Health and Safety Services
Continuing Education
Electrocardiography/EKG Technician Course

Course Syllabus

Required Course Textbook

*EKG Plain and Simple - Third Edition, Karen M. Ellis*
Cost of textbook included in course tuition. Textbook distributed first day of course.

Quizzes and Exams

- 2 Progress-Assessment Quizzes
- 2 Written Exams
- Final Written Exam
- Final Practical Skills Exam

Requirements for Course Completion

- Punctual attendance on all class days.
- Consistent, active participation in all lab and classroom activities.
- On time completion of all homework assignments.
- Cumulative course grade average of 70% or better.
- Passing grade of 70% or better on the final written exam.
- Passing grade on the final practical skills exam.

Course Days

7 4-hour sessions.

Day 1 of 7
Day 2 of 7
Day 3 of 7
Day 4 of 7
Day 5 of 7
Day 6 of 7
Day 7 of 7

Day 1 of 7

- **Course Orientation:** Welcome and Introductions, Policies and Procedures, Review of Course Syllabus
- **Interactive Lecture 1.1:** Coronary Anatomy and Physiology
- **Group Activity:** Navigating the Heart
- **Interactive Lecture 1.2:** Electrophysiology
- **Group Activity:** PQRST - Waves and Intervals

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• Student Handout: PQRST - Waves and Intervals
• Review and Homework Assignment

Day 2 of 7

• Progress-Assessment Quiz 1: Information Covered to Date
• Rapid Review
• Interactive Lecture 2.1: EKG Paper
• Interactive Lecture 2.2: Lead Morphology and Placement
• Group Activity: Lead Morphology Practice
• Skills Demonstration and Practical Skills Lab: Lead Placement
• Interactive Lecture 2.3: Technical Aspects of the EKG
• Group Activity: Artifact Identification and Troubleshooting
• Interactive Lecture 2.4: Routine EKG Procedure
• Skills Demonstration and Practical Skills Lab: Routine EKG
• Review and Homework Assignment

Day 3 of 7

• Written Exam 1 (Multiple Choice): Information Covered to Date
• Interactive Lecture 3.1: Calculating Heart Rate
• Group Activity: Calculating Heart Rate
• Interactive Lecture 3.2: How to Interpret a Rhythm Strip (Basic)
• Group Activity: Basic Rhythm Strip Analysis in 5 Steps
• Interactive Lecture 3.3: Rhythms Originating in the Sinus Node
• Group Activity: Rhythm Identification - Rhythms Originating in the Sinus Node
• Review and Homework Assignment

Day 4 of 7

• Progress-Assessment Quiz 2: Information Covered to Date
• Interactive Lecture 4.1: Rhythms Originating in the Atria
• Interactive Lecture 4.2: Rhythms Originating in the Sinus Node
• Interactive Lecture 4.3: Rhythms Originating in the AV Junction
• Interactive Lecture 4.4: Rhythms Originating in the Ventricles
• Interactive Lecture 4.5: AV Blocks
• Group Activity: Rhythm Rodeo
• Skills Demonstration and Practical Skills Lab: Routine EKG in Context (Scenario-Based Skill Refinement)
• Review and Homework Assignment

Day 5 of 7

• Written Exam 2 (Multiple Choice): Information Covered to Date
• Interactive Lecture 5.1: Cardiac Medications Awareness
• Interactive Lecture 5.2: Introduction to Diagnostic Electrocardiography
• Interactive Lecture 5.3: Foundations for Growth - Introduction to EKG Advanced Topics
• Intensive Review for Final Written Exam

Day 6 of 7

• Final Written Exam (Multiple Choice)
• Skills Demonstration and Practical Skills Lab: Intensive Preparation for Final Practical Skills Exam

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Day 7 of 7

- Final Practical Skills Exam