
- Explain the operation of the control system and network structure
- Identify the automation hardware components
- Navigate through the online documentation
- Distinguish between hardware and software problems
- Create logic and process diagrams for an actual plant model
- Understand operation and configuration modes of operation
- Use the diagnostic view to isolate faults in the system
- Create a “Trend” plant display
- Acquire a good understanding of the usage of Power Plant specific Automation Blocks such as: Sub Loop Controller, Motor Block, Analog Signal Monitoring, Set Point Adjustment, Servo, Device Change Over, RESELect and Operating Hours Counter.

### Target Group

Electrical engineer, electronics technician or competent individual with an electronics background and knowledge of PC operations using MS Windows®. Prior experience with a distributed control system is desirable.

### Content

System hardware and software architecture, redundancy
Peripherals
System documentation
Engineering
- Function diagram
- Plant display
- Archive

Integrated engineering, using AF-blocks and prototypes, creating macros, creating trend displays
Operation
- Faceplates
- Trends
- Alarms
- Display navigation

Diagnostics
- Change of parameters
- Dynamic function diagram
- Forcing ports

Commissioning
- Point view

Plant display hierarchy
Engineering examples
- I/Os
- Logic
- Motor
- Graphics

Omnivise T3000 system summary.

### Prerequisites

Electrical engineer, electronics technician or competent individual with an electronics background and knowledge of PC operations using MS Windows®. Prior experience with a distributed control system is desirable.

### Note

This course is offered at Orlando, FL training facility. Upon request, this course can be offered at customer's facility or remote.

### Type

Face-to-face training

### Duration

4 days

### Language

en

**Fee**

Price 'per seat' (classroom at Orlando, FL training facility) $4600 USD.