

NO RTEC JOB SPECIFIC SKILLS COMPETENCY

STATIONARY ENGINEER (Alternate title: Power Plant Operator)

DOT: 950.382-026 SVP 7

Job Description: Regulates and monitors stationary engines and mechanical equipment to provide utilities for buildings and industrial processes; *Physical Demands* - Medium lifting, carrying, or moving (up to 50 lbs.); *General Education Development* - R4 M4 L3; *Aptitudes* - Average Learning Ability, Verbal, Numerical, Spatial, Clerical Perception and Manual Dexterity

CORE SKILL COMPETENCIES/INDICATORS:

1. Can demonstrate knowledge of industry procedures for operating and maintaining stationary engines and mechanical equipment, including steam engines, air compressors, generators, turbines, motors, and steam boilers. (R, S, T)
2. Can demonstrate proper techniques involved in operating valves, switches, and gauges on stationary engines and mechanical equipment. (R, S, T)
3. Can demonstrate ability to accurately read meters, gauges, or automatic recording devices, at specified intervals to verify operating conditions. (IN, S)
4. Can demonstrate ability to accurately record data such as temperature of equipment, hours of operation, fuel consumed, temperature or pressure, water levels, flow, analysis of flue gases, voltage load and generator balance. (IN, S)
5. Can demonstrate proper techniques used to adjust manual controls or override automatic controls to bring equipment into recommended or prescribed operating ranges. (R, S, T)
6. Can demonstrate proper techniques used to switch to backup equipment or systems, or to shut down equipment. (R, IN, S, T)
7. Can demonstrate proper procedures used to inspect equipment to detect malfunctions or need for repairs. (IN, S)
8. Can demonstrate ability to accurately record malfunctions of equipment, instruments, or controls on log sheets. (IN, S)
9. Can demonstrate ability to repair or make equipment adjustments/modifications to obtain greater efficiency or reduce pollutants. (R, S, T)
10. Can demonstrate proper technique used to tighten fittings. (R, S, T)
11. Can demonstrate proper technique used to repack bearings. (R, S, T)
12. Can demonstrate proper technique used to replace packing glands. (R, S, T)
13. Can demonstrate proper technique used to replace gaskets. (R, S, T)
14. Can demonstrate proper technique used to replace valves. (R, S, T)
15. Can demonstrate proper technique used to replace recorders. (R, S, T)
16. Can demonstrate proper technique used to replace gauges. (R, S, T)
17. Can demonstrate proper techniques used to clean or replace burners. (R, S, T)
18. Can demonstrate proper technique used to perform titration tests. (R, IN, S, T)
19. Can demonstrate proper technique used to treat water with chemical additives. (R, S, T)
20. Can demonstrate proper techniques used to clean tanks and boiler lines. (R, S, T)
21. Can demonstrate proper technique used to apply lubricants. (R, S, T)
22. Can demonstrate ability to accurately maintain logbooks on operations and maintenance. (R, IN, S, T)
23. Can demonstrate ability to weld and cut parts using basic cutting and welding procedures. (R, S, T)

24. **Can demonstrate ability to work under stress to meet scheduled deadlines. (R, I)**
25. **Can demonstrate knowledge of industry-specific safety standards and emergency procedures. (R, IN, S)**
26. **Can demonstrate ability to perform basic arithmetic operations. (IN)**
27. **Can demonstrate ability to identify and appropriately use handtools and powertools. (R, T)**
28. **Can demonstrate ability to perform a variety of duties, changing from from one task to another of a different nature without loss of efficiency or composure. (R, I, S)**