



AMERICAN SOCIETY OF POWER ENGINEERS, INC.

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Simple Cycle CT Plant Operating Engineer

Third Class

Qualifications

Minimum age - 19

Education - High School Diploma GED or equivalent. Completion of the GPILearn Online Training prescribed courses (see links page for course description).

Experience - One Year Simple Cycle CT operations and/or maintenance Examination - Written (Oral or Practical when necessary)

Maximum Refrigeration or Air Conditioning (Unsupervised) - 600 ton

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
- Basic Electricity
- Basic Refrigeration
- Turbine and generator safety devices
- General plant safety
- Environmental Concerns.