

Facility Operating Engineer Second Class

Qualifications

Minimum age - 19

Education - High School Diploma, GED or Equivalent.

Experience 1 year

Note: One year time in grade as a Facility Operating Engineer 2nd class may be used for the 2 years experience for the Power Plant Operating Engineer 3rd class

Minimum time in previous grade - One year

Maximum Boiler Size (Unsupervised) HP - 110 BHP / LP - 450 BHP

Maximum Refrigeration or Air Conditioning (Unsupervised) 100 ton

Curriculum at the Minimum

- Intermediate Mathematics
- Intermediate Electrical Theory AC and DC. and Electrical Equipment
- AC and DC Motors
- Intermediate Heat Transfer and Fluid Flow
- Advanced Combustion Theory
- High Pressure and Low Pressure Boilers Types and Construction
- High and Low Pressure Boiler Safety Fixtures
- Gas and Oil Fuel Systems Maintenance and Operation
- Boiler and Steam System Operation
- Advanced Burner Safety and Operating Control Systems
- Boiler Inspection and Maintenance
- Steam and Hydronic Systems
- Boiler Water and Feedwater Treatment
- Facility Potable, Cooling and Make-up Water Systems Piping and Valves
- Facility Boiler Auxiliary Systems
- Basic Steam Turbine types and Operation
- Basic Steam Engine Operation
- Steam Plant Accessories
- Steam Heat Exchangers and Condensers
- Pump Types and Operation
- Facility Plant Thermal Efficiency
- Facility Intermediate Building Heating and Cooling Systems
- Facility Refrigeration Systems
- Air Compressors
- Facility Pneumatic and Electrical Controls Operation and Maintenance
- Facility Air Pollution and Ecology
- Facility Plant Safety
- Facility Maintenance Management Systems