EKG Technician Program Courses

EKG 100: Medical Terminology
This course subject presents a study of basic medical terminology. Prefixes, suffixes, word roots, combining forms, special endings, plural forms, abbreviations, and symbols are included in the content. A programmed learning, word building systems approach is used to learn word parts for constructing or analyzing new terms. This provides the opportunity to decipher unfamiliar terms and check their spelling. Emphasis is placed on spelling, definition, usage, and pronunciation.

EKG 101: Anatomy and Physiology
This course subject is a scientific study of the structure of the human body and its parts, including relationships, functions, and diseases processes of the cardiovascular, and respiratory systems.

EKG 102: Electrocardiography
This course subject enables the student to perform electrocardiography (EKG) and recognize and interpret basic cardiac rhythms along with a trial, functional, and ventricular arrhythmias. Recognition and identification of the location if various myocardial infarctions is also included in. Utilizing the skills learned, the student will be able to identify and respond appropriately to life threatening cardiac arrhythmias and EKG changes.

EKG 104: Advanced Electrocardiographic Interpretation
This course subject will prepare students to operate a 12-lead EKG machine utilizing the proper techniques of performing Electrocardiograms, stress tests, and Holter monitor exams. Students will be able to perform EKG mountings and tracings, will learn the cardiovascular system, and interpret EKG readings including recognition or normal and abnormal arrhythmias. Students will also become cognizant of advanced heart diseases such as myocardial infarction and congestive heart failure including interpretation of advanced arrhythmias, Hypertrophies, heart blocks, premature ventricular contractions, and fibrillations.

EKG 200: Cardiac Rehabilitation
This course subject studies the role of exercise in health and disease, specifically acute and chronic effects of exercise upon the cardiovascular system. Students explore therapeutic benefits of exercise intervention and rehabilitation for individuals with heart disease, diabetes, and obesity. Students are provided with an opportunity to gain knowledge and understanding of physiological principles and concepts related to clinical cardiopulmonary assessment.

EKG 201: Cardiovascular Invasive/Noninvasive Procedures
This course subject introduces the basic principles and applications of cardio graphic procedures. Emphasis is placed on the physical assessment, physical principles of cardiac ultrasound, and echocardiographic imaging planes. Upon completion, students should be able to identify echocardiographic views with application of echocardiographic principles. Students will explore purpose of specialized equipment and its utilization during invasive procedures such as coronary angiogram, percutaneous coronary intervention, balloon angioplasty, coronary stenting, atherectomy, intravascular ultrasound, Angio jet thrombectomy, transesophageal echocardiogram, pacemaker implantation, peripheral implantation, peripheral artery angiogram/intervention, and EVLT procedures.

EKG 202: Job Placement
This course subject will prepare students for Proper Image, Dress, Resume, and How to Prepare for An Interview and other techniques to get them ready for job placement.