



NHA Certified EKG Technician (CET) 2018 NHA/EKG-2018

This document provides the correlation between HealthCenter21 interactive e-learning curriculum, and the NHA Certified EKG Technician (CET) 2018 standards.



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HealthCenter21 Template

All NHA Certified EKG Technician (CET) 2018 NHA/EKG-2018

Health Information Technology

HIT Terminology
Health Information Technology Overview
Electronic Health Records
Health Insurance Portability and Accountability Act (HIPAA)
Reflection Questions and Discussion
Current Event

Legal and Ethical Responsibilities

Confidentiality Role Play
Civil and Criminal Law
Privacy and Security
Advance Directives and Client Rights
Liability and Ethics
Workplace Law
Reflection Questions and Discussion
Advanced Directives (Create a Living Will)
Ethics Debate
Code of Ethics
Scope of Practice
Current Event

Infection Control

Hand Washing
Introduction to Infection Control
Standard Precautions
Transmission-Based Precautions
Sterile Technique
Reflection Questions and Discussion
Hand Washing
Observing Microorganism Growth
Chain of Infection Poster
Current Event

Electrocardiography

Use and Care of Equipment
Anatomy and the ECG
The Science of the ECG
Performing a Standard Resting ECG
Using ECG Recordings
Other Cardiac Tests and Equipment
Communication Exercise
Reflection Questions and Discussion
Healthy Heart Poster
Patient Care Scenarios
Current Event

The Health Assistant

Verbal and Nonverbal Communication
Health Assisting
Nursing
Qualities of Health Assistants
Infection Control and Safety Precautions
Legal Conduct
Patient Rights and Code of Ethics
Communication Exercise
Reflection Questions and Discussion
Job Search
Self-Portrait
Current Event

Communications

Communications Game
Basic Communication
Interpersonal Communication
Communication Barriers
Communicating with Patients
Documentation
Communication Technology
Reflection Questions and Discussion
Communication Skits
Culture/Religion Presentation
Taking Phone Messages
Communication Diversity Skit
Current Event



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Client Status

Explore
Vital Signs and Body Measurements
Temperature
Pulse
Respiration
Blood Pressure
Reflection Questions and Discussion
Examining Vital Signs
Current Event

CPR Methods 2015

Explore
Basic Adult CPR
Pediatric CPR
Airway Obstructions
Review Challenge
Reflection Questions and Discussion
Reinforce
Current Event

Anatomy and Physiology

Explore
Introduction to Anatomy and Physiology
Integumentary System
Skeletal System
Muscular System
Nervous System
Sensory System
Cardiovascular System
Lymphatic System
Respiratory System
Digestive System
Urinary System
Endocrine System
Reproductive System
Reflection Questions and Discussion
Informative Brochure
Body Function Worksheet
Current Event

I.	Domain 1: Safety, Compliance, and Coordinated Patient Care	
A.	Adhere to HIPAA regulations.	1 / 1
1.	HIPAA regulations	Health Information Technology Legal & Ethical Responsibilities
B.	Adhere to infection control practices (e.g., OSHA, universal precautions).	1 / 1
1.	Guidelines regarding infection control (e.g., OSHA, universal precautions)	Infection Control
C.	Adhere to scope of practice and comply with ethical standards.	2 / 2
1.	Scope of practice of the EKG technician	Electrocardiography
2.	Ethical standards related to the practice of EKG technicians (e.g., NHA Code of Ethics)	Electrocardiography The Health Assistant
D.	Communicate appropriately with patients and members of the multidisciplinary health care team.	3 / 3
1.	Communication methods and techniques	Communications Electrocardiography
2.	Factors that affect communication with patients (e.g., culture, language, religion, developmental level, gender, disability)	Communications
3.	Roles and responsibilities of members of the interdisciplinary health care team	Electrocardiography
E.	Obtain and interpret patient vital signs.	2 / 3
1.	Emergencies related to cardiac testing (e.g., syncope, chest pain, abnormal vitals)	
2.	Methods for obtaining vital signs	Client Status
3.	Normal vital signs across the lifespan	Client Status
F.	Instruct patients about preparation for and expectations during stress testing.	2 / 2
1.	Patient preparation for stress testing	Electrocardiography
2.	Types of stress tests	Electrocardiography

G.	Instruct patients on use of ambulatory monitoring (e.g., Holter, event), and verify their understanding.	2 / 2
1.	Instructions for patient use of ambulatory monitors	Electrocardiography
2.	Types of ambulatory monitors	Electrocardiography
H.	Utilize electronic medical records/electronic health records (EMR/EHR) to input patient information (e.g., patient history, medications, vitals, completed EKG).	1 / 1
1.	Basic elements and processes related to electronic medical records/electronic health records (EMR/EHR) (e.g., fields, transmit or upload results)	Health Information Technology
I.	Recognize signs and symptoms of cardiopulmonary compromise.	2 / 4
1.	Emergencies related to cardiac testing (e.g., syncope, chest pain, abnormal vitals)	
2.	Cardiopulmonary resuscitation and basic life support	CPR Methods 2015
3.	Normal vital signs across the lifespan	Client Status
4.	Signs or symptoms of cardiopulmonary compromise	
II.	Domain 2: EKG Acquisition	
A.	Maintain EKG equipment (e.g., load paper, replace clips, disinfect machines and leads).	3 / 3
1.	EKG equipment maintenance and cleaning requirements (e.g., paper loading, clip replacement, machine and lead disinfection)	Electrocardiography
2.	Supplies needed to perform or assist in cardiac tests	Electrocardiography
3.	Equipment needed to perform or assist in cardiac tests	Electrocardiography
B.	Verify EKG machine settings (speed, gain).	1 / 1
1.	Machine settings for acquiring tracing (e.g., speed, gain)	Electrocardiography
C.	Prepare skin for electrode placement.	2 / 2
1.	Supplies needed to perform or assist in cardiac tests	Electrocardiography
2.	Methods to prepare the skin for application of EKG electrodes	Electrocardiography

D.	Position patient for cardiac testing (e.g., 3-, 5-, 12-lead, stress test, telemetry).	2 / 2
1.	Positioning considerations for special patient populations (e.g., amputees, respiratory issues, late-term pregnancy)	Electrocardiography
2.	Positioning protocols for specific cardiac tests	Electrocardiography
E.	Apply electrodes and attach leads for:	9 / 10
1.	Standard 12-lead EKG	Electrocardiography
2.	Ambulatory (e.g., Holter, event) monitoring	Electrocardiography
3.	Stress testing	Electrocardiography
4.	Telemetry	Electrocardiography
5.	Patients who have special considerations (e.g., right-sided heart, posterior chest, amputations, pediatric)	
6.	Basic anatomy and physiology of the heart	Electrocardiography
7.	Location of electrode application for various cardiac tests	Electrocardiography
8.	Lead placement and troubleshooting	Electrocardiography
9.	Types of EKG acquisition (e.g., 3-, 5-, 12-lead, stress test, telemetry)	Electrocardiography
10.	Types of cardiac monitoring (e.g., ambulatory, stationary)	Electrocardiography
F.	Verify that all leads were recorded.	2 / 2
1.	Lead placement and troubleshooting	Electrocardiography
2.	Elements of complete EKG tracing	Electrocardiography
G.	Identify and resolve artifacts from the tracing (e.g., wandering baseline, somatic, electrical).	2 / 2
1.	Causes and types of artifacts (e.g., wandering baseline, somatic tremor, AC interference)	Electrocardiography
2.	Methods to resolve artifacts	Electrocardiography
H.	Mount a completed EKG tracing strip for patient's chart.	1 / 1
1.	Mounting EKG rhythm strips	Electrocardiography
I.	Assist in monitoring patient condition during stress testing.	1 / 2

1.	Emergencies related to cardiac testing (e.g., syncope, chest pain, abnormal vitals)	
2.	Signs of adverse reaction during stress testing (e.g., shortness of breath, chest pain, abnormal vitals)	Electrocardiography
J.	Provide support in responding to complications during stress testing.	2 / 3
1.	Emergencies related to cardiac testing (e.g., syncope, chest pain, abnormal vitals)	
2.	Cardiopulmonary resuscitation and basic life support	CPR Methods 2015
3.	Signs of adverse reaction during stress testing (e.g., shortness of breath, chest pain, abnormal vitals)	Electrocardiography
III.	Domain 3: EKG Analysis and Interpretation 24	
A.	Calculate patient's heart rate from the EKG tracing.	3 / 3
1.	Formulas to determine maximum and target heart rates	Electrocardiography
2.	Methods to calculate heart rate (e.g., 6-second method, R-R interval, sequencing)	Electrocardiography
3.	Units of measurement of graph paper	Electrocardiography
B.	Determine the regularity of the patient's heart rhythm from the EKG tracing.	2 / 2
1.	Regular and irregular heart rhythms	Electrocardiography
2.	Units of measurement of graph paper	Electrocardiography
C.	Measure EKG intervals and waveforms (e.g., PR interval [PRI], QRS duration, QT interval).	4 / 4
1.	Basic anatomy and physiology of the heart	Electrocardiography
2.	Electrical conduction	Electrocardiography
3.	Techniques for measuring waveforms	Electrocardiography
4.	Units of measurement of graph paper	Electrocardiography
D.	Inspect the waveform characteristics (P waves, QRS complexes, ST segments, Twaves) for symmetry, direction, and amplitude.	2 / 3
1.	Normal and abnormal waveform duration and intervals	Electrocardiography

2.	Normal and abnormal waveform characteristics	Electrocardiography
3.	Electrolyte abnormalities	
E.	Identify arrhythmias (sinus, atrial, ventricular, junctional, heart blocks) from the EKG tracing.	2 / 3
1.	Basic anatomy and physiology of the heart	Electrocardiography
2.	Emergencies related to cardiac testing (e.g., syncope, chest pain, abnormal vitals)	
3.	Types of arrhythmias (sinus, atrial, ventricular, junctional, heart blocks)	Electrocardiography
F.	Recognize pacemaker spikes on an EKG tracing.	0 / 1
1.	Spikes caused by pacemakers	
G.	Identify ischemia, injury, and infarction on the EKG tracing.	1 / 3
1.	Emergencies related to cardiac testing (e.g., syncope, chest pain, abnormal vitals)	
2.	Normal and abnormal waveform characteristics	Electrocardiography
3.	Variances in waveforms related to ischemia, injury, and infarction	
H.	Take appropriate action when life-threatening arrhythmias are identified.	2 / 3
1.	Emergencies related to cardiac testing (e.g., syncope, chest pain, abnormal vitals)	
2.	Cardiopulmonary resuscitation and basic life support	CPR Methods 2015
3.	Life-threatening arrhythmias (e.g., ventricular fibrillation, ventricular tachycardia)	Electrocardiography
IV.	CORE KNOWLEDGE	3 / 3
1.	Basic anatomy and physiology of the heart	Anatomy & Physiology Electrocardiography
2.	Emergencies related to cardiac testing (e.g., syncope, chest pain, abnormal vitals)	CPR Methods 2015 Client Status
3.	Cardiopulmonary resuscitation and basic life support	CPR Methods 2015