



## **DIPLOMA IN ECHOCARDIOGRAPHY/NONINVASIVE CARDIOVASCULAR SONOGRAPHER**

### **Program Description**

Echocardiography (or Echo) is another name for Non-Invasive Cardiovascular Sonography (NICVS), a diagnostic technique used to image or visualize the heart and blood vessels. It is a powerful yet authentic tool that has the ability to provide a wealth of information regarding the human heart and peripheral blood vessels.

Using a highly specialized scanner known as a transducer (or probe), which is connected to the echo machine, echocardiography (a cardiac ultrasound) is carried out. The transducer transmits high-frequency sound waves (ultrasound) into the human body after attaching to the chest's skin. The heart and blood vessels reflect these ultrasound waves back to the transducer. The echo machine's screen displays the images created from the sound waves from the transducer.

The echocardiography program provides a comprehensive explanation of how Non-Invasive Cardiovascular Sonography works. Stellar Career College's cardiac ultrasound programs in Indiana enable students to develop a thorough understanding of how the diagnosis is carried out, from setting the machine's frequencies to obtaining required results while keeping patient care intact.

### **Program Details**

#### **Course Duration**

18 Months

#### **Quarter Credit Hours**

50

### **Program Curriculum**

- **Technical Courses** 50 Quarter Credit Hours

## Program Learning Outcomes

Our Non-invasive cardiovascular sonographer programs train its graduates to:

1. Learn how to use/operate the machine
2. Learn how to enter patient data or history
3. Learn how to change/adjust the depth measurement
4. Learn how to change/adjust the frequency
5. Learn how to demonstrate the indicator orientation
6. Learn image-saving techniques
7. Learn how to set up objective criteria
8. Learn how to position the patient for the particular test properly
9. Learn the introduction & fundamentals of accreditation bodies
10. Learn the Quality Control (QC) standards for the ultrasound

## Program Career Opportunity

The Stellar Career College's cardiovascular sonography programs open a wide array of opportunities for students that include, but are not limited to, the following:

- Cardiac Sonographer
- Pediatric Echo Tech
- Echocardiography Technologist
- Echo Tech- Sonographer
- Echocardiographer, Noninvasive Cardiology, Contingent
- Pediatric Cardiac Sonographer
- Echo Technician
- Cardiovascular Supervisor - Echo
- Vascular Sonography Tech

## Program Completion

Students who successfully complete all required courses per the college's Satisfactory Academic Requirements and meet their financial obligations toward the college will receive an echocardiography certification.

Students must fulfill the following requirements in order to be eligible to take the national certification exam for the designation of Registered Cardiac Sonographer (RCS) through Cardiovascular Credentialing International (CCI):

- Complete the Echocardiography / Noninvasive Cardiovascular Sonographer program at Stellar Career College, which the ARRT recognizes.
- Must show competence in the program's clinical requirements as well as formal classroom instruction (didactic coursework).

## CCI Obligations

CCI upholds high ethical and professional standards. Students must follow all of the CCI Standards of Ethics, which include the Rules of Ethics. Any ethics violations must be reported to CCI within a 30-day period of their occurrence. Applicants who fail to follow these rules may be disqualified. Misconduct, charges, and convictions of varying sorts may violate CCI's Rules of Ethics. For more information, please see CCI's handbook, which is available online at <https://cci-online.org>.

## Program Format

The College will deliver this certified training program in a hybrid format of instructions delivery. Online and virtual technologies will be used to teach didactic courses, whereas laboratory courses will be delivered on-site or via virtual technologies. The students will complete the necessary clinical competencies and hours at their specific clinical sites.