

CLASS TITLE:**ELECTRONICS TECHNICIAN**

Class Code: 02300200
Pay Grade: 18A
EO Code: G

CLASS DEFINITION:

GENERAL STATEMENT OF DUTIES: Upon assignment, to construct and/or install, test, service and repair a variety of electronic, electro-mechanical, radiological, audio-visual, pressurized and refrigerated equipment and/or scientific instruments or apparatus used within a laboratory, educational, research, experimental, or civil defense environment, or any other comparable environment, within a state department or agency; to inspect, set-up, operate, calibrate or recalibrate, repair and make operational a variety of testing instruments or apparatus; and to do related work as required.

SUPERVISION RECEIVED: Works under the general supervision of a superior with considerable latitude in the exercise of initiative and independent judgement; work is subject to review upon completion for results obtained and conformance to accepted standards, practices and procedures.

SUPERVISION EXERCISED: As required, may supervise and instruct staff members and/or volunteer and summer student help assigned to assist.

ILLUSTRATIVE EXAMPLES OF WORK PERFORMED:

Upon assignment, to construct and/or install, test, service and repair a variety of electronic, electro-mechanical, radiological, audio-visual, pressurized and refrigerated equipment and/or scientific instruments or apparatus used within a laboratory, educational, research, experimental, or civil defense environment, or any other comparable environment, within a state department or agency and including such equipment, instruments and apparatus as: computers, analyzers, analog to digital converters, gas chromatographs, spectrometers, spectrophotometers, samplers, recorders, refrigerators and freezers, high frequency heating units, tape and video recorders, projectors, radiation survey meters, radiological counting systems, dosimeters, dosimeter chargers, geiger counters, radio broadcasting and receiving sets, television sets, navigational guides, x-ray equipment, electronic control and relay apparatus, inter-communication units, master antenna systems, or other comparable equipment, instruments and apparatus as required.

To assist and work with superiors in making certain that all such equipment, instruments and apparatus are in proper working order at all times and functioning within acceptable standards as required by superiors to accomplish the desired objectives and results.

To inspect, set-up, operate, calibrate or recalibrate, repair and make operational a variety of testing instruments or apparatus such as ohmmeters, voltmeters, bridges, signal generators, high-frequency signal generators, cathode ray oscilloscopes, tube testers, transistor testers, ampmeters, refrigeration service manifolds, gas detectors and load detectors designed to locate defects and to measure current, voltage, frequency and refrigerant through the application of standard testing methods and procedures.

To maintain an adequate inventory of materials and parts as well as manufacturers' manuals and related technical manuals required for the repair and maintenance of such equipment, instruments and apparatus.

To maintain an inventory of all operational and testing equipment, instruments and apparatus within the assigned area of activity to insure the effective use of warranties, regular servicing schedules, and effective operational use and needed repairs.

As required, to instruct staff members and/or volunteers and summer help to assist in the performance of operability checks and inspections of the equipment, instruments and apparatus described above and, as needed, in the installation, testing, service and repair of same.

To do related work as required.

REQUIRED QUALIFICATIONS FOR APPOINTMENT:

KNOWLEDGES, SKILLS AND CAPACITIES: A working knowledge of the principles, practices, methods and techniques required to construct, install, test, service and repair a variety of electronic, electro-mechanical, radiological, audio-visual, pressurized and refrigerated equipment, scientific instruments and apparatus described above; a working knowledge of the principles, practices and techniques involved in basic electronic circuitry and the ability to apply such knowledge in testing, servicing and repairing such above-named equipment, instruments and apparatus; the ability to inspect, set-up, operate, calibrate and repair a variety of testing instruments and apparatus such as those described above; the ability to establish and maintain an inventory of required parts and supplies necessary for repair and maintenance services as well as an inventory of all operational and testing equipment, instruments and apparatus to insure effective warranty use, servicing and repair schedules; the ability to train assigned personnel to assist in operability checks and inspections and in the installation, testing, service and repair of the above-described equipment, instruments and apparatus; and related capacities and abilities.

EDUCATION AND EXPERIENCE:

Education: Such as may have been gained through: graduation from a senior high school and completion of a certified vocational curriculum of courses in electronics, electro-mechanics, mathematics, physical sciences and related subjects in a junior college, technical institute, vocational, trade or military service school; and

Experience: Such as may have been gained through: employment in a position in private industry or in a branch of the armed services involving the installation, testing, servicing and repair of a variety of electronic, electro-mechanical, radiological and/or scientific instruments or apparatus.

Or, any combination of education and experience that shall be substantially equivalent to the above education and experience.

Class Revised: November 13, 1983

Editorial Review: 3/15/2003