

Facility Operating Engineer First Class

Qualifications

Minimum age - Adult

Education - High School Diploma, GED or equivalent

Experience - Two years

Minimum time in previous grade - One year.

Examination - Written (Oral or Practical when necessary)

Maximum Prime Mover Horsepower (Unsupervised) - 1000 Hp

Maximum Boiler Size (Unsupervised) HP - 300 BHP / LP Unlimited BHP

Maximum Refrigeration or Air Conditioning (Unsupervised) 500 ton

Curriculum at the Minimum

- Advance Mathematics
- Advanced Electrical Equipment Diagnostics
- Facility Motor Operation and Maintenance
- Facility Lighting Efficiency
- Advanced Fuels Combustion and Efficiency
- Gas and Oil Fuel Systems Operation and Maintenance
- Boiler and Steam System Operation
- Steam System Efficiency
- Advanced Boiler Construction
- Intermediate Physics and Chemistry
- Advanced Boiler Maintenance
- Advanced Burner Safety and Operating Control Systems
- Heat Engines
- Heat Recovery Systems
- Facility Water Usage and Efficiency
- Emergency Diesel Generator Operation and Maintenance
- Pump and Valve Maintenance
- Facility Energy Efficiency
- Facility Building Heating and Cooling Systems Control Optimization
- Facility Refrigeration Systems Operation and Maintenance
- Air Compressor Operation and Maintenance
- Facility Pneumatic and Electrical Controls Operation and Maintenance
- Facility Air Quality Control
- Safety and Environmental codes
- Facility Maintenance Management Systems