

Traction Engine Engineer

Qualifications

Minimum age - 18

Education - Graduate of a Traction Engine School

Experience - Proof of 25 hours of actual traction engine operation or attestation by two (2) currently licensed Traction Engine Engineers to the applicant's experience and competency.

Note: Experience and Education may be waived if the applicant is holding a valid State issued license for operation of traction engines and boilers.

Examination - Written (Oral or Practical when necessary)

Curriculum at the Minimum:

- Basic Math-Science
- Basic Combustion Theory
- Types of Traction Engine Boilers
- Construction of Traction Engine Boilers
- Traction Engine Boiler Maintenance
- Boiler Safety Devices
- Boiler Fittings and Accessories
- Traction Engine Boiler Combustion Air and Flue Gas System
- Traction Engine Boiler Fuels and Fuel Systems
- Traction Engine Feed Water System
- Feed Water Chemistry Control
- Corrective Actions for Low Water Level Conditions
- Traction Engine Safety
- Steam Engine Construction
- Steam Engine Operating Cycle
- Valve Maintenance
- Bearing Maintenance and Lubrication
- Governor Operation and Maintenance
- Clutch Operation and Maintenance
- Steering Gear
- Lining up on the belt