

WAGE GRADE CAREER PATH

WG 5402

BOILER PLANT OPERATOR/WORKER

This occupation covers nonsupervisory jobs concerned primarily with the operation and operational maintenance of single and multiple fuel water or fire tube boilers and associated auxiliary and pollution control equipment. These boilers operate at various pressures and temperatures in automatic or manual modes to produce steam or high temperature hot water to provide heat for buildings, to operate industrial and institutional facilities and equipment, and to generate electricity.

WG02 - Step
WG05

Part 1 Apprentice/Helper/Trainee; Trade/Less than Journeyman

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| | 1 | Complete New Hire Orientation |
| | 2 | Complete Civilian Training Plan requirements for current position |
| | 3 | Complete task qualifications for current position |
| | 4 | Complete task certifications for current position |
| | 5 | Master simple to common work tasks under supervision |
| | 6 | Maintain successful to above average performance ratings |

WG05 -
WG08

Part 2 Trade/Less than Journeyman

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| | 1 | Continue required on-the-job and formal classroom training required in Civilian Training Plan |
| | 2 | Complete task qualifications for current position |
| | 3 | Complete task certifications for current position |
| | 4 | Master common to complex work tasks. Grade 8 boiler plant workers assist in the operation and operational maintenance of gas, refuse derived fuel, wood, oil, and coal fired power boilers and auxiliary equipment with manual or automatic controls to produce saturated or superheated steam or high temperature hot water. Under the direction of a boiler plant operator, they light off, operate, secure, and maintain power boilers and associated auxiliary and pollution control equipment. They operate dampers, induced and forced draft fans, bottom and fly ash removal equipment, heat exchangers, fuel and air heaters, pumps, fuel pressure control valves, fuel strainers, relief valves, water softeners, and other similar equipment. They regulate fuel feed and water levels and maintain required steam pressure or temperatures. They check flame for correct color and shape and make adjustments for proper combustion. They check feed water regulators, flowmeters, flue gas temperature, various gauges, stack emissions, fuel feed or conveyor equipment, water level indicators, relief and fuel pressure control valves, and safety equipment to determine if boilers are operating within prescribed limits. They change burner tips as required due to different fuels or firing rates, operate soot blowers to clean fireside tube walls, and blow down water columns to verify that there are no false water level indications. They perform a variety of standard chemical tests on boiler and feed water. They also treat waste water prior to discharge. |
| | 5 | Maintain successful to above average performance ratings |

Part 3 Journeyman

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| | 1 | Continue required on-the-job and formal classroom training required in Civilian Training Plan |
| | 2 | Complete task qualifications for current position |
| | 3 | Complete task certifications for current position |
| | 4 | Master common to complex work tasks. At Grade 10, boiler plant operators start, operate, adjust, stop, maintain, and perform various operational repairs on single or multiple fuel power boilers and associated auxiliary and pollution control equipment. Boilers operated at this level are fired by coal, oil, refuse derived fuel (RDF), wood, or a combination of these fuels to produce steam or high temperature hot water required to meet changing load demands. Boilers operated at this level require constant attention to maintain efficiency and control the formation of pollutants. Grade 10 operators maintain efficient combustion levels and ensure compliance with air pollution laws or regulations. Through the use of manual, automatic, or microprocessor controls or control systems, boiler plant operators monitor, adjust, and control all phases of boiler plant operations. |
| | 5 | Provide production support services |
| | 6 | Maintain successful to above average performance ratings |

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