

Class Concept

Positions perform journey level work in the operation of machine tools to fabricate or repair a variety of metal parts to precise dimensions. Assignments are received from the Marine Mechanic Supervisor, who may offer guidance in the selection of methods and materials. Work is guided by plans, specifications, or worn part to be replaced, and is reviewed upon completion. Work involves fabrication propeller shafts, rudders, flanges, bushings, pins, sheaves, collars, bolts, and spacers from rough stock. Positions study specifications, diagrams, and sketches; and measures parts with rule, tape, caliper, inside and outside micrometers, or dial indicator to set up machine tool. Positions utilize machine tools, such as lathe, power press, mill, or cutter by adjusting chucks, spindles, and cutting tool arm. Positions may be required to fabricate parts to complete work as prescribed.

Recruitment Standards

Knowledge, Skills, and Abilities

- Working knowledge of the principles, and skill in the operation of various machine tools such as lathes, presses, shapers, cutters, milling machines, and grinders.
- Working knowledge of the properties of common metals and alloys.
- Working knowledge of precise measuring scales and the uses of instruments such as 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

High school or General Educational Development (GED) diploma and three years of progressive experience in the operation of a variety of machine shop equipment in the production of metal parts, preferably in the ship repair or shipbuilding industry; or an equivalent combination of education and experience.