

Echocardiography / Noninvasive Cardiovascular Sonographer Training Program
CIP Code: 51-0911

Program Description:

Non-Invasive Cardiovascular Sonography (NICVS), also called Echocardiography (or Echo), is a diagnostic modality used for medical imaging of heart & blood vessels. It is a powerful tool that can offer a wealth of information about the human heart and peripheral blood vessels. Echocardiography (cardiac ultrasound) is performed by using a specialized scanner called transducer (or probe) which is connected with the echo machine. The transducer, after attaching to the skin of the chest, produces high frequency sound waves (ultrasound) which are transmitted into the human body. These ultrasound waves reflect from heart/blood vessels to the transducer. From transducer the sound waves are then transformed into images on the screen of echo machine. These cardiovascular images provide valuable information for diagnosing and treating variety of heart and blood vessels diseases. Therefore Cardiovascular Sonography has become the most widely used imaging modality in modern medicine and it will continue to expand. The Program offers an indepth explanation of how Non-Invasive Cardiovascular Sonography works.

Objectives:

- Learn how to operate the machine
- Learn how to enter patient information
- Learn how to adjust depth measurement
- Learn how to adjust frequency
- Learn how to demonstrate indicator orientation
- Learn how to save images
- Learn how to establish objective criteria
- Learn how to position the patient for the specific test
- Learn the basic introduction to accreditation bodies
- Learn the standards for ultrasound QC (quality control)

Program Duration:

15 months

Clock Hours: 1400

Program Format:

The College will offer this program in on-ground format as well as in hybrid format in which students can take didactic/ theory courses using online delivery method.

Program Completion:

A Certificate of Completion will be awarded to those students who will successfully complete all required courses as per college's Satisfactory Academic Requirements and fulfill their financial obligation towards the college.

Certification:

Graduates who will meet additional requirements, including but not limited to ethics requirements, of the credentialing agency will be eligible to challenge national certification exam to become certified by passing the credentialing examination.