



Large Steam Turbine-Generator Operations

Course DESCRIPTION (4½ Days)

This instructor-led course is designed to discuss the principles associated with the operation of steam turbines and generators. The fundamentals of plant operation(s) are emphasized. The discussions also target the role the operating staff plays in optimizing plant operations.

Prerequisites

Students should have a plant operations and/or maintenance background and responsibility for operating or maintaining the facility.

Who Should Attend?

This course is designed for power plant personnel involved in the operation of turbines and generators. The course is tailored to meet the needs of auxiliary operators, shift supervisors, operating superintendents, I&C technicians, and engineers.

Course CONTENT

- Basic Turbine Theory
- Turbine and Valve Design
- Turbine Support Systems
- Minimizing Turbine Thermal Stress
- MHC Turbine Controls & Protective Devices
- Electrohydraulic Control Systems
- Turbine Supervisory Instrumentation
- Generator
- Turbine-Generator Operational Guidelines

Course OBJECTIVES

At the end of this course, students should be able to:

- Describe the steam flow path through a large steam turbine
- Discuss the major turbine components
- Describe the function of the major valves for the steam turbine
- List and describe the operation of the support systems associated with the steam turbine
- Discuss the importance of turbine supervisory instrumentation and list the major components monitored
- Explain the construction and operation of a generator



REGISTRATION

Customized classes and site-specific training are available. Call GP Strategies™ Energy Services for pricing and course details. To obtain more information, visit us online at <http://fossilfuelcourses.gpstrategies.com/reg/> or call 800.803.6737.

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