

MAJOR FUNCTION

This is skilled work at the journeyman level in the operation and use of machine tools in the fabrication, maintenance, and repair of metal parts, tools, and equipment. Work involves responsibility for carrying through to completion the construction, assembly, installation, and repair of a wide variety of metal parts and tools. A high degree of accuracy and precision is required in performing work according to instructions and specifications. Assignments are received in the form of oral instructions, penciled layouts, blueprints, sketches and by reference to existing, worn or broken parts. Work is performed under general supervision, with the employee developing his own work methods and procedures. Work is subject to inspection while in progress and upon completion for quality and conformity to requirements, and through conversation.

ESSENTIAL AND OTHER IMPORTANT JOB DUTIES**Essential Duties**

Fabricates, maintains, and repairs metal objects through the operation of lathes, shapers, planers, milling machines, drill presses, valve grinders, pipe threaders, and similar equipment, and gauging work carefully by using precision tools. Dismantles, repairs, adjusts and rebuilds a variety of parts for construction equipment, and other equipment, machines and tools. Makes parts, tools, dies and fixtures by cutting and shaping iron, steel, brass, copper or any alloys of metals with machine shop equipment, using blueprints, drawings, rough sketches, or broken parts as a basis. Operates any and all machine shop equipment, including lathes, milling machines, shapers, planers, fringes, drill presses, radial drills, boring bars, key seater, and other metalworking machines to make and repair metal parts for power plant equipment. Fits parts to equipment and makes adjustments. Performs related work as required.

Other Important Duties

Occasionally does hand forging and heat treating of metal parts. Performs general repair work. Performs related work as required.

DESIRABLE QUALIFICATIONS**Knowledge, Abilities and Skills**

Thorough knowledge of the tools, materials, methods and standard practices of the machinist trade. Considerable knowledge of welding, blacksmithing, machine work and related mechanical trades operations. Considerable knowledge of the occupational hazards and safety precautions of the trade. Ability to interpret and work from plans, blueprints, sketches, existing broken or worn out parts, and oral and written instructions. Ability to perform precision work and to make simple mathematical calculations. Skills in the use and care of tools, machinery and equipment of the machinist trade. Good physical condition.

Minimum Training and Experience

Possession of a high school diploma or an equivalent recognized certificate and four years of experience as a machinist; or an equivalent combination of training and experience.

Necessary Special Requirements

For positions assigned to the electric power plants, applicants must be medically certified to wear a respirator and successfully pass a respirator fit test prior to employment.

Incumbents in designated positions assigned to this class may be required to possess a valid Class E State driver's license.

Revised: 05-14-85
02-08-90
08-01-00
02-05-04
02-12-11*