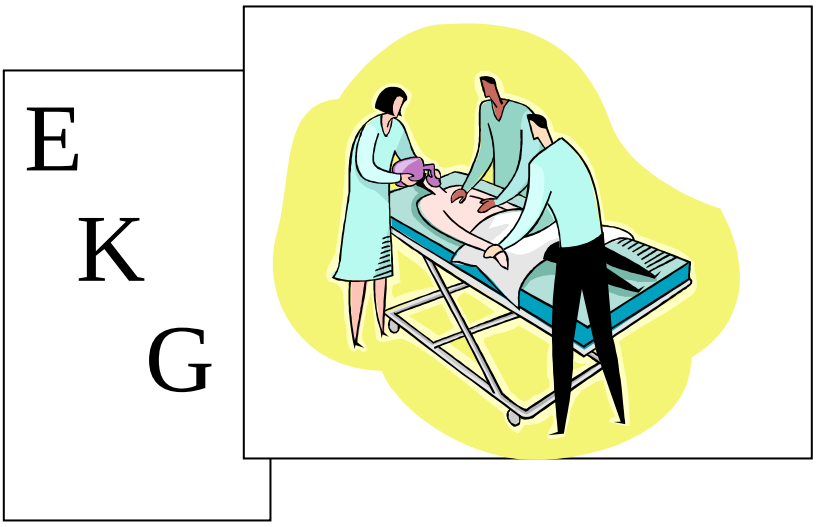
ELIM Outreach Training Center

1820 Ridge Rd. Suite 202
Homewood, Illinois 60430
P: 708-922-9547 F: 708-922-9568
E-mail: elim1820@comcast.net
Website: elimotc.com



ELECTROCARDIOGRAM PROGRAM

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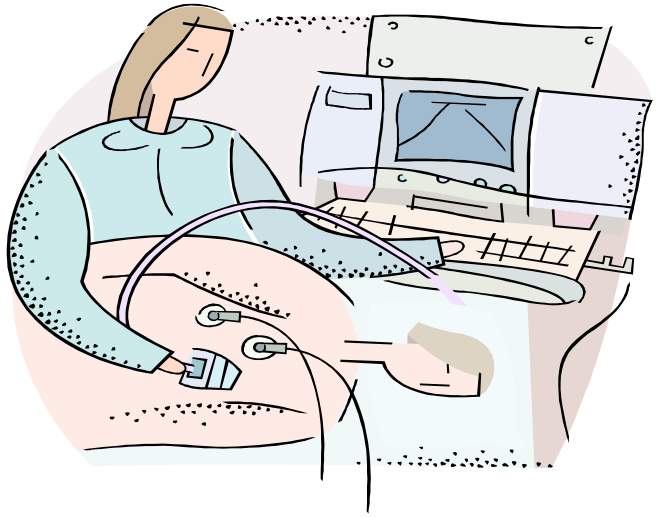
Revised 11/2026

STUDENT CATALOG



ELECTROCARDIOGRAM PROGRAM

At the time of publication, all material enclosed herein is current, true and correct and represents policies of Elim outreach training center, All curriculums offered are aimed for the those who wish to enter into the allied Healthcareer or those who desire a career change.

ELIM OUTREACH TRAINING CENTER IS NOT ACCREDITED BY AN ACCREDITING BODY RECOGNIZED BY THE U.S. DEPARTMENT OF EDUCATION.

ELIM OUTREACH TRAINING CENTER IS APPROVED TO OPERATE BY THE PRIVATE BUSINESS AND VOCATIONAL SCHOOLS DIVISION OF THE ILLINOIS BOARD OF HIGHER EDUCATION.

ELECTROCARDIOGRAM TECHNICIAN (EKG)
ADMISSION POLICY

REQUIREMENTS:

1. High school diploma or equivalent
2. Pass a standardize exam, reading and math at minimal 9TH grade level
3. Physical ability to lift and move 25 pounds
4. Fine motor coordination (good manual dexterity and hand/eye coordination)
5. Good visual acuity to distinguish color
6. Ability to stand for periods of time
7. Must be able to communicate effectively
8. Must be able to display flexibility, accept and integrate constructive criticism in the classroom and laboratory settings
9. Current physical exam (forms available in ELIM'S registration office)
   Pregnant students must provide a physician's statement indicating the student Is physically able to participate, without restrictions, in both classroom and clinicals (mock) components of the course.
10. Tuberculosis (TB) skin test Mantoux or chest x-ray

Students must:

1. Complete Up to 100 clock hours and up to 14 weeks
2. Pass the course with a grade of "C" or better
3. Participate in all simulated clinical

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ELECTROCARDIOGRAM(EKG)TECHNICIAN .....SYLLABUS

COURSE DESCRIPTION:

Electrocardiograms are performed routinely at medical examinations, pre-surgical evaluations, before initiating fitness program, as well as in the assessment and treatment of cardiovascular disease.

This program will instruct students in the responsibilities of applying up to 12 leads Electrocardiograms, patients' confidentiality, basic electrophysiology, and rhythms strips interpretations. Lectures will include medical terminology, cardiac drugs, cardiac complications recording and reporting procedures, atrial/ventricular /sinus/ pacemaker rhythms and the operation of the 12-lead machine.

The duration of the class is up to 14 weeks and up to 100 clock hours.

COURSE OBJECTIVES:

GRADUATES OF THIS PROGRAM SHALL:

1. Become knowledgeable about the career of Electrocardiogram Technician
2. Have a basic knowledge of anatomy and physiology of the heart
3. Possess knowledge of patient's rights and confidentiality
4. Define, correctly spell, and identify common medical terminology, terms and abbreviations encountered in electrocardiograms
5. List at least two basic types of cardiac cells in the heart, and know their location
6. Describe a p-wave, pr segment, pr interval, qrs complex, st-segment, t-wave, qt interval, and u-wave as they relate to cardiac activity
7. Describe the ekg signs and symptoms of emergency care of dysrhythmias
8. Successfully identify the 12 lead ekg, describe the correct anatomic placement of the leads, and correctly place the leads .
9. Students to prepare to participate in electrocardiogram simulated lab, EKG tutorial and educational video
10. Demonstrate understanding of theory and clinical by scoring a passing score on the National Certification written exam.

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ELECTROCARDIOGRAM TECHNICIAN (EKG).....TUITION

COURSE DESCRIPTION:

Electrocardiograms are performed routinely during physical examination, pre-surgical evaluations, before starting fitness programs, and in treatment of cardiovascular diseases. This program will instruct students in the responsibilities of applying up to 12 leads electrocardiograms, patients' confidentiality, basic electrophysiology, and rhythm strip interpretations. Lectures will include medical terminology, cardiac drugs, and cardiac complications. Stress test and holter monitor will be discussed. Each student will perform up to 7 EKGs.

The Electrocardiogram Technician training program is up to 100 clock hours and up to 15 weeks.

Upon completion of the course, the student will receive a Certificate of Completion.

***TUITION /REGISTRATION:**	**$ 1100.00**
BOOKS/HANDOUTS	$ 150.00
Lab Fees	$70.00
	Total $ 1320.00

OTHERS:

1.	Uniform	$ 35.00
2.	Shoes	$ 35.00
3.	Stethoscope	$ 20.00
4.	CPR	$ 65.00
5.	National Exam	$130.00
6.	Criminal Background	$ 40.00
7.	Calipers	$ 25.00
		Total $ 350.00
		Total $ 1670.00

Price subject to change without notice: (*any such changes will not affect currently enrolled students unless they agree to such changes in writing)

Under the law you have the right, among others, to pay the full amount due and to obtain under certain conditions a partial refund of financial charges if applicable. ELIM does not charge finance charges. However, a late fee (10%) will be added to all late payments.

Methods of payment: Cash, Money order, or cashier's check. Sorry, we do not accept personal checks, debit, or credit cards.

Please see your contract regarding payments and amount due on the first day of class or orientation. Books will be issued with the first payment. Also, a criminal background check must be done before class, and a physical exam must be started before clinical.

Supplies may be bought from ELIM, or you may find uniforms and other supplies at: Wal-Mart. Please consult the yellow pages or the internet for a location near you.

ELECTROCARDIOGRAM COURSE MATERIAL

TEXT BOOK INFORMATION:

Electrocardiography Essentials BY; Cheryl Passanisi, RN, MS
Clinical allied Healthcare Series
Kay Stevens, RN, MA
Series Editor Copyright © 2004 Thomson Delmar Learning

Book Description

The information presented in this book focuses on the essential information the student Needs to know to interpret ECG's/EKG's and understand their significance. Each ECG Rhythm is described and accompanied by a sample rhythm strip. Possible patient signs and Symptoms related to the rhythm and when appropriate, current recommended treatments for the rhythm are discussed.

INCLUDES OTHER information such as cardiac drugs, anatomy and physiology of the heart, introduction to the 12-lead ECG, and the application of the 12-lead electrodes

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Electrocardiogram Course Outline

Orientation

A. Course Introduction
B. Program Policies and Procedures

UNIT 1

Introduction to Electrocardiogram

A. Role and Responsibility of the EKG Technician
B. Qualification of the EKG Technician
C. Key terms related to EKG

Objectives:

At the end of this unit the student shall be able to:
1. Define and correctly spell important related words.
2. State the role and responsibilities of the EKG technician
3. State the qualities of an EKG technician

UNIT 2

Fundamental Concepts

A. Introduction to the Cardiac Patient
B. Cardiac Risk factors
C. Disease and Diagnostic Procedures
D. Key Terms

Objectives:

At the end of this unit the student shall be able to:
1. State and explain several cardiac risk factors
2. State several disease and conditions that may have an effect on the heart
3. Define and correctly spell key terms

UNIT 3

Cardiac Anatomy and Physiology

A. The role and the position of the heart in the body
B. The heart as a muscle
C. Circulation of Blood through the heart
D. The Electrical Impulse and Conduction system
E. The Cardiac Cycle

Objectives:

At the end of this unit the student shall be able to:
1. State the location of the heart and identify the large blood vessels around the heart
2. Describe how the heart works as a muscle
3. State the flow of blood through the heart
4. State the difference between mechanical and electrical function of the heart
5. Define and correctly spell key terms

UNIT 4

EKG Basics: The Heartbeat as a Waveform

A. Application of theory
B. Action Potential
C. The Waveform
D. EKG tracing
E. The Cardiac Cycle

Objectives:

At the end of this unit the student shall be able to:

1. State the theory of events as it relates to polarization, depolarization, repolarization and movements of electrolytes
2. Describe how the electrical impulse represented by the EKG waveform relate to the activities of the heart chambers
3. Label the parts of the normal sinus waveform of the EKG tracing
4. Define and correctly spell the key terms

UNIT 5

The 12-Lead EKG

A. Introduction to the 12-Lead ECG
B. Preparing the Patient
C. The Electrocardiograph
D. The ECG Reading
E. Lead Placement and Description
F. Procedures for Obtaining a 12-Lead ECG

Objectives:

At the end of this unit the student shall be able to:

1. State what a "lead" is and recognize the 12 leads used in a standard ECG
2. Describe the equipment used when obtaining an ECG
3. State the correct way to prepare a patient's skin for an ECG and give explanation why proper preparation is important
4. Describe the proper steps to follow when taking an ECG
5. Demonstrate how to correctly perform an ECG
6. Define and correctly spell key terms

UNIT 6

The Holter Monitor

A. Indications for the Holter Monitor
B. The Holter Monitor
C. Lead Positions
D. Holter Monitor Testing
E. Holter Monitor Placement

Objectives:

At the end of this unit the student shall be able to:

1. Explain the Holter monitor and state its likeness and dissimilarity from a 12-Lead ECG
2. Give several symptoms that may require testing with a Holter monitor
3. State several conditions in which the use of the Holter monitor can be helpful

in determining an ultimate diagnosis

4. Explain the correct procedure for applying a Holter monitor to a client
5. Discuss why a journal is needed and how long the monitor is left on
6. Correctly apply a Holter monitor to a classmate
7. Spell and define key terms

UNIT 7

The Treadmill Stress Test

A. Indications for a TMST
B. Contraindications for a TMST
C. Patient Instruction
D. Exercise ECG Equipment
E. Patient Preparation
F. Determining a Patient's Target Heart Rate
G. Roles of Healthcare Professionals
H. Treadmill stress test and blood pressure
I. Precautions

Objectives:

At the end of this unit the student shall be able to:

1. State what information can be obtained from a TMST, or exercise ECG
2 Give several sign and conditions that may require further testing by a TMST
3. State signs that a client may develop during a Treadmill Stress Test
4. Give several reasons for stopping the Treadmill Stress Test.
5. Discuss which condition can make it unsafe to proceed with an exercise ECG
6. Correctly take a blood pressure
7. Define and correctly spell key terms

UNIT 8

Basics of Rhythm Interpretation

A. Introduction to Rhythm Analysis
B. ECG Graph Paper
C. Systematic Rhythm Analysis
D. Rhythm Interpretation

Objectives:

At the end of this unit the student shall be able to:

1. Explain the requirements for normal sinus rhythm
2. State how to examine the heart rhythm
3. Distinguish and correctly measure components of the ECG waveform
4. Give the normal duration for the PR interval and QRS complex
5. State several techniques for measuring waveforms
6. Explain normal sinus rhythm
7. Correctly spell and define key terms

UNIT 9 Analysis and Identification of Abnormal Heart Rhythms

A. Introduction to Abnormal Heart Rhythms
B. Atrial Arrhythmias
C. Junctional Arrhythmias
D. Ventricular Arrhythmias
E. Heart Block
F. Other significant Rhythms

Objectives:

At the end of this unit the student shall be able to:

1. State several irregular heart rhythms that originate in the atria of the heart
2. Name several .irregular heart rhythms that initiate in the ventricle of the heart
3. State three irregular heart rhythms that arise because of abnormalities that block the conduction system of the heart
4. Give three heart rhythms that point to a medical emergency
5. Correctly spell and define key terms

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Electrocardiogram technician
Unit hours

Unit	Hours
Unit 1. Introduction to the Role	6
Unit 2 . Fundamental concepts	6
Unit 3. Cardiac Anatomy & Physiology	15
Unit 4 . EKG Basic	14
Unit 5 . The 12 Lead ECG/ EKG	14
Unit 6 . Holter Monitor	7
Unit 7. The Treadmills Stress Test	7
Unit 8. Basic Rhythm Interpretation	16
Unit 9. Analysis and Identification of Abnormal Heart Rhythms	15
Total Clock Hours	100

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ELECTROCARDIOGRAM (EKG) TECHNICIAN
CLASS SCHEDULE FOR 2026-2027 SCHOOL YEAR

COURSE	START DATE	END DATE
Electrocardiogram Technician Thursday PM 5:30AM- 9:00 PM Instructor: Dr. Ola **Up to 15 weeks** **Up to 100 clock hours** ----------	**May 7, 2026** **Sept 03, 2026** **Jan 14, 2027** **April 29, 2027**	**Aug 28, 2026** **Dec 17, 2026** **April 15, 2027** **August 26, 2027**

School will be closed for summer break from June 15, 2027, until July 5, 2027.
Please note: If emergencies occur for any reason(s), the class schedule may be extended as needed.

I understand that dates and times are subject to change with notice. Please see the 2026-2027 Academic Calendar for dates when the school will be closed.

_____ **Start Date** _____ **Registration Date** _____

Student Signature

_____ _____

Staff Signature **Date**