

Iowa Department of Administrative Services – Human Resources Enterprise  
Job Classification Description

## Studio Engineer

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### Definition

Performs routine technical duties in the operation, monitoring, diagnosis, and basic repair of broadcast and production systems at the Network Operations Center (NOC) for Iowa PBS, with specialization in audio, video, IP-based, digital, and computer-based engineering principals; performs related work as required.

*The work examples and competencies listed below are for illustrative purposes only and not intended to be the primary basis for position classification decisions.*

### Work Examples

Operates, diagnoses, and makes minor repairs/adjustments on electronic and electrical equipment associated with the production, editing, archiving, and broadcasting of educational radio/television programs and satellite up/down link equipment.

Installs/integrates new equipment at NOC associated with the production, editing, and broadcasting of educational radio/television programs.

Verifies compliance with Federal Communications Commission (FCC) and Federal Aviation Administration (FAA) regulations applicable to the NOC facilities and works with service providers.

Maintains inventory and storage including the purchase of spare parts and supplies for NOC broadcast facilities.

Responsible for the general cleanliness and upkeep of NOC assigned work areas and timely completion of administrative duties (e.g. maintenance requests, purchase requisitions, maintenance reports, etc.).

### Competencies Required

#### Knowledge:

- Communications and Media – Media production, communication, and dissemination techniques and methods. This includes alternative ways to inform and entertain via written, oral, and visual media.
- Computers and Electronics – Circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.
- English Language – Structure and content of the English language including the meaning and spelling of words, and rules of composition and grammar.
- Mathematics – Arithmetic, algebra, geometry, calculus, statistics, and their applications.
- Mechanical – Machines and tools, including their designs, uses, repair, and maintenance.
- Telecommunications – Transmission, broadcasting, switching, control, and operation of telecommunications systems.

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**Abilities:**

- Control Precision – Quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.
- Inductive Reasoning – Combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).
- Information Ordering – Arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).
- Speech Clarity – Speak clearly so others can understand you.
- Speech Recognition – Identify and understand the speech of another person.
- Written Comprehension – Read and understand information and ideas presented in writing.
- Written Expression – Communicate information and ideas in writing so others will understand.

**Skills:**

- Active Learning – Understanding the implications of new information for both current and future problem-solving and decision-making.
- Equipment Maintenance – Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.
- Equipment Selection – Determining the kind of tools and equipment needed to do a job.
- Installation – Installing equipment, machines, wiring, or programs to meet specifications.
- Mathematics – Using mathematics to solve problems.
- Operation and Control – Controlling operations of equipment or systems.
- Operations Monitoring – Watching gauges, dials, or other indicators to make sure a machine is working properly.
- Repairing – Repairing machines or systems using the needed tools.
- Service Orientation – Actively looking for ways to help people.
- Speaking – Talking to others to convey information effectively.
- Technology Design – Generating or adapting equipment and technology to serve user needs.
- Troubleshooting – Determining causes of operating errors and deciding what to do about it.
- Writing – Communicating effectively in writing as appropriate for the needs of the audience.

**Minimum Qualification Requirements**

Applicants must meet at least one of the following minimum requirements to qualify for positions in this job classification:

- 1) Two years of full-time work experience in electronic technology, or closely related field.
- 2) A total of two years of education and/or full-time experience operating, maintaining, or repairing complex electronic equipment in a radio or television transmitter/translator facility or network studio, where thirty semester hours of accredited college or university coursework in electronic technology, or closely related field equals one year of full-time experience.

- 3) Graduation from an accredited college or university with an associate's degree in electronic technology or a closely-related field.
- 4) All of the following (a and b):
  - a. One year of full-time work experience in operating, maintaining, or repairing complex electronic equipment in a radio or television transmitter/translator facility or network studio; and
  - b. Possession of a certificate in electronic technology or a closely-related field from a recognized technical, military, business, college, or university certificate program.

*Effective date: 01/26 KC*