

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES ▼
HUMAN RESOURCES ENTERPRISE
TRANSMITTER ENGINEER

DEFINITION

Performs routine duties required in operating, diagnosing, repairing, and maintaining facilities and electronic equipment for Iowa Public Television at network transmitter/translator sites, with specialization in audio, video, digital, remote control, and computer-based engineering at those sites; performs related work as required.

The Work Examples and Competencies listed 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 transmitting, electronic, and electrical equipment associated with the production and broadcasting of educational radio/television programs.

Coordinates schedules of service providers at transmitter/translator sites.

Installs/integrates new equipment at transmitter/translator sites associated with the production and broadcasting of educational radio/television programs.

Verifies day-to-day compliance with Federal Communications Commission (FCC) and Federal Aviation Administration (FAA) regulations applicable to transmitter/translator facilities; maintains required records for the FCC and FAA.

Diagnoses and repairs building mechanicals (e.g., HVAC, plumbing, transmitter-cooling system, electrical and pneumatic controls, polyphase motors, etc.).

Maintains inventory and purchases spare parts/supplies for operation of transmitter/translator facilities.

Responsible for the general cleanliness and upkeep of transmitter/translator sites and timely completion of paperwork necessary for normal facility operations (e.g., vehicle reports, purchase requisitions, petty cash reports, etc.).

Assists other transmitter engineers when necessary.

COMPETENCIES REQUIRED

Knowledge of HVAC systems.

Knowledge of RF circuits and systems.

Knowledge of liquid cooling systems as they apply to transmission systems.

Knowledge of transmitter/translator facility safety including OSHA, non-ionizing radio frequency radiation (RFR), etc.

Knowledge of computer systems, methods, and techniques.

Knowledge of FCC and FAA rules and regulations.

Knowledge of principles of electronics.

Knowledge of techniques of repairing electronic equipment.

Knowledge of types of equipment used in the production and transmission of radio/television programs.

Ability to diagnose, operate, and repair complex electronic equipment.

Ability to assume responsibility in the absence of a supervisor.

Displays high standards of ethical conduct. Exhibits honesty and integrity. Refrains from theft-related, dishonest or unethical behavior.

Works and communicates with internal and external clients and customers to meet their needs in a polite, courteous, and cooperative manner. Committed to quality service.

Displays a high level of initiative, effort, and commitment towards completing assignments efficiently. Works with minimal supervision. Demonstrates responsible behavior and attention to detail.

Responds appropriately to supervision. Follows policy and cooperates with supervisors.

Aligns behavior with the needs, priorities, and goals of the organization.

Encourages and facilitates cooperation, pride, trust, and group identity. Fosters commitment and team spirit.

Expresses information to individuals or groups effectively, taking into account the audience and nature of the information. Listens to others and responds appropriately.

EDUCATION, EXPERIENCE, AND SPECIAL REQUIREMENTS

Graduation from an accredited two-year college or technical school with an associate's degree in electronic technology or closely related field;

OR

possession of a certificate in electronic technology, or closely related field, from a recognized technical, military, business, area school, junior college, or university, and one year of full-time experience operating, maintaining, or repairing complex electronic equipment in a radio or television transmitter/translator facility or network studio;

OR

an equivalent combination of experience and education substituting one year of the required experience (30 semester hours or one year) for each year of the required education.

NOTE:

Must possess a valid driver's license.

NOTE:

Positions in this class are exempt from the screening and referral requirements of the Iowa Department of Administrative Services – Human Resources Enterprise. Apply directly to the employing agency.

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Effective Date: 9/07 DK