

# EMERGENCY MEDICAL TECHNICIAN



**Approved by  
Govt. of West Bengal  
An Initiative of Department of  
Youth Services, Govt. of West Bengal**

Run by :



**I·R·H·C  
INSTITUTE OF  
RURAL HEALTH CARE**

# **EMERGENCY MEDICAL TECHNICIAN**

**Course Name** : Emergency Medical Technician

**Course Duration** : 12 months

## **Introduction**

### **EMERGENCY MEDICAL TECHNICIAN**

Emergency Medical Technician (EMT) is a crucial profession in the healthcare field, responsible for providing emergency medical care to critically ill or injured patients. EMTs are the first responders who arrive at the scene of an emergency, and their rapid assessment and intervention can be the difference between life and death for a patient. As such, EMTs require a comprehensive education and training in emergency medical care, including the ability to perform life-saving interventions, such as cardiopulmonary resuscitation (CPR), managing airways, controlling bleeding, and administering medications.

The EMT course is designed to provide students with the knowledge, skills, and practical experience necessary to become competent and confident EMTs. The course covers a wide range of topics, including anatomy and physiology, medical terminology, patient assessment, basic and advanced life support techniques, and emergency management. Students will also learn about legal and ethical considerations, patient communication, and infection control. The course typically involves both classroom instruction and hands-on training in a clinical setting, such as an ambulance or emergency department.

Upon completion of the EMT course, students are eligible to take the National Registry of Emergency Medical Technicians (NREMT) certification exam, which is required for EMT licensure in most states. EMTs may work in a variety of settings, including ambulance services, fire departments, hospitals, and urgent care centers. The role of an EMT is demanding and requires the ability to think quickly, work under pressure, and maintain composure in high-stress situations. However, for those with a passion for helping others and a desire to make a meaningful difference in people's lives, a career as an EMT can be incredibly rewarding.

### **Desirable and Benefits of Emergency Medical Technician**

An EMT provides emergency onsite medical care and transportation for critically injured or ill individuals who require immediate medical assistance. Making sure every second counts, EMTs perform this basic and critical medical care out of an ambulance, using the tools and resources available within it.

Within the emergency medical technician job description, the goal of an EMT is to stabilize an individual and safely transport them to a medical facility that can further assist the patient. To ensure they provide the best possible care, though, EMTs typically work in pairs or teams with other EMTs rather than on their own. A paramedic is an advanced EMT who has received additional training and is qualified to perform more complex procedures.

Typical duties and responsibilities of an EMT include:

- Provide basic first-aid treatment as needed
- Respond appropriately to emergency calls
- Assess a person's condition and know how to provide proper medical care
- Put together an initial plan of care to quickly stabilize an individual in distress
- Provide life-saving medical interventions like CPR
- Determine where to transport a patient for continuing care
- Communicate clearly and effectively with other first responders and emergency medical staff, and personnel
- Maintain 12-hour shift schedules and on-call hours
- Document medical care given to patients
- Report patient observations to appropriate medical professionals

While most EMTs drive and operate out of ambulances, some may also work out of other vehicles like helicopters or airplanes. Typically, though, airborne EMS professionals are paramedics rather than EMTs.

**SYLLABUS:**  
**TOTAL COURSE DURATION: 360 HOURS**

**MODULE 1: INTRODUCTION TO EMERGENCY MEDICAL SERVICES (EMS) (20 HOURS)**

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|--|------|
| i. Overview of EMS systems               | 5hrs |
| ii. Roles and responsibilities of EMTs   | 5hrs |
| iii. Legal and ethical considerations    | 5hrs |
| iv. Patient assessment and documentation | 5hrs |

**Module 2: Anatomy and Physiology (40 hours)**

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|--|-------|
| i. Human body systems and their functions      | 14hrs |
| ii. Basic medical terminology                  | 14hrs |
| iii. Common medical conditions and emergencies | 12hrs |

**Module 3: Airway and Breathing (40 hours)**

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|---|-------|
| i. Airway management techniques                           | 10hrs |
| ii. Oxygen therapy  | 10hrs |
| iii. Basic respiratory anatomy and physiology             | 10hrs |
| iv. Recognition and management of respiratory emergencies | 10hrs |

**Module 4: Cardiology (40 hours)**

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|---|-------|
| i. Basic cardiac anatomy and physiology               | 12hrs |
| ii. Recognition and management of cardiac emergencies | 14hrs |
| iii. Electrocardiogram (ECG) interpretation           | 14hrs |

**Module 5: Medical Emergencies (60 hours)**

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|---|-------|
| i. Common medical emergencies, such as stroke, seizures<br>and diabetes | 20hrs |
| ii. Assessment and management of medical emergencies                    | 20hrs |
| iii. Pharmacology and administration of medications                     | 20hrs |

**Module 6: Trauma Emergencies (80 hours)**

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|--|-------|
| i. Trauma assessment and management                  | 20hrs |
| ii. Bleeding control and shock management            | 20hrs |
| iii. Head and spinal injuries                        | 20hrs |
| iv. Extremity injuries and immobilization techniques | 20hrs |

### **Module 7: Obstetrics and Pediatrics (20 hours)**

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|--|------|
| i. Childbirth and neonatal resuscitation           | 7hrs |
| ii. Pediatric assessment and management            | 7hrs |
| iii. Special considerations for pediatric patients | 6hrs |

### **Module 8: Operations (20 hours)**

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|---------------------------------------|------|
| i. EMS systems and response models    | 6hrs |
| ii. Ambulance operations and safety   | 6hrs |
| iii. Communications and documentation | 8hrs |

### **Module 9: Special Situations (20 hours)**

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|---|------|
| i. Special rescue situations, such as water rescues<br>and high-angle rescues | 7hrs |
| ii. Hazardous materials awareness   | 6hrs |
| iii. Mass casualty incidents and disaster preparedness                        | 7hrs |

### **Module 10: Clinical and Field Internship (20 hours)**

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|--|-------|
| i. Clinical observation and practice in a healthcare setting | 10hrs |
| ii. Field internship with an ambulance service or hospital   | 10hrs |

## **JOB OPPORTUNITY**

After meeting the requirements to work as an EMT in your state, it's now time to apply for EMT jobs in your area. Your resume should include details about your EMT program, certification, and any additional training and certifications you've gained. Be sure to highlight skills that would make you a successful EMT and have a few references who can speak to those skills. You might be surprised at how many opportunities there are to work as an EMT in your community, including at:

- Hospitals
- Surgery centers
- Private ambulance services
- Fire departments
- Police departments
- Colleges and universities

- Large hotels
- Amusement parks
- National parks

Consider where you'd like to work and if there's a specific population you'd like to work with. For example, if you enjoy working with older people, you might try to apply for an EMT position that serves local nursing homes.

### **Minimum Eligibility**

The minimum qualification for admission is class 10<sup>th</sup> Passed from any recognized board in India.