

**RADIOLOGICAL TECHNOLOGIST 2**

**Nature of Work:** Under general supervision performs advanced level work by preparing and operating radiographic equipment utilized to take general radiographs and fluoroscopic and specialized procedures such as C.A.T. scans, ultrasounds, and mammographies. Maintains equipment, supplies, patient records and reports. Reads and follows instructions from requisitions concerning the necessary radiological examination to be performed. Explains exam procedures to patients to insure their cooperation and to allay their anxiety about the exam. Follows regulated methods and procedures in order to achieve high quality radiographs and to insure the safety of the patient. Develops radiographs and checks for image clarity. Performs follow-up if necessary. Distributes radiographs to appropriate medical staff. May be responsible for scheduling and/or supervision and training of subordinates. Will be required to cover on-call as needed. Performs related work as required.

**Distinguishing Characteristics:** This is the advanced level in the series and in addition to general procedures, is assigned the responsibility of specialized procedures such as C.A.T. scans, ultrasounds and mammographies. Additionally, lead work or supervision may be assigned at this level.

**Examples of Work**

- Performs mammography which includes obtaining patient history, positioning patient for routine and specialized views of the breast, selecting the proper technical factors to obtain the best image possible. Assist radiologist or surgeon in performing needle biopsy. Processes film, cleans and reloads cassettes. Reviews and compares films with previous mammogram. Reviews the films and patient history with radiologist. Obtains additional specialized views if necessary.
- Operates C.A.T. Scanner which includes: Operates a computer and selects the appropriate factors for the suggested exam. Explains procedure to patient and obtains necessary authorization before performing the scan. Assists patient in positioning for appropriate pre-selection anatomy scans of the brain, chest, abdomen, pelvis, spine and/or extremities. Responsible for obtaining additional slices if a questionable area is seen on any of these exams. Measures and enlarges any abnormal area seen.
- Performs CT pelvimetry which includes positioning the patient. Obtains the necessary slices and measurements. Reviews films with radiologist.

**RADIOLOGICAL TECHNOLOGIST 2 (CONT'D)****Examples of Work (cont'd)**

- Performs CT guided needle biopsy, aspiration and localization. This includes working with the surgeon, radiologist and/or team to prepare the patient. Performs the actual scan.
- Performs the specialized modality of ultrasound. The technologist must have knowledge of the physics of the machine and anatomy of the patient.
- Takes x-rays when ordered by physicians, explaining procedures to patient, positioning patients anatomically for exam, selects technical factors on machine, insures proper and accurate exposures to patient and provides radiation protection to patient as well as technologist. Using appropriate markers on all radiographs.
- Develops radiographs in darkroom and is responsible for the general over-all maintenance of darkroom. Keeps cassettes and screens clean and free of artifacts for good quality radiographs.
- Performs fluoroscopic exams and prepares room and equipment for exam. Performs exams utilizing iodinated or water-based contrast media and being prepared to handle any emergency situations involving allergic reactions.
- Performs tomographic procedures and the ability to assemble equipment for such procedures.
- Performs portable exams whenever necessary in the emergency room, intensive care unit, nursery, medical/surgical unit and the operating room.
- Responsible for daily performance of x-ray equipment and overall cleanliness of work area and to stock rooms with necessary supplies.
- Responsible for training entry level employees.
- Schedules radiological procedures with patients. Explains special preparations to patients and medical personnel.
- Prepares radiographs for radiologist interpretation.

**Knowledge, Skills and Abilities**

- Knowledge of specialized equipment utilized in specialized procedures, i.e., knowledge of CT video film recorder which includes determining the optimal program parameters, entering exposure programs. Loading and unloading film, recording images on film and also troubleshooting and performing photo test to ensure optimal images for radiologist to interpret.

**RADIOLOGICAL TECHNOLOGIST 2 (CONT'D)****Knowledge, Skills and Abilities (cont'd)**

Knowledge of specialized equipment utilized in specialized modality of ultrasound. Possess the ability to interpret images on the ultrasound monitor. Possess some computer knowledge, ability to correctly position patients, ultrasound physics knowledge necessary, ability to determine type and size probe needed for particular body part.

Knowledge of standard techniques utilized in the operation of radiographic equipment.

Knowledge of the methods and techniques in the processing of radiographs.

Knowledge of regulated safety measures and procedures.

Knowledge of the human skeletal system, anatomy, and the proper positioning of patients to obtain optimal results.

Ability to carry out oral and written instructions from a physician.

Ability to effectively communicate with patients in order to gain their confidence and cooperation.

Ability to maintain proper record and reports.

**Minimum Qualifications**

**Training:** License or temporary permit to practice radiological technology, issued by the Board of Examiners for Radiologic Technology.

**Experience:** Two years of full-time or equivalent part-time paid experience as a radiological technologist.

**Note:** Preference may be shown to those applicants who are **ARRT** registered or registry eligible.

Established: 10/19/95  
Revised: 03/24/03  
Effective: 03/24/03