

X-RAY TECHNICIAN III

DESCRIPTION OF WORK

This is supervisory work in the operation of x-ray equipment or work of advanced technical skill in the application of special Radiologic techniques in neurology, cardiac catheterization, or vascular surgical procedures.

Employees supervise a small radiology department in a State institution with responsibility for taking and developing chest, orthopedic and general x-rays for diagnostic and screening purposes; or work as an assistant supervisor or lead worker in a larger department. At the North Carolina Memorial Hospital employees are responsible for the application of special techniques in making radiographs involving the nervous system, circulatory system, heart, or brain. Employees supervise the operation of one or more mobile x-ray units in conducting mass surveys in a community for tuberculosis, cancer, or other health hazards or in industries characterized by a large incidence of respiratory health hazards. Work of this class is performed independently without technical supervision and is evaluated by physicians for quality of films produced and by x-ray supervisors or medical directors for adequate production standards.

EXAMPLES OF DUTIES PERFORMED

Participates in the performance of special x-ray examinations involving the nervous system, circulatory system, heart or brain, and the injection of a contrast media; duties include positioning and preparation of patients, assisting in the administration of contrast media and performing x-ray techniques.

Supervises and instructs subordinate technicians in taking and developing radiograph for diagnostic and screening purposes and in the transporting and setting up of mobile x-ray units; or assists supervisor with scheduling, supervision and administrative duties and supervises work area in the absence of the supervisor.

Supervises and participates in the preparation of patients and the operation of x-ray equipment to secure desired radiographs of chest, extremities, skull, jaw, face sinuses, spine, pelvis, gastro-intestinal tract, gall bladder, urinary tract and pregnancies assists physicians with fluoroscopy.

Develops and processes all types of x-ray film; develops techniques for new procedures and modifies existing technique charts as required.

Sets up and tabulates laboratory procedures such as scintiscans, RAI uptakes, renograms, blood volumes, trioleatope and aleotape absorption studies, schooling test, RBC mass, RBC survival and liver spleen ratio.

Schedules chest surveys with officials of the "dusty trade" companies and local health department officials.

Requisitions all supplies used in the special area of assignment; maintains adequate records involving purchases, equipment repair, patient care and procedures.

Performs related duties as required.

RECRUITMENT STANDARDS

Thorough knowledge of the methods, techniques and operating principles involved in the operation of x-ray equipment.

Thorough knowledge of the methods and techniques used in the processing of x-ray film and plates.

Considerable knowledge of human anatomy and the proper positioning of patients to secure desired radiographs.

Considerable knowledge of safety procedures employed with radiation hazards.

Considerable knowledge of medical problems encountered and the ability to give first aid and handle emergency situations.

Ability to supervise and train subordinate technicians and student technicians.

Ability to gain the confidence and cooperation of patients.

Minimum Training and Experience

Graduation from high school supplemented by a course of training in x-ray technology and two years of experience in the operation of x-ray equipment; or an equivalent combination of training and experience.