

Classification and Qualification



STANDARDS

The California State University System

Broadcast Engineer

Class Codes: 0850 - 0852

Date Established: 12/01/00

OVERVIEW:

The Broadcast Engineer classification is designed for positions responsible for the design, planning, operation and maintenance of television and radio systems and broadcasting facilities.

ENTRY QUALIFICATIONS:

- Entry to this classification requires equivalent to three years of progressively responsible experience as an audiovisual engineer, including all phases of operation and maintenance of television facilities and broadcast studios. The necessary background to perform this work is normally attained through a college degree program in a related field or a combination of technical training and experience.

In addition, incumbents may be required to obtain a general Radio/Television license and/or a certification from the Society of Broadcast Engineers.

Typical nature of work assignments:

Performance of the full range of work in coordinating, operating and maintaining television and radio production and broadcast facilities.

Work involves operating and maintaining multi-camera systems, television engineering equipment, audio and video equipment, media/video servers, and videographic/editing equipment, and providing engineering support for satellite teleconferencing, and distance learning classes. Some functions involve computer set-ups for broadcast and/or audio-visual systems.

Overseeing television production and broadcast facilities including: space-planning; ordering equipment, components and supplies; and installing equipment and wiring.

Technical work is performed independently under general direction. Uses initiative, judgment and discretion in carrying out responsibilities for production and broadcast facilities.

May train and coordinate student assistants.

Lead work direction may also be provided to less senior technical support staff.

Typical knowledge and skill requirements:

Comprehensive knowledge of the practices, methods and trends in television and radio engineering, including the fields of frequency allocation, electromagnetic wave propagation, and radio signal strength measurements and tolerances.

Comprehensive knowledge of federal communication rules and regulations.

Comprehensive knowledge of digital and analogue electronics theory and troubleshooting.

Comprehensive knowledge of audio/visual systems. A working knowledge of cable, fiber and microwave networks and satellite systems including the underlying theories and principles.

Ability to use applicable computerized systems in television production and broadcasting and webcasting, including video server technology.

Ability to plan, layout, operate and maintain television and radio broadcasting facilities.

Ability to interpret and apply provisions of applicable state and federal communications legislation.

Ability to train, instruct and provide direction to student assistants.

Ability to direct activity of other technical staff.