

**KERN COUNTY SUPERINTENDENT OF SCHOOLS
APPROVED SEPTEMBER 2003
RANGE: 54.5
TECHNICAL/SPECIALIST SERVICES SERIES
CLASSIFIED
CODE: 7**

**BROADCAST, MICROWAVE AND TELECOMMUNICATIONS
TECHNICIAN I**

DEFINITION

Under general supervision of the Administrator, installs, maintains and repairs microwave, broadcasting, and telecommunication equipment.

EXAMPLES OF DUTIES

Installs and maintains microwave, broadcasting, videoconferencing and telecommunication equipment;
designated as alternate Chief Operator of Kern County Superintendent of Schools transmission facilities;
tunes transmitters to maintain efficient operation;
diagnoses cause of equipment malfunctions;
operates microwave and terrestrial transmission systems
maintains, troubleshoots and repairs television transmitters, microwave links, satellite reception and transmission systems, remote site translator systems, LPTV, ITFS, MATV, and CATV systems, etc., using technical schematics;
maintains television broadcasting equipment and systems in accordance with the Federal Communications Commission television transmission parameters, frequency, bandwidth, modulation, power and FCC regulations;
configures systems, specifies models, installs, evaluates, calibrates and operates equipment, as required;
maintains log of programs transmitted and of adjustments to transmission equipment and frequency checks;
conforms to safety standards as prescribed;
performs other tasks related to the position as assigned.

QUALIFICATIONS

Knowledge of:

Television transmitting, microwave, satellite, translator and video teleconferencing equipment;
ITFS, MATV, and CATV systems;
basic and advanced electronic circuit troubleshooting.

Ability to:

Distinguish color-coded wires;
work in remote and/or isolated areas;
read, interpret and apply FCC, BLM and OSHA rules and regulations;

read and interpret complex schematics;

operate electronic testing equipment;

analyze test results;

judge when to act independently and when to refer situations to supervisors;

plan and organize work;

work in confined areas;

crawl under counters and other closed places;

lift 75 lbs;

work flexible hours or shift and be on call 24 hours per day/ 365 days per year;

withstand heights and perform work safely;

normal hearing range;

reach overhead to work with cables, etc.;

climb ladders and other structures some more than 300 feet high;

work cooperatively with employees, vendors and the public;

recognize and report hazards and apply safe work methods in a variety of environments.

Experience:

Two (2) years experience in the repair and maintenance of television broadcast equipment and an AS degree in Electronic Engineering from an accredited college or university;

or a Bachelors Degree in electronic Engineering from an accredited college or university, plus four (4) years experience in the repair and maintenance of television broadcast equipment.

Education:

High school graduation or other equivalent (i.e. GED, college technical, or trade school transcripts, foreign equivalency, etc);

Licenses and Certificates:

Valid FCC Commercial General Class Radiotelephone Operator's License or valid FCC Restricted Radiotelephone Operator's Permits;

valid Class C California Driver's License, and must be maintained for the duration of assignment;

copy of driving history issues by the Department of Motor Vehicles;

valid FCC Commercial General Class Radiotelephone Operator License preferred;

and Society of Broadcast Engineering Certificate preferred.

Some positions may require proof of privately owned automobile insurance and possess a valid California Motor Vehicle operator's license.

Fingerprint clearance by both the Federal Bureau of Investigation and the California Department of Justice is a condition of appointment after all other required job conditions have been met.

This position has a probationary period of six months or 130 days, whichever is longer.

Required documents at time of application:

High school graduation or other equivalent (i.e., GED, college technical, or trade school transcript, foreign equivalency, etc.);

operator's license, if applicable;

operator's permit, if applicable;

copy of driving history issued by the Department of Motor Vehicles;

college transcripts, if applicable;

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