

EMS Course Requirements

The following outlines should be followed when creating your course syllabi. The minimum course hours must be met, but they can be exceeded depending on the needs of your class. These times include skills labs and lecture, but competency based sections have no time recommendations. These should be scheduled based upon the competency of individual students, but you must account for them (estimates where needed) in your course syllabus for approval.

Below are the course requirements for:

- Emergency Medical Responder
- Emergency Medical Technician
- Advanced Emergency Medical Technician
- Paramedic

EMR Course

The Emergency Medical Responder Course must have a minimum course time of 50.5 hours. 44.5 hours are core National Education Standards (NES) curricula and the remaining 6 hours are Indiana required added curriculum. **(See EMR Hours PDF)**

The following skills must be taught and verified in the EMR course:

- Oral airway
- BVM
- Sellick's Maneuver
- Head-tilt chin lift
- Jaw thrust
- Modified chin lift
- Obstruction—manual
- Oxygen therapy
- Nasal cannula
- Non-rebreather face mask
- Upper airway suctioning
- Manual BP
- Unit dose auto-injectors for self or peer care (MARK I)
- Eye irrigation
- Hemorrhage control
- Wound packing
- Use of hemostatic gauze
- Emergency moves for endangered patients
- CPR
- AED
- Assisted normal delivery child birth
- ***Proper use of Tourniquets***
- ***Proper use of Cervical Collars***
- ***Proper use of Long Spine Board and Spinal Immobilization***
- ***Proper use of Pulse Ox/Carbon Monoxide monitoring***
- ***Additional modules assigned by the Indiana EMS Commission if required beyond the standard curriculum***

Individuals certified as Emergency Medical Responders must complete and report 20 hours of continuing education every two years in order to remain certified.

Emergency Medical Responder		Minimum Times per Section
		Skills time included in each section
Section 1. Preparatory		5.5
Section 2. Anatomy and Physiology		2
Section 3. Medical Terminology		0.5
Section 4. Pathophysiology		0.5
Section 5. Lifespan Development		1
Section 6. Public Health		0.5
Section 7. Pharmacology		0.5
Section 8. Airway/Respiratory/Ventilation		2.5
Section 9. Assessment		2.5
Section 10. Medicine		8
Section 11. Shock and Resuscitation		4
Section 12. Trauma		7.5
Section 13. Special Patient Populations		6.5
Section 14. EMS Operations		3
	Total NES Core Hours	44.5
Section 15. Indiana Added Curriculum		
A. Indiana Driving Laws		1
B. Autism Awareness		Satisfied in NES
C. SIDS		Satisfied in NES
D. HazMat Awareness		4
E. Terrorism Response and Disaster Management	AWR-160 satisfies	Satisfied in NES
F. Cervical Collar		competency based
G. Long Back Board		competency based
H. POST/Advance Directives		1
I. Pulse Oximetry/CO Monitoring		competency based
	Total Indiana Hours	6
http://www.ems.gov/pdf/811077b.pdf	Total Minimum Course Hours	50.5

EMT Course

The Emergency Medical Technician Course must have a minimum course time of 159 hours. 138 hours are core National Education Standards (NES) curricula, 16 hours are Indiana mandated field hours (hospital and ambulance), and the remaining 5 hours are Indiana required additional curriculum. 8 of the 165 hours can be substituted for NIMS IS 100, 200, 700, and 800 (see EMT Hours PDF). If you have students who are current EMRs, they are not required to repeat the additional Indiana added curriculum unless mandated by your training institution. (See **EMT Hours PDF**)

The following skills must be taught and verified in the EMT course:

All skills of EMR (above) plus:

- Humidifiers
- Partial rebreathers
- Venturi mask
- Manually Triggered Ventilator (MTV)
- Automatic Transport Ventilator (ATV)
- Oral and Nasal airways
- Manual and auto BP

Assisted Medications

- Assisting a patient in administering his/her own prescribed medications, including auto-injection

Technician Medicine Administration

- -Buccal
- -Oral
- IM Epinephrine
- PHYSICIAN-approved over-the-counter medications (oral glucose, ASA for chest pain of suspected ischemic origin)

Trauma Care

- Seated spinal immobilization
- Traction splinting
- Mechanical pt restraint
- MAST/PASG
- Rapid extrication
- Wound packing and hemostatic bandaging

Cardiac Care

- Mechanical CPR
- Assisted complicated delivery
- *Additional module on Esophageal, Tracheal, Multi-Lumen, and Supraglottic Airway*
- *Additional Module on Suicide Prevention*
- *Additional modules assigned by the Indiana EMS Commission if required beyond the standard curriculum*

- Students should observe emergency department operations for a period of time sufficient to gain an appreciation for the continuum of care. **Students must perform 10 patient assessments.** These can be performed in an ED, ambulance, clinic, nursing home, doctor's office, or on standardized patients if clinical settings are not available.

- **8 hours ambulance ride time**



- **8 hours hospital time**

Emergency Medical Technicians must complete 40 hours of didactic continuing education plus skills verification every two years in order to remain certified.

Emergency Medical Technician		Minimum Times per Section
		Skills time included in each section
Section 1. Preparatory		11
Section 2. Anatomy and Physiology		5
Section 3. Medical Terminology		1
Section 4. Pathophysiology		5
Section 5. Lifespan Development		1.5
Section 6. Public Health		0.5
Section 7. Pharmacology		3
Section 8. Airway/Respiratory/Ventilation		5
Section 9. Assessment		5
Section 10. Medicine		33
Section 11. Shock and Resuscitation		4
Section 12. Trauma		25
Section 13. Special Patient Populations		19
Section 14. EMS Operations		20
ICS courses (100, 200, 700, and 800)		
If completed, subtract 8 hours from operations		
		Total NES Core Hours
		138
Section 15. Patient Contacts (10)		
Section 16. Ambulance Field Internship		8
Section 17. Hospital Clinical Internship		8
Section 15. Indiana Added Curriculum		
A. Indiana Driving Laws		1
B. Autism Awareness		Satisfied in NES
C. SIDS		Satisfied in NES
D. Blood Glucose Monitoring		Competency Based
E. Epinephrine IM For EMT		Competency Based
E. HazMat Awareness		4
F. Terrorism Response and Disaster Management	AWR-160 satisfies	Satisfied in NES

G. Esophageal, Tracheal, Multi-Lumen, and Supraglottic Airway		Competency Based
H. Peripheral IV Maintenance		Competency Based
I. POST/Advance Directives/Suicide Prevention		2
	<i>Total Indiana Hours</i>	7

AEMT Course

The Advanced Emergency Medical Technician Course must have a minimum course time of 160 hours (See **AEMT Hours PDF**). Students must satisfy the hospital and clinical skills requirement, but hours are not assigned as times will be based upon individual student competency.

The following skills must be taught and verified in the AEMT course:

- Peripheral IV insertion
- IV fluid infusion
- IO
- Tracheobronchial suctioning of the already intubated patient

Technician of Medicine Administration

- Aerosolized
- Subcutaneous
- Intramuscular
- Nebulized
- Sublingual
- Intranasal
- IV push of D50 and narcotic antagonist only

Administered Meds

- SL Nitroglycerine for chest pain of suspected ischemic origin
- SQ or IM epinephrine for anaphylaxis
- glucagon and IV D50 for hypoglycemia
- Inhaled beta agonist for dyspnea and wheezing
- Narcotic antagonist
- Nitrous oxide for pain relief
- ***Additional module on Adult IO***
- ***12-lead Application and Transmission ONLY***
- ***Additional modules assigned by the Indiana EMS Commission if required beyond the standard curriculum***

Students must also complete the following hospital and clinical experience:

- Properly **administer medications to at least 15 live patients**
- Successfully **perform all steps and access venous circulation at least 25 times on live patients** of various age groups
- **Ventilate at least 20 live patients** of various age groups
- Demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with **chest pain**
- Demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with **respiratory distress**
- Demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with **altered mental status**
- Demonstrate the ability to perform an adequate assessment on **pediatric, adult, and geriatric** patients

AEMT Students must complete 54 hours of didactic continuing education plus skills verification every two years in order to remain certified.

Advanced Emergency Medical Technician	Minimum Times per Section Skills time included in each section
Section 1. Preparatory	10
Section 2. Anatomy and Physiology	8
Section 3. Medical Terminology	2
Section 4. Pathophysiology	8
Section 5. Lifespan Development	0.5
Section 6. Public Health	0.5
Section 7. Pharmacology	30
Section 8. Airway/Respiratory/Ventilation	4
Section 9. Assessment	6
Section 10. Medicine	30
Section 11. Shock and Resuscitation	4
Section 12. Trauma	24
Section 13. Special Patient Populations	21
Section 14. EMS Operations	12
	Total NES Hours
	160
Section 15. Properly administer medications to at least 15 live patients	
Section 16. Successfully perform all steps and access venous circulation at least 25 times on live patients of various age groups	
Section 17. Ventilate at least 20 live patients of various age groups	
Section 18. Demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with chest pain	
Section 19. Demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with respiratory distress	
Section 20. Demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with altered mental status	
Section 21. Demonstrate the ability to perform an adequate assessment on pediatric, adult, and geriatric patients	
Section 22. Indiana Added Curriculum	
A. Adult IO	Competency Based
B. 12-Lead EKG Acquisition and Transmission	

	<i>Didactic</i>	2.5
http://www.ems.gov/pdf/811077d.pdf	<i>Laboratory</i>	Competency Based
	<i>Total Indiana Added Hours</i>	2.5
	<i>Total Minimum Course Hours</i>	162.5

Paramedic Course

The Paramedic must have a minimum course time of 452 hours. (See **Paramedic Hours PDF**)

The following skills must be taught and verified in the Paramedic course:

All skills of AEMT (above) plus:

- BiPAP/CPAP
- Needle chest decompression
- Chest tube monitoring
- Percutaneous cricothyrotomy²
- ETCO₂/Capnography
- NG/OG tube
- Nasal and oral Endotracheal intubation
- Airway obstruction removal by direct laryngoscopy
- PEEP
- EKG interpretation
- Interpretive 12 Lead
- Blood chemistry analysis
- Tracheobronchial Suctioning

Technician of Medicine Administration

- Endotracheal
- IV (push and infusion)
- NG
- Rectal
- IO
- Topical
- Accessing implanted central IV port

Administered Meds

- Physician-approved medications
- Maintenance of blood administration
- Thrombolytics initiation

Trauma Care

- Morgan lens

Cardiac Care

- Cardioversion
- Carotid massage
- Manual defibrillation
- TC pacing
- **Additional modules assigned by the Indiana EMS Commission if required beyond the standard curriculum**
 - These modules would exceed the National Education Standards set by NHTSA

Students must also complete the following hospital and clinical experience:

- No fewer than fifty (50) attempts at airway management across all age levels, with a 90% success rate utilizing endotracheal intubation in their last ten (10) attempts.
- Must be 100% successful in the management of their last 20 attempts at airway management.
- Clinical experience **must** include the operating room, recovery room, ICU, coronary care department, labor and delivery room, pediatrics, and ER.
- All students must have adequate exposure, as determined by the program medical director and advisory committee, to pediatric, obstetric, psychiatric, and geriatric patients.
- All students must complete a **Field Internship** and successfully manage, assess, and treat patients. **Minimum Team Leads** must be established by the program medical director and advisory committee and be completed by every student.
- Total course hours including lecture, skills, and internships should range between 1000 and 1300 Total hours.

Paramedic Students must complete 72 hours of didactic continuing education plus skills verification every two years in order to remain certified.