

VIVO - Cardiac Care Technician certificate will provide a foundation in health care careers, communication, soft skills, computers, anatomy, and physiology. Students will develop the basic skills necessary to monitor patients for any type of cardiac involvement in a health care setting. The student will be able to interpret basic ECGs and recognize cardiac dysrhythmias. Instructional methods will be varied including classroom and lab.

Cardiac Care Technologists prepare patients for open-heart surgery and the implanting of pacemakers. Technologists monitor patients during these procedures.

Objectives

After completion of the course, participants will be able to:

- Perform all cardiac ultrasound procedures (2D Echo, Colour flow, Doppler, trans oesophageal).
- Perform treadmill stress (TMT) under the supervision of a Cardiologist.
- Perform and read Electrocardiography (ECG).
- Prepare reports and printed images after scanning patients and work with doctors to provide a better understanding of the underlying cause.
- Assist cardiologists in all invasive and non-invasive procedures (angiogram, angioplasty, pacemaker implant, stress echo, tilt table test, Holter monitoring).
- Differentiate and demonstrate knowledge of normal/ abnormal anatomy.
- Able to define pathologies of critical nature and inform appropriate medical authority.
- Maintains confidentiality and protects sensitive data at all times.



Course Description

- Human Anatomy and Physiology
- Clinical Pathology
- Medicine relevant to cardiac care technology
- Introduction to Cardiac Care Technology
- Electrocardiography – ECG
- Echocardiography – Dobutamine Stress Echo, Trans Oesophageal Echo and related non-invasive tests
- Introduction to Cath Lab Procedures – Angiogram, Angioplasty, Pacemaker Implant, Device Closure, Valvuloplasty and related procedures
- Patient Care - Pre and post cardiac procedures
- Principles of Hospital Clinical Practice
- Biomedical Waste Management
- Basic Life Support • Treadmill Test
- Quality Assurance and Practice

Highlights

- **Theory+Simulation** : 840 Hours
- **Internship** : 660 Hours
- **Eligibility** : 10+2 with Science or ECG Technician
- **Duration** : 1500 Hours/ 12 Months
- **Certification** : VIVO/NSDC