

ELECTRONICS SPECIALIST/ AVIATION AIDS

DESCRIPTION: Under immediate supervision, in a training capacity, learns to perform highly skilled and technical work constructing, installing, modifying, and repairing a variety of electronic aids to air navigation; learns to analyze and solve electronic problems of a complex nature involving very complex electronic equipment; performs related work as required.

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.)

Learns to verify the proper operation of a variety of air navigational aids to facilitate safe and efficient use of the state's airways.

Assists with the location of new aids to provide optimum utilization of the facility.

Learns to design, layout and build various specialized projects; draws prints and writes operation manuals for shop designed equipment.

Learns to develop equipment modification procedures for submission to the Federal Aviation Administration for approval.

Learns to analyze flight and ground inspection error curve graphs and utilize the resultant information to perform precision adjustments and station calibrations.

Learns to install equipment to meet FAA specifications.

Learns to verify the proper operation of automated weather observation systems (AWOS).

Learns to install AWOS to meet FAA and National Weather Service (NWS) specifications.

Performs routine scheduled and emergency maintenance on Navigational Aids and AWOS as required.

Maintains technical library.

Assembles, tests and modifies electronic equipment prior to usage.

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 and construction work; FCC rules and regulations; air navigation principals; electronic principals and theory.

Ability to: establish work priorities; layout and construct electronic circuits and systems.

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Skill in: the operation, repair and calibration of test equipment.

JOB PREPARATION GUIDELINES: (Entry knowledge, abilities, and/or skills may be acquired through, BUT ARE NOT LIMITED TO, the following coursework/training 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 is a high school education or equivalent plus five years experience in electronics. Graduation from a recognized vocational technical school in electronics may be substituted for two years experience in electronics. A FCC General Radio Telephone operators license is REQUIRED.

SPECIAL NOTE

Applicants not possessing the FCC license MAY be considered, however the applicant must acquire the license during the probationary period.