

# **Power Plant Operating Engineer First Class**

## **Qualifications**

Minimum age - Adult

Education - High School Diploma / GED or Equivalent

Experience - Four years

Examination - Written (Oral or Practical when necessary)

Minimum time in previous grade - One year or one year in grade as a Facility  
Operating Engineer 1<sup>st</sup> class.

Maximum Prime Mover Horsepower (Unsupervised) - 7500

Maximum Boiler Size (Unsupervised) HP - 1500 BHP / LP Unlimited BHP

Maximum Refrigeration or Air Conditioning (Unsupervised) - 5000 tons

## **Curriculum at the Minimum**

- Power Plant Safety
- Power Plant Advanced Steam Generator Construction
- Types of Steam Generators
- Power Plant Advanced Steam Generator Water Chemistry
- Power Plant Advanced Condensate and Feedwater Treatment
- Power Plant Advanced Steam Generator Combustion Air and Flue Gas System and Equipment
- Power Plant Advanced Steam Generator Fuel System and Equipment
- Power Plant Piping Systems
- Power Plant Advanced Steam Generator Fittings and Accessories
- Power Plant Advanced Instrumentation
- Power Plant Compressed Air and Hydraulic Systems
- Power Plant Advanced Combustion and Combustion Equipment
- Power Plant Advanced Steam System to Steam Accessories
- Power Plant Advanced Electricity
- Power Plant Advanced Math-Science
- Power Plant Advanced Steam Turbine Construction and Operation and Equipment
- Power Plant Advanced Condenser and Circulating Water System and Equipment
- Power Plant Advanced Extraction Steam Heaters Systems and Equipment
- Power Plant Advanced Air Conditioning / Refrigeration
- Power Plant Advanced Environmental Equipment and Equipment
- Power Plant Combustion Byproduct Disposal and Removal System and Equipment
- Emergency Diesel Systems and Associated Equipment
- Power Plant Backflow Prevention
- Power Plant Personnel Management
- Power Plant Computer Management
- Power Plant Preventative Maintenance