

# Dakota County Technical College

## EKGT 2000: EKG Telemetry Technician

### A. COURSE DESCRIPTION

Credits: 6

Lecture Hours/Week: 4

Lab Hours/Week: 2

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This comprehensive 6 credit course will prepare students to be an EKG Technician and take the Certified EKG Technician (CET) exam. An EKG Technician attaches electrodes to the patient's body which then send a signal to a machine displaying the activity in a recognized pattern. The technician will recognize abnormalities in EKG tracings and report them to a physician or other authorized healthcare providers for interpretation.

Students will study: cardiac anatomy and physiology, EKG equipment (attaching to patients, proper safety and operation, recognize artifacts and resolve problems), how to recognize tracings that deviate from normal and prioritize reporting of such deviations, heart rhythms and waveforms, obtain basic vitals, HIPAA compliance, use of Holter monitors, introduction to stress tests and 12-lead EKGs, and more.

**B. COURSE EFFECTIVE DATES:** 08/26/2013 - Present

**C. OUTLINE OF MAJOR CONTENT AREAS**

#### **D. LEARNING OUTCOMES (General)**

1. Articulate the role and responsibilities of an EKG technician
2. Become familiar with different EKG equipment including positive and negative electrode placement and leads.
3. Demonstrate basic understanding of cardiac disorders and emergencies.
4. Demonstrate competency with the 12 lead EKG tracing.
5. Demonstrate knowledge of medical terminology related to the heart and EKG.
6. Demonstrate knowledge of the anatomy and physiology of the cardiovascular and circulatory systems.
7. Demonstrate proficiency in electrocardiography (EKG) by obtaining an EKG from a patient.
8. Demonstrate the ability to recognize normal and abnormal EKGs.
9. Demonstrate the application of a Holter monitor on a patient.
10. Describe characteristics of EKG tracings such as rhythm, rate, wave configuration, interval measurement, segments, and complex duration.
11. Describe the phases of the cardiac cycle.
12. Develop familiarity with the Patient's Bill of Rights, confidentiality, and other legal considerations related to EKG technicians.
13. Explain Holter monitoring.
14. Explain the preparation of the patient, room, and equipment for EKG.
15. Explain the purpose and the pharmacology of drugs commonly used in the treatment of cardiac disorders.
16. Explain the purpose of the EKG leads.
17. Identify artifact and its causes.
18. Introduce himself/herself in a professional manner.
19. List the important information that must be included on the EKG report.
20. Set up EKG equipment.
21. Use appropriate identification techniques to identify the patient

#### **E. Minnesota Transfer Curriculum Goal Area(s) and Competencies**

None

#### **F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

#### **G. SPECIAL INFORMATION**

None noted