



Gas Turbine Control Course 3days (or 5 if required)

Course Objectives:

The course goal is to teach participants the function of the gas turbine control system.

The course will enable the participants to:

- Explain and trouble-shoot the gas turbine control cabinet hardware
 - Control system hardware
 - Cabinet power supply and breakers
 - Marshalling rack
 - P&F signal converters and relays
 - Overview of sub-systems
- Understand the control and protection concept
 - Open and closed loop control functions
 - Machine protection using 3 channel concept (incl. protection matrix)
- Explain and trouble-shoot the gas turbine application software
 - Sequencer programs and release criteria
 - Analyze and simulate conditions in software

Course Contents:

- Control system specific KKS endings
- Cabinet and rack layout
- Signal flow and conditioning
- Process function plans PFUP
- Protection concept and relevant function blocks
- Open and closed loop control functions
- Gas turbine operation concept including sequencers

Location:

- Onsite at your location of choice

Prerequisites:

- Plant Overview and Introduction Course (or similar experience)
- Operator Station Training (or similar experience)
- Advant Control System Course (or similar experience)

Course Format:

- Classroom
- Group Exercises
- Q&A
- Site visits to electronic and control room
- Work on the actual equipment and/or training rack



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Remark:

- It would be an advantage if you had your own training rack (typically built from spares, we can assist with the setup and identification of components required)
- At least one spare computer is required per 2 students to allow for installation of the engineering software already available.