

EKG Technician Skills Checklist

Instructions

- 1 - No Experience (Instruction only, no hands on experience.)
- 2 - Minimal Experience (Have experience but has performed procedure infrequently. Minimal assistance needed.)
- 3 - Experienced (Competent to perform the procedure, task, or skill independently.)
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| Cardiovascular Electrophysiology | Experience |
|--|------------|
| Cardiac Cycle | ① ② ③ ④ |
| Electrical Conduction System | ① ② ③ ④ |
| Refractory | ① ② ③ ④ |
| Transmembrane Potential: Polarization | ① ② ③ ④ |
| Transmembrane Potential: Depolarization | ① ② ③ ④ |
| Transmembrane Potential: Repolarization | ① ② ③ ④ |
| Action Potential: Phase 0 - Phase 4 | ① ② ③ ④ |
| EKG Interpretation | Experience |
| Ventricular Tachycardia | ① ② ③ ④ |
| Ventricular Fibrillation | ① ② ③ ④ |
| Atrial Tachycardia | ① ② ③ ④ |
| Atrial Fibrillation | ① ② ③ ④ |
| Atrial Flutter | ① ② ③ ④ |
| Junctional Escape Rhythms | ① ② ③ ④ |
| Asystole | ① ② ③ ④ |
| PEA (Pulseless Electrical Activity) | ① ② ③ ④ |
| Normal Sinus Rhythm | ① ② ③ ④ |
| Sinus Tachycardia | ① ② ③ ④ |
| Sinus Bradycardia | ① ② ③ ④ |
| Acute Myocardial Infarction Patterns | ① ② ③ ④ |
| Cardiac Pacemakers | ① ② ③ ④ |
| Wolff-Parkinson-White | ① ② ③ ④ |
| Heart Blocks: First Degree Heart Block | ① ② ③ ④ |
| Heart Blocks: Second Degree Heart Block: Type I | ① ② ③ ④ |
| Heart Blocks: Second Degree Heart Block: Type II | ① ② ③ ④ |
| Heart Blocks: Third Degree Heart Block | ① ② ③ ④ |
| ECG Techniques and Recognition | Experience |
| P, Q, R, S, and T Waves | ① ② ③ ④ |
| Baseline Values | ① ② ③ ④ |
| ECG Measurement: Time | ① ② ③ ④ |
| ECG Measurement: Heart Rate | ① ② ③ ④ |
| ECG Measurement: Voltage | ① ② ③ ④ |

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| ECG Techniques and Recognition | | Experience |
|---|--|------------|
| ECG Measurement: Axix/Hexaxial System | | ① ② ③ ④ |
| ECG Measurement: Intervals | | ① ② ③ ④ |
| ECG Measurement: Segments | | ① ② ③ ④ |
| ECG Measurement: Complexes | | ① ② ③ ④ |
| ECG Measurement: Normal and Abnormal ST Segment | | ① ② ③ ④ |
| Recognition of Recording Errors/Artifacts | | Experience |
| Incorrect Standardization | | ① ② ③ ④ |
| Incorrect Paper Speed | | ① ② ③ ④ |
| Lead Reversals | | ① ② ③ ④ |
| Incorrect Lead Placement | | ① ② ③ ④ |
| Electrical Interference | | ① ② ③ ④ |
| Somatic Tremor | | ① ② ③ ④ |
| Wandering Baseline | | ① ② ③ ④ |
| ECG, Holter, and Stress Testing Instrumentation | | Experience |
| ECG Calibration Methods | | ① ② ③ ④ |
| Single Channel | | ① ② ③ ④ |
| Three Channel | | ① ② ③ ④ |
| Stress Test Techniques and Contraindications | | Experience |
| Protocols: Bruce | | ① ② ③ ④ |
| Protocols: Modified Bruce | | ① ② ③ ④ |
| Protocols: Naught On | | ① ② ③ ④ |
| Prep Techniques | | ① ② ③ ④ |
| Test Interpretation | | ① ② ③ ④ |
| Calculation: Double Product | | ① ② ③ ④ |
| Bicycle Procedure | | ① ② ③ ④ |
| Ergometers: Arms | | ① ② ③ ④ |
| Ergometers: Leg | | ① ② ③ ④ |
| Ergometers: Treadmill | | ① ② ③ ④ |
| Pharmacologic: Dipryridamole | | ① ② ③ ④ |
| Pharmacologic: Dobutamine | | ① ② ③ ④ |
| Pharmacologic: Thallium | | ① ② ③ ④ |
| Pharmacologic: Cardiolyte | | ① ② ③ ④ |

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| Stress Test Techniques and Contraindications | Experience |
|---|------------|
| Holter Monitoring: Preparation Techniques | ① ② ③ ④ |
| Holter Monitoring: Lead Placement | ① ② ③ ④ |
| Holter Monitoring: Interpretation | ① ② ③ ④ |
| Holter Monitoring: Recognition of Artifact | ① ② ③ ④ |
| Cardiac Medications: Antihypertensives | ① ② ③ ④ |
| Cardiac Medications: Nitrates | ① ② ③ ④ |
| Cardiac Medications: Calcium Channel Blockers | ① ② ③ ④ |
| Cardiac Medications: Beta Blockers | ① ② ③ ④ |
| Cardiac Medications: Cardiac Glycosides | ① ② ③ ④ |
| Cardiac Medications: Antiarrhythmics | ① ② ③ ④ |
| Emergency Medications: Epinephrine | ① ② ③ ④ |
| Emergency Medications: Atropine | ① ② ③ ④ |
| Emergency Medications: Verapamil | ① ② ③ ④ |
| Emergency Medications: Lidocaine | ① ② ③ ④ |
| Emergency Medications: Oxygen | ① ② ③ ④ |
| Emergency Medications: Isuprel | ① ② ③ ④ |
| ECG Leads | Experience |
| Bipolar Leads | ① ② ③ ④ |
| Unipolar Leads | ① ② ③ ④ |
| Precordial Leads | ① ② ③ ④ |
| Einthoven's Triangle and Law | ① ② ③ ④ |
| Skin Preparation | Experience |
| Shaving | ① ② ③ ④ |
| Alcohol Prep | ① ② ③ ④ |
| Diaphoretic Patients | ① ② ③ ④ |
| Phlebotomy | Experience |
| Butterfly 'Stick' | ① ② ③ ④ |
| Vacutainer Method | ① ② ③ ④ |

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| Vital Signs | | Experience |
|-----------------------------------|--|--------------------------|
| Temperature: Oral | | ① ② ③ ④ |
| Temperature: Tympanic | | ① ② ③ ④ |
| Temperature: Axillary | | ① ② ③ ④ |
| Temperature: Rectal | | ① ② ③ ④ |
| SpO2 (Pulse Oximeter) | | ① ② ③ ④ |
| Pulse: Auscultation: Apical Pulse | | ① ② ③ ④ |
| Palpation: Carotid Pulse | | ① ② ③ ④ |
| Palpation: Brachial Pulse | | ① ② ③ ④ |
| Palpation: Radial Pulse | | ① ② ③ ④ |
| Palpation: Femoral Pulse | | ① ② ③ ④ |
| Blood Pressure: Automatic | | ① ② ③ ④ |
| Blood Pressure: Manual | | ① ② ③ ④ |
| JCAHO | | Experience |
| JCAHO National Safety Goals | | <input type="checkbox"/> |
| JCAHO Prohibited Abbreviations | | <input type="checkbox"/> |