

Training Program for ECG staff

Day 1: Introduction and Fundamentals

Morning Session: Understanding ECG Basics

1. **Welcome and Introduction (30 min)**
 - Overview of the training program
 - Goals and objectives
 - Icebreaker activity
2. **The Cardiovascular System (1 hour)**
 - Anatomy and physiology of the heart
 - Electrical conduction system of the heart
 - Introduction to cardiac cycles and heart rhythm
3. **Introduction to ECG (1.5 hours)**
 - Definition and purpose of an ECG
 - Basic principles of ECG: electrical activity, depolarization, and repolarization
 - Overview of ECG waveform components (P wave, QRS complex, T wave)
4. **Break (15 min)**
5. **ECG Lead Placement and Electrode Types (1 hour)**
 - Standard 12-lead ECG system and its components
 - Proper placement of electrodes and leads
 - Discussion on different types of electrodes and their uses

Lunch Break (1 hour)

Afternoon Session: Basic ECG Operation

1. **ECG Machine Operation (1.5 hours)**
 - Introduction to ECG machines: components and settings
 - Calibration and maintenance of ECG machines
 - Hands-on practice with ECG machines
2. **Reading and Interpreting Basic ECGs (1 hour)**
 - Identifying and measuring basic waveform components
 - Introduction to normal ECG patterns and intervals
3. **Break (15 min)**
4. **Practical Exercise (1 hour)**
 - Hands-on practice with ECG machines
 - ECG lead placement and recording
5. **Q&A and Recap (30 min)**
 - Review of key concepts
 - Open session for questions and clarification

Day 2: Advanced Concepts and Interpretation

Morning Session: Advanced ECG Interpretation

1. **Review of Day 1 and Introduction to Day 2 (30 min)**
 - Quick review of key concepts
 - Overview of advanced topics for the day
2. **ECG Rhythms and Arrhythmias (2 hours)**
 - Common arrhythmias: atrial fibrillation, ventricular tachycardia, etc.

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- Rhythm strip interpretation
- Clinical significance of various arrhythmias
- 3. **Break (15 min)**
- 4. **ECG Artifacts and Troubleshooting (1 hour)**
 - Types of ECG artifacts and their causes
 - Troubleshooting common issues
 - Best practices for minimizing artifacts

Lunch Break (1 hour)

Afternoon Session: Practical Skills and Application

1. **Hands-On ECG Interpretation (2 hours)**
 - Interactive ECG interpretation exercises
 - Case studies and real-life scenarios
 - Group discussions and problem-solving
2. **Break (15 min)**
3. **Introduction to Holter Monitoring (1 hour)**
 - Overview of Holter monitors and their applications
 - Basic principles of Holter monitoring and analysis
4. **Practical Exercise: ECG Interpretation (1 hour)**
 - Participants analyze ECG strips and identify arrhythmias
 - Discussion of findings and feedback

Day 3: Clinical Application and Professionalism

Morning Session: Clinical Application

1. **Review of Day 2 and Introduction to Day 3 (30 min)**
 - Quick review of advanced topics
 - Overview of clinical application and professionalism
2. **Patient Interaction and Communication (1 hour)**
 - Best practices for interacting with patients
 - Ensuring patient comfort and understanding
3. **ECG Documentation and Reporting (1.5 hours)**
 - Proper documentation of ECG findings
 - Reporting and communicating results to healthcare providers
4. **Break (15 min)**
5. **Case Study and Simulation (1.5 hours)**
 - Detailed case studies with simulated scenarios
 - Team-based approach to diagnosis and decision-making

Lunch Break (1 hour)

Afternoon Session: Evaluation and Feedback

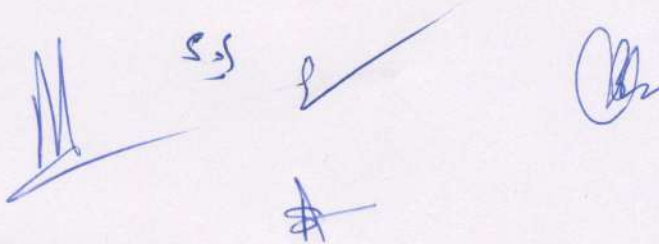
1. **Final Practical Assessment (1.5 hours)**
 - Comprehensive hands-on assessment covering lead placement, ECG recording, and interpretation

2. **Professional Development and Certification (30 min)**

- Overview of certification requirements and professional development opportunities
- Discussion of career pathways for ECG technicians

3. **Closing Remarks and Evaluation (30 min)**

- Final Q&A
- Feedback collection from participants
- Distribution of certificates of completion



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