



Provincial Job Description

TITLE:
(443) Cardiac Rhythm Device Technologist

PAY BAND:
17

FOR FACILITY USE:

SUMMARY OF DUTIES:

Performs a variety of diagnostic procedures to assist physicians in the diagnosis of electrophysiological and mechanical function of the heart and with the implantation and follow up of cardiac devices.

QUALIFICATIONS:

- ◆ Cardiology Technology diploma
- ◆ Cardiac Rhythm Device Technology Advanced certificate
 - ◆ Certification with Canadian Society of Cardiology Technologists
 - ◆ Certification with International Board of Heart Rhythm Examiners (IBHRE)
 - ◆ Registration with Saskatchewan Cardiology Technologists Association

KNOWLEDGE, SKILLS & ABILITIES:

- ◆ Basic computer skills
- ◆ Interpersonal skills
- ◆ Organizational skills
- ◆ Communication skills
- ◆ Analytical skills
- ◆ Ability to work independently

EXPERIENCE:

- ◆ **Previous:** Twenty-four (24) months previous experience in recent clinical practice in the area of Cardiology/Cardiovascular/Cardiac Sciences with direct patient care experience (pre-requisite for entry into Cardiac Rhythm Device Technology Advanced certificate).

KEY ACTIVITIES:

A. Diagnostic / Cardiac Device Procedures

- ◆ Prepares and assesses patient (e.g., identification, consent, medical/lifestyle history, instruction of procedure).
- ◆ Performs a variety of diagnostic procedures (e.g., ambulatory monitoring, electrocardiograms (ECG), exercise tolerance test, pacemaker analysis/reprogramming).
- ◆ Evaluates lead placement using Programmable System Analyzer (PSA) during device implantation and troubleshoots.
- ◆ Monitors patient during and following procedures (e.g., ECG, blood pressure, comfort level, lead malfunctions, stress testing).
- ◆ Uses Tran-telephonic monitoring to remotely evaluate battery status, lead integrity and diagnostic data.
- ◆ Analyzes test results; identifying abnormal/unexpected values and alerts physician as appropriate.
- ◆ Prepares, organizes, processes and reports test results.

B. Cardiac Device Assessment and Programming

- ◆ Performs sensing and capture threshold tests in atrium or ventricle(s).
- ◆ Analyzes diagnostics and real time (electrograms) telemetry.
- ◆ Verifies appropriate pacemaker/Implantable Cardioverter Defibrillator (ICD)/Cardiac Resynchronization Therapy (CRT) function and optimizes settings according to the patient's lifestyle and hemodynamics requirements.
- ◆ Assists with invasive/interventional procedures (e.g., defibrillation thresholds, cardioversion, overdrive atrial or ventricular pacing).
- ◆ Manages pacing systems that are subject to alerts, advisories and recalls according to the Heart Rhythms Society (HRS).
- ◆ Maintains, calibrates and troubleshoots diagnostic pacemaker equipment (e.g., resolves pacemaker/ICD issues).
- ◆ Documents final setting and records information in database.

C. Quality Assurance / Quality Control

- ◆ Participates in Quality Assurance/Quality Control programs as required by local protocols and government regulations.
- ◆ Cleans, maintains and troubleshoots equipment according to established standards.

D. Patient Education / Research / Teaching

- ◆ Provides pre-operative teaching for pacemaker and ICD patients.
- ◆ Provides verbal and written information regarding post-operative care (e.g., signs and symptoms associated with pacemaker/ICD malfunction).
- ◆ Assures patients have an appropriate post-discharge follow-up.
- ◆ Instructs and supervises “hands on” programming for cardiology fellows.
- ◆ Provides on-going education regarding function of pacemakers and ICD to other health care professionals (e.g., RN’s, LPN’s, medical students, interns, Physiotherapy students, Kinesiology students).
- ◆ Assists with research protocols, statistics and outcome management.
- ◆ Instructs patients on remote monitoring equipment.

E. Related Key Work Activities

- ◆ Ensures "crash carts" are stocked appropriately.
- ◆ Performs computer work (e.g., data entry, back-up).
- ◆ Provides reception/clerical duties (e.g., telephone, faxing, photocopying, booking appointments).
- ◆ Prepares, communicates and files test results and reports.
- ◆ Prepares statistical reports.
- ◆ Maintains inventory.
- ◆ Disposes of biohazardous waste, as per departmental procedures and policies.

The above statements reflect the general details considered necessary to describe the principal functions of the job and shall not be construed as a detailed description of all related work assignments that may be inherent to the job.

Validating Signatures:

CUPE:

SEIU:

SGEU:

SAHO:

Date: November 16, 2021