

ELECTRONICS DESIGN SPECIALIST

DESCRIPTION: This is highly skilled technical work designing, constructing, modifying and repairing electronic equipment. Incumbents analyze and solve electronic problems or needs of a complex nature involving electrical and electronic equipment; performs related work as assigned.

EXAMPLES OF WORK: (A position may not be assigned all the duties listed, nor do the listed examples include all the duties that may be assigned.)

Designs, lays out and builds various projects; tests equipment; draws prints and write operation manuals for shop designed equipment.

Modifies complex components to increase operating efficiency or for specialized purposes.

Supervises technical aspects of construction of shop designed projects.

Maintains technical library.

Assembles, tests, and modifies electronic equipment prior to usage.

Evaluates maintenance records and recommends upgrading, modification or replacement.

Performs related work as required.

FULL PERFORMANCE KNOWLEDGES, ABILITIES, AND SKILLS REQUIRED: (These may be acquired on the job and are needed to perform the work assigned.)

ENTRY KNOWLEDGES, ABILITIES, AND SKILLS REQUIRED: (Applicants will be screened for possession of these through written, oral, performance, and/or other evaluations.)

Knowledge of: tools, materials, methods and practices of electronic repair work; FCC rules and regulations; improvements and developments in electronics and communications; principles and theory of electricity; component parts of electronic and electro-mechanical devices.

Ability to: demonstrate correct usage of equipment to users and subordinates; construct and modify equipment for initial installation and specialized functions; interpret blueprints and technical sketches; establish work priorities; supervise subordinates and inspect and evaluate their work; layout and construct specialized electronic circuits.

Skill in: the operation and calibration of test equipment.

M08804 - ELECTRONICS DESIGN SPECIALIST (continued)

JOB PREPARATION GUIDELINES: (Entry knowledge, abilities, and/or skills may be acquired through, BUT ARE NOT LIMITED TO, the following course/work and/or experience.)

Any combination of training and/or work experience that will enable the incumbent to possess the required knowledge, skills and abilities. A general qualification guideline is a high school education or equivalent plus five years experience in electronics or graduation from a recognized vocational technical school in electronics plus three years experience in electronics; A Second Class FCC Radio-Telephone Operator's license is required.