

Class Concept

Work in this class involves the supervision of a group of machinists and apprentice machinists engaged in fabrication, modification, and repair of parts and equipment through the operation of a variety of multi-purpose precision machine tools. Positions instruct machinist and apprentices in the operation of various machine tools commonly found in a well-equipped machine shop. Work also includes the assignment and review of tasks performed by other trades personnel in related repair work. Positions inspect work upon completion to determine that the necessary operations have been performed and that fabricated parts conform to specifications. General instructions are received from a supervisor concerning items to be repaired or fabricated, but an individual in this class is required to independently plan and carry out the technical details of work assignments.

Recruitment Standards

Knowledge, Skills, and Abilities

- Considerable knowledge of the principles and operation of the various machine tools such as lathes, drill presses, shapers, milling machines, boring bars, and grinders.
- Considerable knowledge of the properties of common metals and alloys.
- Considerable knowledge of precise measuring scales and the use of measuring instruments such as Vernier inside and outside calipers, and micrometers.
- Considerable knowledge of sheet metal operation and fabrication.
- Ability to read and understand blueprints, technical diagrams, and sketches of complex equipment.
- Ability to perform various welding techniques.
- Ability to plan, organize, and direct the work of machinists and semi-skilled tradesmen.
- Ability to instruct subordinate personnel in machine shop operations and techniques, and to establish a program of training for apprentices.

Minimum Education and Experience

High school or General Educational Development (GED) diploma and three years of experience in the performance of the full range of journeyman level tasks associated with the machining of a variety of metal parts; or an equivalent combination of education and experience.