



Electrocardiogram (ECG) Technician

Job Description

EKG Technicians perform diagnostic tests related to the heart, recording the heart's electrical impulses. The pattern of the signals can tell the physician whether the heart is normal, experiencing electrical problems, under strain, or damaged. The EKG technician studies the field of electrocardiography, learns to recognize basic rhythm disturbances, and develops an awareness of many acute and chronic problems affecting the heart. The EKG Technicians will administer and document various types of EKG monitoring and will provide appropriate care of the equipment. The EKG Technician works in physicians' offices, clinics, hospitals, and diagnostic centers.



Employment Outlook

Per the U.S. Bureau of Labor Statistics, employment of job opportunities for cardiovascular technologists and technicians across specialties earn \$51,847, based on additional skills in the medical field and experience. This is a faster growth than the average for all occupations.

Admission Requirements

Students must be 18 years of age and have a high school diploma or GED to enroll in this course.

Students who participate in this program must:

- Pull or push equipment, tables or chairs for patients.
- Lift supplies, bend, stoop, kneel or stand for extended period of time.
- Assess patient condition and monitor patient safety and comfort.
- Effectively communicate with patients and healthcare providers.

Program Description

This 40-hour EKG Technician program prepares students with EKG skills, practice with equipment and perform hands-on labs, including introduction to the function and proper use of the EKG machine, the normal anatomy of the chest wall for proper lead placement, 12-lead placement, and other clinical practices. Students will also learn to analyze printed readings of EKG tests, measuring various "cardiac intervals and complexes" and determining normal vs. abnormal EKG. However, this course prepares students with the skills and knowledge to perform EKGs in a healthcare setting. This course will also include students to become nationally certified by the NHA (National Healthcareer Association).

This program is recommended to pair with Certified Nurse Aide or Phlebotomy Technician.

Course objectives/learning outcomes:

- Discuss the basic electrophysiologic principles of cardiac conduction to the anatomy and physiology of the body
- Identify proper placement of leads to ensure an accurate and consistent EKG reading
- Analyze a variety of EKG rhythm strips, identifying rate, rhythm, intervals, and common dysrhythmias
- Demonstrate the technical aspects of the EKG machine to the correct use of the machine and interpretation of artifacts
- Describe diagnostic electrocardiography in terms of goals, types, procedures, indications, and contraindications
- Explain how to interpret a 12-lead EKG strip, and myocardial infarction in terms of physiology, symptoms

The Essential Job Skills & Career Development course is REQUIRED to receive a certificate of completion for the ECG Technician program.

Please be advised that if you have been convicted of a felony, you may not be eligible for clinical experiences, internships, externships or certifications associated with certain Healthcare Career programs. Those with previous convictions may also find it difficult to secure employment within a healthcare setting.

Time Commitment

This 2-month program includes 40 hours of classroom and lab instruction. This program is CT WIOA and SNAP approved.

CRN: 1271/1272 HMED M7210

Dates: May 22 to July 17, 2023 (No class 5/29,6/19,7/3)

Days: Monday and Thursday

Time: 6:00 p.m. - 9:00 p.m.

Instructor: Param Panchal

Room: 226

Instruction type: On Campus

Fee: \$918.00 (Cost includes textbooks, and national exam)

Payment Information

Total cost of this program is \$1,091 including textbooks, national certification exam, and Essential Job Skills & Career Development course. Payment plans are available for this program.

Contact Information

For more information or to register please call 860.253.3028 or email AS-continuinged@asnuntuck.edu

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