



Provincial Job Description

TITLE:
**(443) Cardiology Technologist
Pacemaker Clinic**

PAY BAND:
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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 in the implantation and follow up of cardiac devices.

QUALIFICATIONS:

- ◆ **Cardiology Technology diploma**
- ◆ **Pacemaker Technology Advanced Specialty certificate**
 - ◆ **Certification with Canadian Society of Cardiology Technologists**
 - ◆ **Certification with International Board of Heart Rhythm Examiners (IBHRE)**

KNOWLEDGE, SKILLS & ABILITIES:

- ◆ **Basic computer skills**
- ◆ **Interpersonal, organizational and 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 Pacemaker Technology Advanced Specialty).**

KEY ACTIVITIES:

A. Diagnostic / Pacemaker 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).
- ◆ Analyzes test results; identifying abnormal/unexpected values and alerts physician as appropriate.
- ◆ Prepares, organizes, processes and reports test results.

B. 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.**

E. Related Key Work Activities

- ◆ **Uses Tran-telephonic monitoring to remotely evaluate battery status, lead integrity and diagnostic data.**
- ◆ **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, where required by the job.**
- ◆ **Maintains inventory, orders supplies, where required by the job.**
- ◆ **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: December 7, 2011