Course Title: Electrocardiography (EKG)

Course Number: HLTH 5340

Course Description: This comprehensive 50 hour EKG Technician Certification Course prepares students to function as EKG Technicians and to take the American Society of Phlebotomy Technician (ASPT) Electrocardiograph (EKG) Technician exam. This course will include important practice and background information on anatomy of the heart and physiology, medical disease processes, medical terminology, medical ethics, legal aspects of patient contact, laboratory assisting, electrocardiography and echocardiography. Additionally, students will 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.

Hours: 50

Course Prerequisite(s): High School Diploma or GED Equivalent

Student Learning Outcomes:
1. Describe the anatomy and physiology of the cardiovascular system
2. Perform basic electrocardiography procedures
3. Interpret basic dysrhythmias
4. Demonstrate appropriate treatments

Textbook(s): (Provided, and will be distributed on the first day of class)
1. Basic Arrhythmias - Sixth Edition
2. Student Handouts
3. EKG Slides

Withdrawal Policy: See the current Career Skills Training catalog for the tuition refund policy.

Collin College Academic Policies: See the current Collin Student Handbook.

Americans with Disabilities Act: Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student’s responsibility to contact the ACCESS office, SCC-G200 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current Collin Student Handbook for additional information.

Meeting Location: Courtyard Center

Attendance Policy: Students must be in attendance for at least 90% in order to pass competencies.
Lesson Plan:
Session 1: Coronary Anatomy and Physiology
Session 2: Electrophysiology
Session 3: Lead Morphology and placement
Session 4: Technical Aspects of the EKG
Session 5: Calculating Heart Rate
Session 6: How to Interpret a Rhythm Strip
Session 7: Rhythms Originating in the Sinus Node
Session 8: Rhythms Originating in the Atria
Session 9: Rhythms Originating in the AV Junction
Session 10: Rhythms Originating in the Ventricles
Session 11: AV Blocks
Session 12: Rhythm Practice Strips
Session 13: Artificial Pacemakers
Session 14: Diagnostic Electrocardiography
Session 15: Final Exam

Sessions listed are a guideline to indicate all topics that will be covered during your course. Do not plan your personal calendar based on these sessions. Your instructor will give you a calendar for your class that will indicate specific topics, labs, and days.

Method of Evaluation: Students must achieve a minimum of 75% final average and must be in attendance 90% of the class time in order to pass competencies.