

Simple Cycle CT Plant Operating Engineer Second Class

Qualifications

Minimum age - 20

Education - High School Diploma, GED or Equivalent

Experience - Two years

Note: One year time in grade as a Simple Cycle CT Plant Operating Engineer second class may be used for the 2 years experience for the Combined Cycle CT Plant Operating Engineer 3rd Class

Minimum time in previous grade – One Year

Examination - Written (Oral or Practical when necessary)

Maximum Refrigeration or Air Conditioning (Unsupervised) – 1000 tons

Curriculum at the Minimum:

- Gas Turbine Cycles
- Single and Two Shaft Arrangement
- Exhaust Heat Recovery
- Combined Cycle
- Compressors
- Axial Flow
- Centrifugal Flow
- Compressor Stall at Startup
- Combustion Arrangements
- Turbine Construction
- Blade Cooling
- Turbine Efficiency
- Exhaust Frame Assembly
- Gas Turbine Starting Devices
- Oil Systems
- Combustion System
- Fuel Systems and Type Combustors Nozzles/Burners
- Oil, Gas and Air Systems
- Cooling Systems
- Sealing Systems
- Purge Systems
- Primary Air Inlet System
- Environmental Limits
- Generator electrical theory
- Basic Refrigeration
- General Industry Safety