

# **Facility Operating Engineer**

## **Third Class**

### **Qualifications**

Minimum age - 18

Education - High School Diploma, GED or equivalent

Experience - 6 months or 3 credit hour of Boiler Training or equivalent Power Engineering Training and/or completion of the GPiLearn Online Training prescribed courses (see links page for course description)

Examination – Written (Oral or Practical when necessary)

Maximum Boiler Size (unsupervised) LP - 150 BHP

Maximum refrigeration or Air Conditioning (unsupervised) 100 ton

### **Curriculum at the Minimum**

- Basic Mathematics
- Low Pressure Boilers Types and Construction
- Basic Boiler Fittings
- Safety and Relief Valves
- Basic Combustion Theory
- Fuels and Burner Types
- Steam and Hydronic Boilers
- Thermal fluid heaters
- Facility Valve Identification
- Basic Operation and care of Oil and Gas Burners
- Boiler Safety and Operating Controls
- Basic Boiler Operation
- Dangerous Boiler Conditions
- Facility Basic Steam Systems and Accessories
- Basic Electrical Theory
- General Industry Safety
- Facility Basic Potable. Makeup and Cooling Water Systems
- Facility Basic Preventive Maintenance
- Facility Basic Heating and Cooling Systems