

PROJECTOR TECHNICIAN

DEFINITION

Adjusts, repairs, and rebuilds the mechanical and electronic components of a variety of motion-picture and slide projectors and related equipment.

TYPICAL DUTIES

Repairs, rebuilds, and adjusts a large variety of slide, film-strip, opaque, overhead, and motion-picture projectors and teaching machines with electronic scoring mechanisms.
Diagnoses defects in projector and sound-reproduction systems.
Repairs projector motors, replacing armatures and resurfacing commutators and governors.
Replaces electronic components of projectors, including transistors, tubes, transformers, condensers, and resistors.
Fabricates and repairs metal parts and tools by the use of machine tools, including a lathe, drill press, and bench grinder.
Repairs and adjusts the frames and tripod supports of projection screens.
Cleans and adjusts condenser, objective, wide-angle and sound-track scanning lenses.
Inspects newly purchased projectors for compliance with specifications.
Inspects projectors to be replaced and reports on condition and cost of repair.
Inspects and evaluates student body equipment to be transferred to the District.
Advises school personnel on the operation and care of projection equipment.
Keeps records and writes orders for materials used.
Performs related duties as assigned.

DISTINGUISHING CHARACTERISTICS AMONG RELATED CLASSES

A Projector Technician services, adjusts, and rebuilds a variety of motionpicture and slide projectors and related equipment in a shop and in schools.

A Senior Projector Technician assists in planning and supervising the servicing, adjustment, and repair of a variety of motion-picture and slide projectors and related equipment in a shop and in schools, and performs skilled repair work.

SUPERVISION

General supervision is received from a Senior Projector Technician. Immediate supervision may be exercised over Maintenance Workers.

CLASS QUALIFICATIONS

Knowledge of:

Methods, materials, and tools used in the repair, maintenance, and adjustment of standard models of a variety of sound motion-picture projectors
Analog and digital sound-amplification circuits and equipment

Electronic test equipment
Safety procedures relative to the repair of electrical and electronic equipment

Ability to:

Use a variety of hand tools and precision measuring tools required to repair and maintain sound motion-picture projectors
Interpret schematic diagrams
Use volt-ohm meters, tube testers, oscilloscopes, audio-signal generators, strobe units, and other electronic test equipment
Operate a bench lathe
Work effectively with school personnel

Physical Abilities:

Visual acuity to read schematics
Manual dexterity to use small hand tools
Strength to lift equipment weighing up to 50 pounds

ENTRANCE QUALIFICATIONS

Education:

Completion of courses in the fundamentals of electronics and projector repair at a recognized trade school or college is desirable.

Experience:

Two years of journeyman-level experience in the repair and maintenance of sound motion-picture projectors, including repair of both mechanical and electronic components. Experience in the repair and maintenance of other kinds of electronic equipment may be substituted for up to one year of the required experience.

Special:

A valid California Driver License.
Use of an automobile.