



Heat Rate Awareness

Course DESCRIPTION (2½ Days)

This 2½-day course provides attendees with heat rate concepts, controllable and non-controllable losses, and the effects of component performance on operating costs. The focus will be on developing a detailed understanding of the heat rate effects of operating practices, unit optimization, and environmental compliance.

Prerequisites

Basic understanding of power plant operations. This course incorporates material created under the sponsorship of the Electric Power Research Institute (EPRI).

Who Should Attend?

This course is designed for operators, supervisors, engineers, and management who are directly involved in the daily operation of the plant.

Course CONTENT

- Power Plant Thermodynamics Review
- Calculating the Cost of Heat Rate Deviations
- Controllable Losses
- Boiler
- Turbine
- Condenser
- Feedwater Heaters
- Ancillary Equipment
- Optimization Tools
- Cycle Isolation
- Instrumentation Effects on Heat Rate
- How Does My Job Relate to Heat Rate?

Course OBJECTIVES

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

- Discuss the details of heat rate concepts
- Explain controllable and non-controllable losses
- Explain the effects of component performance on operating costs
- Discuss how heat rate affects operating practices, unit optimization, and environmental compliance

Course MATERIALS

The textbook Heat Rate Awareness, steam tables, and a calculator are provided.



REGISTRATION

To register for open enrollment courses or to obtain more information, contact GP Strategies™ Energy Services at +1 716.799.1080 or 800.803.6737. Visit us online at <http://fossilfuelcourses.gpstrategies.com/crs.aspx>

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