

SENIOR LABORATORY TECHNICIAN (I-INVASIVE CARDIOLOGY)

DISTINGUISHING FEATURES OF THE CLASS: Under general supervision, an incumbent of this class performs special procedures related to cardiological testing to provide medical specialists with data to diagnose and treat heart disease and disorders using highly sophisticated equipment in order to monitor the movement, sound and activity of the heart during cardiac catheterization procedures. This includes assisting physicians during procedures and performing and interpreting various cardiac measurements including: blood gases, EKG's, cardiac outputs, hemodynamic tracings, blood pressure, etc. This class is subject to shift assignment and on-call duty to handle emergency situations. Does related work as required.

EXAMPLES OF WORK: (Illustrative Only)

Monitors adult and pediatric patients undergoing cardiac catheterization, including routine and emergency angioplasties, neonatal and pediatric emergencies;

Maintains, troubleshoots and sets up all equipment utilized in the cardiac catheterization lab;

Performs blood gas analyses during procedures;

Records and interprets EKG's;

Assists physicians in the performance of cardiac outputs when indicated;

Monitors patient's cardiac rhythms during procedures;

Analyzes hemodynamic tracings obtained during cardiac catheterization in selected patients;

Assists physicians during procedures when indicated;

Sets up sterile tables when indicated;

Performs calculations and recordings of injection fractions;

Attends meetings, conferences, in-service training, and seminars as required.

REQUIRED KNOWLEDGE, SKILLS, ABILITIES AND ATTRIBUTES: Knowledge of cardiac anatomy and physiology; knowledge of human physiology; knowledge of modern techniques and procedures used in all phases of cardiac catheterization; knowledge of cardiovascular diseases and pathophysiology; knowledge of fundamental mathematics; knowledge of basic asepsis and sterile techniques; skill in the use of complex mechanical and electronic laboratory equipment; skill in diagnostic techniques and patient assessment; ability to understand, follow and convey complex technical instruction; ability to understand basic principles involved in all cardiac functions; ability to perform precise laboratory measurements; ability to operate and maintain delicate equipment; ability to analyze and interpret hemodynamic data; accuracy, thoroughness; dependability; physical condition commensurate with the demands of the position.

MINIMUM ACCEPTABLE TRAINING AND EXPERIENCE: High school or equivalency diploma and either: (a) four years of experience in a medical, hospital or health care facility involving patient care related duties, two years of which must have included either the performance of EKG's, stress tests and halter monitoring, or the performance of special procedures related to cardiological testing to monitor the movement, sound and activity of the heart, such as blood gases, EKG's, cardiac outputs, blood pressure, hemodynamic tracings, etc.; or (b) satisfactory completion of 60 credits* in a patient care related field and two years of experience as described in (a), one of which must have included the specialized experience; or (c) a satisfactory equivalent combination of the foregoing training and experience.

SUBSTITUTION: Possession of the Registered Cardiovascular Technologist credential, RCVT, with a specialty in invasive technology, may be substituted for one year of the specialized experience.

*SPECIAL NOTE: Education beyond the secondary level must be from an institution recognized or accredited by the Board of Regents of the New York State Education Department as a post-secondary, degree-granting institution.