

# 2011 to 2017 CET Test Plan Crosswalk

Crosswalk Section: The following bridges tasks on the 2011 CET test plan with task statements on the 2017 CET test plan.

2011 NHA Test Plan Number	TASK DESCRIPTION	2017 NHA TEST PLAN NUMBER	TASK AND KNOWLEDGE DESCRIPTION
<b>1.</b>	<b>EKG Monitoring</b>		
1.A.	Calculate a patient's heart rate from the EKG tracing (e.g., 6-second method, R to R sequencing).	3.A.	Calculate patient's heart rate from the EKG tracing.
1.B.	Identify artifacts from the tracing (e.g., wandering baseline, somatic, electrical).	2.G.	Identify and resolve artifacts from the tracing (e.g., wandering baseline, somatic, electrical).
1.C.	Resolve artifacts from the tracing (e.g., wandering baseline, somatic, electrical).	2.G.	Identify and resolve artifacts from the tracing (e.g., wandering baseline, somatic, electrical).
1.D.	Record an EKG lead on a patient.	2.F.	Verify that all leads were recorded.
1.D.1.	3-lead.	2.E.4.	Apply electrodes and attach leads for: Telemetry.
1.D.2.	5-lead.	2.E.2.	Apply electrodes and attach leads for: Ambulatory (e.g., Holter, event) monitoring.
1.D.3.	12-lead.	2.E.1	Apply electrodes and attach leads for: Standard 12-lead EKG.
1.E.	Verify the leads recorded on an EKG	2.F.	Verify that all leads were recorded.
1.F.	Upload a completed EKG to a patient's electronic medical record.	1.H.	Utilize electronic medical records/electronic health records (EMR/EHR) to input patient information (e.g., patient history, medications, vitals, completed EKG).

1.G.	Mount a completed EKG for a patient's chart.	2.H.	Mount a completed EKG tracing strip for patient's chart.
1.H.	Measure a patient's heart rhythm from the EKG tracing.	3.B.	Determine the regularity of the patient's heart rhythm from the EKG tracing.
1.I.	Inspect the waveforms of a cardiac cycle for symmetry, direction, and amplitude (e.g., P waves, QRS complexes, ST segments, T waves).	3.D.	Inspect the waveform characteristics (P waves, QRS complexes, ST segments, T waves) for symmetry, direction, and amplitude.
1.J.	Measure a patient's heart conduction from the EKG tracing (e.g., PR-interval (PRI), QRS duration, QT-interval).	3.C.	Measure EKG intervals and waveforms (e.g., PR interval [PRI], QRS duration, QT interval).
1.K.	Identify the major classifications of arrhythmias from the EKG tracing (e.g., sinus, atrial, ventricular, junctional).	3.E.	Identify arrhythmias (sinus, atrial, ventricular, junctional, heart blocks) from the EKG tracing.
1.L.	Identify the major variances to waveforms related to ischemia, injury or infarction.	3.G.	Identify ischemia, injury, and infarction on the EKG tracing.
1.M.	Respond to potentially life threatening arrhythmias.	3.H.	Take appropriate action when life-threatening arrhythmias are identified.
1.N.	Verify EKG machine paper speed (e.g., 25mm, 50mm).	2.B.	Verify EKG machine settings (speed, gain).
1.O.	Verify EKG machine sensitivity (e.g., h, 1, 2).	2.B.	Verify EKG machine settings (speed, gain).
1.P.	Maintain EKG equipment and the work environment.	2.A.	Maintain EKG equipment (e.g., load paper, replace clips, disinfect machines and leads).
1.Q.	Recognized pacemaker spikes on an EKG trace.	3.F.	Recognize pacemaker spikes on an EKG tracing.

2		Patient Care	
2.A.	Prepare the Patient.	2.C. 2.D.	Prepare skin for electrode placement. Position patient for cardiac testing (e.g., 3-, 5-, 12-lead, stress test, telemetry).
2.A.1.	EKG monitoring (e.g., patient history, cardiac medications, patient positioning).	1.H.  2.D.	Utilize electronic medical records/electronic health records (EMR/EHR) to input patient information (e.g., patient history, medications, vitals, completed EKG).  Position patient for cardiac testing (e.g., 3-, 5-, 12-lead, stress test, telemetry).
2.A.2.	Holter monitoring.	1.G.	Instruct patients on use of ambulatory monitoring (e.g., Holter, event), and verify their understanding.
2.A.3.	Stress testing.	1.F.	Instruct patients about preparation for and expectations during stress testing.
2.A.4.	Telemetry monitoring.	2.D.	Position patient for cardiac testing (e.g., 3-, 5-, 12-lead, stress test, telemetry).
2.B.	Apply electrodes on patients.	2.C. 2.E.	Prepare skin for electrode placement. Apply electrodes and attach leads for: <ul style="list-style-type: none"> <li>1. Standard 12-lead EKG</li> <li>2. Ambulatory (e.g., Holter, Event) monitoring</li> <li>3. Stress Testing</li> <li>4. Telemetry</li> <li>5. Patients with special considerations (e.g., right-sided heart, posterior chest, amputations, pediatric)</li> </ul>

2.B.1.	EKG.	2.E.1.	Standard 12-lead EKG.
2.B.2.	Holter monitoring.	2.E.2.	Ambulatory (e.g., Holter, event) monitoring.
2.B.3.	Stress testing.	2.E.3.	Stress testing.
2.B.4.	Telemetry.	2.E.4.	Telemetry.
2.B.5.	Pediatric patients.	2.E.5.	Patients who have special considerations (e.g., right-sided heart, posterior chest, amputations, pediatric.)
2.B.6.	Patients with special considerations (e.g., right sided heart, posterior chest, amputations).	2.E.5.	Patients who have special considerations (e.g., right-sided heart, posterior chest, amputations, pediatric).
2.C.	Respond to signs and symptoms of cardiopulmonary compromise.	1.I.	Recognize signs and symptoms of cardiopulmonary compromise.
2.D.	Adhere to HIPAA regulations regarding Protected Health Information.	1.A.	Adhere to HIPAA regulations.
2.E.	Monitor patient condition during stress testing.	2.I.	Assist in monitoring patient condition during stress testing.
2.F.	Respond to complications during stress testing.	2.J.	Provide support in responding to complications during stress testing.
2.G.	Verify patient understanding of Holter monitor procedures.	1.G.	Instruct patients on use of ambulatory monitoring (e.g., Holter, event), and verify their understanding.
		1.D.	Communicate appropriately with patients and members of the multidisciplinary health care team.
2.H.	Obtain patient vital signs (e.g., heart rate, respirations, temperature, blood pressure, pulse oximetry).	1.E.	Obtain and interpret patient vital signs.

### **New Tasks and Knowledge Descriptions:**

The following is a list of the tasks that will be new areas of coverage on the 2017 CET test plan

<b>2017 NHA Test Plan Number</b>	
<b>1.B.</b>	<b>Adhere to infection control practices (e.g., OSHA, Universal Precautions).</b>
<b>1.C</b>	<b>Adhere to scope of practice and comply with ethical standards.</b>

### **Core Knowledge Items on the 2017 CET test plan that were not on the 2011 Test Plan**

The following statements do not represent standalone domains on the CET exam. Rather, these statements are fundamental knowledge for an EKG technician, which could be used in the context of an assessment item, and are being provided for preparation and review purposes.

1. Basic anatomy and physiology of the heart
2. Emergencies related to cardiac testing (e.g., syncope, chest pain, abnormal vitals)
3. Cardiopulmonary resuscitation and basic life support