

VIVO– Boston Scientific Cath Lab Technician (CLT)

A Cath Lab Technician is a professional who works in the Cardiac Catheterization Laboratory. Cath Lab Technicians are vital team members who assist Interventional Cardiologist and doctors during procedures such as hemodynamic evaluation, coronary angiography, peripheral angiography, coronary imaging and interventions for structural heart disease.

Objectives

After the successful completion of the course participants should be able to demonstrate a clear understanding of:

- Indications and contraindications of the Cath Lab procedures
- Normal hemodynamics and pathophysiology
- The ability to take appropriate angiographic views for cardiac and coronary imaging
- The ability to interpret hemodynamic and angiographic data such as normal and abnormal intracardiac pressure and wave forms, calculation of valve areas and intracardiac shunts, normal and abnormal coronary anatomy and views, contrast agents.
- The trainee will gain knowledge in right heart catheterization, percutaneous femoral vein and artery puncture, line insertion, sterile techniques, pacemaker implantation and valvular procedures, angiography, angioplasty and electrophysiology
- Performing and reading tests like ECG, Echocardiography
- Various noninvasive procedures like angiography, angioplasty, valve replacement, pacemaker and ICD implantation
- Prepare equipment and devices e.g. stents, balloons, catheters, etc. and also advanced specialty devices such as chronic total occlusion devices, rotational atherectomy, etc.
- Various coronary imaging techniques such as intravascular ultrasound (IVUS), fractional flow reserve (FFR), optical coherence tomography (OCT)
- Endovascular interventions in peripheral artery diseases
- Commitment to service, organization values and professionalism through appropriate conduct demeanor



Course Description

- Heart anatomy and physiology
- Pharmacology
- Preventive cardiology
- Radiology
- Electrocardiography (ECG)
- Basic Life Support
- Diseases of heart
- Hemodynamics and instruments
- Basics of Cath Lab orientation
- Coronary interventions (PCI, transradial interventions, chronic total occlusion, rotational Atherectomy)
- Cardiac ventriculography and aortography
- Endovascular interventions in peripheral artery disease
- Coronary imaging
- Biomedical waste management
- Infection control measures
- Consent, documentation and records
- Communication and presentation skills

Highlights

- Theory+Simulation : 300 Hours
- Clinical Internship : 600 Hours
- Duration : 900 Hours/6 Months
- Certification : VIVO Healthcare and Boston Scientific
- Eligibility : 10+2 science with minimum 3 years experience in Cath Lab or BSc/GNM with 1 year relevant experience or Cardiac Care Technician/X-Ray/Radiology Technician with 1 year relevant experience or any paramedical course with 1 year cath lab experience