



# Heat Rate: Optimizing Your Power Plant

## Heat Rate-Plant Efficiency Gas Turbine Simple Cycle

This one day course covers the fundamentals of heat rate and the impact of changing heat rate on operating cost. The course includes an overview of heat rate concepts, controllable and non-controllable losses, and the effects of component performance on operating cost.

### I. Heat Rate Basics

- What is Heat Rate?
- Plant Heat Rate
- Conversion Factors for Standard Cubic Foot (scf) to Pounds Mass (lbm)
- Why is Heat Rate Important?
- Heat Rate Deviation
- Cost of Heat Rate Deviations

### II. Gas Turbine

- Gas Turbine Theory
- Gas Turbine Components
- Air Inlet Equipment
- Compressor
- Combustion Section
- Turbine Section