Examination Experience Requirements

Steam Certifications

Low Pressure Boiler Attendant – 3 months experience in a low pressure (15 psi or less) plant. This certification is for a person not directly in charge of a boiler but must make periodic checks of its operation on a regular basis.

Reference books: "Low Pressure Boilers, 4th Edition By Steingress & Walker

Low Pressure Boiler Operator – 6 months experience in a low pressure (15 psi) or high pressure (over 15 psi) plant or 3 months experience and completion of an accredited course of study in Low Pressure Boiler operation.

Reference books: "Low Pressure Boilers, 4th Edition By Steingress & Walker

High Pressure Boiler Operator – 6 months experience in a high pressure plant or 3 months experience in a high pressure plant and possession of a Low Pressure Boiler Operator certification for a minimum of 1 year. 3 months experience in a high pressure plant and completion of an accredited course of study in High Pressure Boiler operation.

Reference books: "High Pressure Boilers", 5th Edition by Steingress, Frost & Walker

Third Class Stationary Engineer – 1 year experience in a high pressure plant or 6 months experience in a high pressure plant and possession of a High Pressure Boiler Operator certification for a minimum of 1 year. Or 6 months experience in a high pressure plant and completion of an accredited course of study in Stationary Steam Engineering.

Reference books: "Stationary Engineering" 4th Edition by Steingress, Frost & Walker

Second Class Stationary Engineer – 1 year experience in a high pressure plant having steam turbine driven equipment or 6 months experience and possession of a Third Class Stationary Engineer certificate for a minimum of 1 year.

Reference books: "Stationary Engineering" 4th Edition by Steingress, Frost & Walker

First Class Stationary Engineer – 18 months experience in a high pressure plant having steam turbine driven equipment or 1 year experience and possession of a Second Class Stationary Engineer certificate for a minimum of 1 year.

Reference books:
"Stationary Engineering", 4th Edition by Steingress, Frost & Walker
"National Board Inspection Code"
ASME Code Section 1 – Rules for the construction of power boilers.
ASME Code Section 6 – Recommended rules for the care and operation of heating boilers.
ASME Code Section 7- Recommended guidelines for the care of power boilers.

Chief Stationary Engineer – 3 years' experience in a high pressure plant having steam turbine driven equipment or 2 years' experience and possession of a First Class Stationary Engineer certificate for a minim of 1 year.

Reference books:
"Stationary Engineering", 4th Edition by Steingress, Frost & Walker
"National Board Inspection Code"
ASME Code Section 1 – Rules for the construction of power boilers.
ASME Code Section 6 – Recommended rules for the care and operation of heating boilers.
ASME Code Section 7- Recommended guidelines for the care of power boilers.
"HVAC Water Chillers & Cooling Towers" 2nd Edition by Stanford.

Combined Cycle Combustion Turbine Certifications

Third Class Combined Cycle Combustion Turbine Engineer – 1 year experience in a combined cycle plant or 6 months experience in a combined cycle plant and possession of a Third Class Simple Cycle Combustion Turbine Engineer certification for a minimum of 1 year.

Reference books:
"Stationary Engineering" 4th Edition by Steingress, Frost & Walker
"Gas Turbine Engineering Handbook" 4th Edition by Boyce

Second Class Combined Cycle Combustion Turbine Engineer – 1 year experience in a combined cycle plant or 6 months experience in a combined cycle plant and possession of a Third Class Combined Cycle Combustion Turbine Engineer certificate for a minimum of 1 year.

Reference books:
"Stationary Engineering" 4th Edition by Steingress, Frost & Walker
"Gas Turbine Engineering Handbook" 4th Edition by Boyce

First Class Combined Cycle Combustion Turbine Engineer – 18 months experience in a combined cycle plant or 1 year experience and possession of a Second Class Combined Cycle Combustion Turbine Engineer certificate for a minimum of 1 year.

Reference books:
"Stationary Engineering" 4th Edition by Steingress, Frost & Walker
"Gas Turbine Engineering Handbook" 4th Edition by Boyce

Chief Combined Cycle Combustion Turbine Engineer – 3 years' experience in a combined cycle plant having or 2 years' experience and possession of a First Class Combined Cycle Combustion Turbine Engineer certificate for a minim of 1 year.

"Stationary Engineering", 4th Edition by Steingress, Frost & Walker
"National Board Inspection Code"
ASME Code Section 1 – Rules for the construction of power boilers.
ASME Code Section 6 – Recommended rules for the care and operation of heating boilers.
ASME Code Section 7- Recommended guidelines for the care of power boilers.
"HVAC Water Chillers & Cooling Towers" 2nd Edition by Stanford
"Gas Turbine Engineering Handbook" 4th Edition by Boyce

Simple Cycle Combustion Turbine Certifications

Third Class Simple Cycle Combustion Turbine Engineer – 6 months experience in a combined cycle plant.

Reference books: “Gas Turbine Engineering Handbook” 4th Edition by Boyce

Second Class Simple Cycle Combustion Turbine Engineer – 1 year experience in a simple cycle plant or 6 months experience in a simple cycle plant and possession of a Third Class Simple Cycle Combustion Turbine Engineer certificate for a minimum of 6 months.

Reference books: “Gas Turbine Engineering Handbook” 4th Edition by Boyce

First Class Simple Cycle Combustion Turbine Engineer – 18 months experience in a simple cycle plant or 1 year experience and possession of a Second Class Simple Cycle Combustion Turbine Engineer certificate for a minimum of 1 year.

Reference books: “Gas Turbine Engineering Handbook” 4th Edition by Boyce

Refrigeration Certifications

Third Class Refrigeration Engineer – 6 months experience in a refrigeration or chiller plant with a total aggregate tonnage of 150 tons or more.

Reference books: “HVAC Water Chillers & Cooling Towers” 2nd Edition by Stanford

Second Class Refrigeration Engineer – 1 year experience in a refrigeration or chiller plant with a total aggregate tonnage of 500 tons or more or 6 months experience and possession of a Third Class Refrigeration Engineer certificate for a minimum of 1 year.

Reference books: “HVAC Water Chillers & Cooling Towers” 2nd Edition by Stanford

First Class Refrigeration Engineer – 18 months in a refrigeration or chiller plant with a total aggregate tonnage of 1,000 tons or more or 1 year experience and possession of a Second Class Refrigeration Engineer certificate for a minimum of 1 year.

Reference books: “HVAC Water Chillers & Cooling Towers” 2nd Edition by Stanford

Maintenance Technician Certifications

Third Class Maintenance Technician – 6 months experience in building maintenance in facility of at least 100,000 aggregate building square feet

Reference book: “Industrial Maintenance” 3rd Edition by Green and Gosse

Second Class Maintenance Technician – 1 year experience in building maintenance in a facility of at least 100,000 aggregate building square feet or 6 months experience and possession of a Third Class Maintenance Technician certification.

Reference book: “Industrial Maintenance” 3rd Edition by Green and Gosse

First Class Maintenance Technician – 18 months experience in building maintenance in a facility of at least 250,000 aggregate building square feet or 6 months experience and possession of a Second Class Maintenance Technician certification.

Reference book: “Industrial Maintenance” 3rd Edition by Green and Gosse