# Fundamentals of 12-Lead ECG Acquisition and STEMI Recognition for Emergency Responders Syllabus

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| **Time Frame** | 2-3 hours, with additional time allocated for hands-on practice in small groups. Includes 1 hour of lecture, 1 hour of hands-on practice, and 30 minutes to 1 hour of assessments and Q&A sessions. |
| **Audience** | Primarily designed for BLS providers, this course also includes a module tailored for ALS providers to foster interdisciplinary collaboration. |
| **Synopsis** | This course integrates practical skills with real-world applications, offering emergency responders the knowledge to accurately acquire 12/15 lead ECGs and identify STEMI, significantly improving patient outcomes. Through interactive case studies and evidence-based practices, participants will learn the critical role of early diagnosis in the chain of survival. |
| **Overall Objective** | To equip healthcare providers with the necessary skills for effective 12/15 lead ECG acquisition and STEMI identification, emphasizing the direct impact on patient survival rates and highlighting the importance of swift, coordinated care delivery. |
| **Objectives** | By the end of the session the student will be able to:<br><br>1. Describe the process of coronary artery occlusion that leads to a myocardial infarction. (What)<br>2. Describe common signs and symptoms and risk factors for AMI. (Who)<br>3. Describe the value of early 12/15 lead ECG acquisition as it relates to the 3 Keys to quality STEMI systems of care. (Recognition, Activation, Intervention) (Why)<br>4. Describe or demonstrate proper site preparation, lead placement location and validation of a 12/15 lead ECG. (How)<br>5. Give a 12/15 lead ECG and using a simple algorithm, recognize ECG evidence of STEMI. (recognition)<br>6. Identify and correct common artifacts and errors in ECGs, enhancing accuracy in readings and troubleshooting skills. |
| **Core Skills** | • Proper Skin Preparation<br>• Correct Lead Placement for a *diagnostic* 12 Lead<br>• Validation Technique<br>• Individual machine competency (Local area)<br>• STEMI / No STEMI recognition<br>• Effective Communication with Receiving Facilities<br>• Best Practices in ECG Documentation and facilitating seamless patient handovers. |
| **Methodology** | The course methodology is enriched with interactive case studies, simulations, and practical exercises, alongside traditional lectures and multimedia presentations, to ensure a comprehensive learning experience. |

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