

IOWA DEPARTMENT OF ADMINISTRATIVE SERVICES ▼  
HUMAN RESOURCES ENTERPRISE

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# RADIOLOGICAL TECHNOLOGIST 1

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## DEFINITION

Performs technical work in conducting and processing radiographs and electrocardiographs; 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

Performs routine and non-involved radiographic examinations.

Positions patients and adjusts the radiographic equipment for prescribed film appearance; selects and adjusts immobilization devices and other accessories; selects proper size of film and inserts film identification markers.

Uses calipers and determines proper X-ray voltage characteristics by setting the appropriate voltage circuits.

Prepares and administers barium or other solutions and may assist a physician in the preparation and injection of intravenous substances.

Assists radiologist in fluoroscopic examinations by preparing and positioning patients, adjusting controls and administering contrast materials and producing films.

Utilizes and operates mobile X-ray equipment for bedside examinations.

Prepares X-ray development solutions from chemicals in accordance with prescribed standards.

Performs darkroom maintenance and reports need for equipment repairs as required.

Maintains necessary files and records of diagnostic examinations performed.

Conducts electrocardiographic examinations as requested.

## COMPETENCIES REQUIRED

Knowledge of the operation and storage of X-ray equipment and apparatus.

Knowledge of photographic principles including exposures, processing of surface and visceral anatomy.

Knowledge of radiation safety procedures and measures.

Knowledge of elementary physics and electricity.

Knowledge of medical terminology as related to radiological work.

Knowledge of how to properly position patients.

Knowledge of the recent literature and developments in radiological techniques.

Knowledge of electrocardiographic examination procedures and principles.

Ability to work with precision, utilizing dexterity in making fine, coordinated movements.

Ability to perform with accuracy and efficiency during periods of pressure and stress.

Ability to meet customer needs in a consistently helpful and courteous manner.

Ability to work cooperatively with others as part of a team.

Ability to apply personal work attitudes such as honesty, responsibility and trustworthiness required to be a productive employee.

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. Makes an effort to follow policy and cooperate 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**

Possession of a current certificate to practice diagnostic radiography as issued by the Iowa Department of Public Health which indicates fulfillment of the training requirements for a "general diagnostic radiographer."\*

#### **NOTE:**

\* Minimum training standards for general diagnostic radiographers as issued by the Iowa Department of Public Health are published in 641-42.1(136 C) of the Iowa Administrative Code.

Effective Date:     2/98     GR