

## MACHINIST

### DESCRIPTION OF WORK

Work in this class involves the operation of machine tools to fabricate or repair a variety of metal parts to precise dimensions. Work is performed on the journeyman level in accordance with standard machine shop practices.

General assignments are received from a foreman, but an employee in this class works with considerable independence in the selection of methods, procedures, and materials and is guided only by plans and specifications or the actual parts to be duplicated. Unprecedented work problems may be referred to supervisor for decision or advice. Work is reviewed upon completion for serviceability and for conformance to specifications through trial runs or actual use.

### EXAMPLES OF DUTIES PERFORMED

Studies specifications and diagrams and measures parts with micrometers and calipers to acquire information incident to setting up a machine tool.

Sets up machine tool, such as lathe, drill press, milling machine, boring mill or shaper, by adjusting chucks, spindles, and cutting tool arm; centers stock and controls depth of cut by hand lever.

During process of machining, with micrometer, caliper and depth gauge, makes necessary measurements to determine accuracy of cut.

Fabricates from rough stock various parts for machines and assemblies.

Fabricates spindles, shafts, bushings, pins, collars, and bolts on machine tools to clearances of .0001 of an inch.

Fuses together metal parts by using electric or oxyacetylene welding torches; shapes stock into desired angles by forging and annealing.

Performs related duties as required.

### RECRUITMENT STANDARDS

#### Knowledges, Skills, and Abilities

Working knowledge of the principles and operation of various machine tools such as lathes, drill presses, shapers, milling machines, boring bars, dividing heads and grinders.

Working knowledge of the properties of common metals and alloys.

Working knowledge of precise measuring scales and the uses of measuring instruments such as vernier, inside and outside calipers, and micrometers.

Ability to read and understand technical diagrams and sketches of complex equipment.

Ability to interpret and carry out instructions.

#### Minimum Education and Experience

Completion of grammar school and three years of progressive experience in the operation of a variety of machine shop equipment in the production of metal parts; or an equivalent combination of education and experience.