

RADIO ENGINEER 1

KIND OF WORK

Radio engineering work assisting in the design, installation and maintenance of a radio transmitting system.

NATURE AND PURPOSE

An employee in this class is responsible for performing professional radio engineering work. He develops extensions of the present radio system including engineering, cost studies and installation inspections; develops new radio communication systems as required; and supervises a maintenance program for the system. Responsibilities include direction of radio operators.

EXAMPLES OF WORK (A position may not include all the work examples given, nor does the list include all that may be assigned.)

Assists in developing new radio networks as the need arises; engineers the project; makes cost studies; and makes installation inspections.

Supervises radio operators and dispatchers.

Inspects and services all base radio stations, relay stations, and mobile units of the highway patrol, highway maintenance, and special aeronautics installations; tests radio frequencies, power output and makes other technical measurements as required by the Federal Communications Commission.

Supervises installation of radio equipment.

Supervises radio stock control records.

Prepares and submits requisitions for the purchase of replacement tubes, parts, test equipment and allied items.

Performs related work as required.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED

Knowledge of:

Considerable knowledge of the principles of electricity as applied to radio systems.

Considerable knowledge of the design, installation, maintenance and operation of AM and FM radio transmitting and receiving equipment.

Considerable knowledge of FCC regulations pertaining to radio transmitting systems.

Skill in:

Skill in the use of tools, instruments and equipment of the trade.

Ability to:

Ability to analyze, modify and improve radio communication designs and systems.

Ability to locate and adjust or repair defects and interferences in transmitting equipment.

LEGAL/LICENSURE REQUIREMENTS

Possession of a first class Federal radio-telephone licensee.

Est.: 10/57
Rev.: 5/65
Ckd.: 11/92

T.C.:
Former Title(s):