Power Generation Services

Siemens Power Academy – K-T3PCPG Module 3 SPPA-T3000 Steam Turbine Process Control and Fundamentals of Digital Electro-Hydraulic Governors

Introduction

This course outlines the overall concepts of process control for the power generation industry. Specific focus is given to thermal power generation process and application of the Siemens Power Plant Automation T3000 Control System. Hands-on examples and simulated demonstrations are given.

Course Content

Some out of class study may be assigned. All required instructional materials are provided to each student. The following topics are representative of those covered in the course. Actual course content will be customized to the specific customer requirements and plant configuration.

Introduction to Generic Process Control

- Turbine types, design and layout
- Turbine Auxiliary Equipment: requirements and operation
- Turbine Valve requirements and design
- Valve Position Control
- Turbine Warming: requirements and concepts
- Digital Electro-Hydraulic Governor control modes and operation (speed control / load control / valve position control)
- Special functions/devices (Initial Pressure Regulator, Load Limiter, Vacuum Limiter, Anticipatory devices)
- Generator Operation and control considerations, AVR control.
- Turbine Protection Systems and Water Ingress Protection requirements.

Course Details

Location: Siemens Training Office / Customer Site

Size: Max 6 Participants

Duration: 2 days

Contact:

PSCD Training Centre
Siemens Ltd. Australia

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