Equipment Technician Series

EQUIPMENT TECHNICIAN III

Class Title	Class Code	Date Estab.	Occup. Index Ref.
Equipment Technician III, Mechanical	7021	7-1-80	P-1
Supervising Equipment Technician III, Mechanical	7051	7-1-80	P-1
Equipment Technician III, Electro-Mechanical	7022	7-1-80	P-1
Supervising Equipment Technician III, Electro-Mechanical	7052	7-1-80	P-1
Equipment Technician III, Electronic	7023	7-1-80	P-1
Supervising Equipment Technician III, Electronic	7053	7-1-80	P-1
Equipment Technician III, Specialized Equipment	7024	7-1-80	P-1
Supervising Equipment Technician III, Specialized Equipment	7054	7-1-80	P-1

DEFINITION:

Under general supervision, an Equipment Technician III designated by major equipment specialty, is responsible for all aspects of assigned equipment design, fabrication and construction for unique, highly technical and prototype equipment or systems. Design work at this level requires independent application of knowledge of equipment design principles and extensive practical experience. Work may involve duties related to instructional support.

Incumbents of positions at this level plan and organize the work of others and are directly responsible for assignment of work,, training, performance, and evaluation and shall be designated as Supervising Equipment Technician III in a designated specialty area. Such positions may involve supervision of lower level equipment technicians, lead over positions in another specialty at the same level or positions in the Instructional Support Series.

DISTINGUISHING CHARACTERISTICS:

This class is distinguished from the next lower class of Equipment Technician II by being involved primarily with the design of prototype and highly unique equipment. Incumbents perform highly skilled repair in maintaining complex and custom equipment, devices, or systems. Design work at this level involves complex equipment or instrumentation to meet special needs and requirements frequently for research or individual projects. Positions at this level not only maintain complex equipment but develop plans, methods, and techniques for analyzing the location and extent of malfunctioning.

Positions in this class perform equipment design, fabrication, repair, maintenance, or installation 50% or more of the time. Some assignments perform additional services related to materials, supplies, and other support functions.

Positions performing equipment repair, maintenance, installation, design or fabrication less than 50% of the time and in combination with other support functions should be allocated to the instructional Support Series.

Specialties relate to the type of equipment being maintained: Mechanical, Electro-Mechanical, Electronic, and Specialized Equipment.

Examples of Typical Activities:

All specialties include the following activities within the assigned equipment specialty area:
Prepares equipment designs from oral directions or from discussion of what functions or processes are needed in relation to student, research, or instruction needs; develops unique equipment of a specialized nature to assist students and faculty; develops experimental models, systems and devices; repairs and maintains the most complex factory-built or prototype equipment; acts as a resource to faculty and students in developing equipment capability for research; develops models to demonstrate theoretical, scientific principles; develops plans, specifications, and construction drawings; acts as a resource to provide advice regarding suitable makes, models, and accessories; adapts complex donated equipment or one-of-a-kind equipment for which there is no manual or resource available to make it viable as instructional equipment.

MINIMUM QUALIFICATIONS:

Knowledges and Abilities:
Comprehensive knowledge of the methods. materials, tools and equipment used in the construction, installation, maintenance. repair and operation of equipment in the area of specialization; thorough knowledge of equipment design theory; knowledge of drafting techniques: thorough knowledge of repair, maintenance, troubleshooting and overhaul.

Ability to apply previous experience and knowledge to the design of new applications; ability to plan, organize, and coordinate the work of technical projects; ability to review and prepare specifications for technical equipment; ability to design, fabricate, and assemble devices; ability to coordinate equipment repair performed by other specialists; ability to analyze equipment problems and determine what repairs are needed; ability to install. replace, repair, and maintain a wide variety of equipment for the area of job assignment; ability to establish and maintain cooperative working relationships; ability to read and write at a level appropriate to the duties of the position; ability to make arithmetic computations where required.

For Supervising Equipment Technician III, all specialties
The ability to train and supervise others.

and

Experience:
Equivalent to three years of progressively responsible journey-level or skilled experience in the maintenance, repair and operation of scientific or technical equipment in the specialty area to which assigned, including one year involving design modifications and fabrication of complex and highly technical equipment.

Equivalent to two years of semi-skilled experience maintaining and repairing scientific or technical equipment or related equipment experience as part of instructional support activities may be substituted for one year of the required experience.

Equivalent to two years of trade school or technical arts training with specialization in the type of equipment repair to which assigned. completion of an apprenticeship program, or completion of a full military specialization in the required type of equipment maintenance and repair may be substituted for one year of the required experience.

and

Special Qualifications:
A Federal Communications Commission license is required for some positions.

Work Week Group: 4A
Premium O/T: No
Shift Differential: No
Employee Category: Non-Academic