



UNION JOB DESCRIPTION

JD5019

JOB TITLE:	Cardiovascular Technologist	JOB DESCRIPTION NO.:	5019
CLASSIFICATION:	Cardiovascular Technologist P2A	GRID/PAY LEVEL:	H-B-P2A
COLLECTIVE AGREEMENT:	Health Science Professionals	HSCIS NO.:	63102
UNION:	HSA	JOB/CLASS CODE:	63102
PROGRAM/DEPARTMENT:	Heart Health Cath Lab/ EP Lab	BENCHMARKS (If Applicable):	
REPORTING TO:	Supervisor Cardiovascular Technologist		
FACILITY/SITE:	RJH/VGH/NRGH/CRH		

JOB SUMMARY:

In accordance with the Vision, Purpose, and Values, and strategic direction of the Vancouver Island Health Authority (Island Health) patient and staff safety is a priority and a responsibility shared by everyone; as such, the requirement to continuously improve quality and safety is inherent in all aspects of this position.

Reporting to the Supervisor, Cardiovascular Technologist (CVT), functions as a member of the Cardiac Catheterizations Electrophysiology and Device Implant teams. In collaboration with a Cardiologist, who specialty involves three aspects of cardiac care: Cardiac Cath Lab, Electrophysiology Lab and Device implantation the CVT supports, manages and reports technical monitoring prior, during and post care. The CVT provides technical assistance/support to the programs prior, during and post care.

TYPICAL DUTIES AND RESPONSIBILITIES:

Three levels of knowledge is required:

Level 1 Heart Cath Lab Role (HCL)

1. Sets up and calibrates and operates physiological data monitoring equipment which includes:
 - Hemodynamic monitoring
 - electrocardiogram (ECG),
 - pulse oximetry monitoring
 - blood gas analyzers.
2. Recognizes and alerts physician to change in patient condition through hemodynamic monitoring.
3. Monitors blood gases and activating prothrombin clotting times.
4. Documents data including:
 - valve flow/area,
 - gradients,
 - shunt determinations,
 - cardiac output, cardiac index,

- oxygen consumption,
- pulmonary vascular resistance,
- ejection fractions and other related data.

5. Operates specialized equipment such as excimer laser, OCT, IVUS, Rotoblator, pressure wire and set up of Intra-Aortic Balloon pump.

6. Documentation of clinical procedures within programs, such as Heart IS., CVI Source, and electronic health record.

7. Performs defibrillation and cardiopulmonary resuscitation (CPR).

8. Support the clinical team in TAVI (trans femoral Aortic Valve Implants)

9. Trouble shoots and maintains the use of temporary pacing both internal and external.

Level 2- Electrophysiology Lab (EP)

10. Operates complex electrophysiology specialty equipment including:

- 3D mapping systems
- Intra cardiac stimulation
- EP monitoring and recording systems.

11. Monitors and identifies potentially lethal cardiac arrhythmias and responds by performing pacing techniques, defibrillation or CPR if required.

12. Obtains a high degree of understanding of the interpretation of cardiac arrhythmias and all invasive EP procedures.

13. Performs preoperative assessment and post-operative assessment on patients.

14. Works in collaboration with nursing to set up the room and preparation of procedures.

Level 3- Device Implants

15. Documentation of chronological events of the procedure in CVI source, Powerchart and PaceArt.

16. Supports and participates in approved research projects and protocols as required.

17. Supports an educational learning environment.

18. Under the direction of a physician, assists with the insertion of devices both single and dual chambers.

19. Programs the device in according to the Physicians request and able to perform defibrillation threshold testing.

20. Able to safely induce lethal arrhythmias in either internal or external defibrillation or pacing techniques.

21. Utilizes pacemaker analyzer for evaluation of loop recorder implants.

22. Supports the wards, and OR in programming /deactivation of all pacemakers and ICD (Intra cardia defibrillators).

23. Support MRI deactivation on high risk Pace maker patients.

QUALIFICATIONS:

Education, Training And Experience

- Diploma in Cardiovascular Technology; and
- Two years recent related experience; and
- Current registration or eligible for registration with the Canadian Association of Cardiopulmonary Technologist

An equivalent combination of training and experience may be considered.

Skills And Abilities

- Ability to work under stressful conditions
- Ability to retain a variety of complex details associated with the required duties and to make frequent decisions based upon such information
- Ability to work for lengthy periods wearing heavy lead shielding due to radiation exposure
- Ability to physically move awkward, heavy monitoring equipment