

Required Minimum Equipment List for EMS Education Programs

This document lists the minimum equipment required for EMS initial education programs. Equipment that is optional is noted as such. Each level of instruction must possess the minimal equipment needs for the students to meet each stated objective. Additional resources may be needed from outside sources, but it is the instructor's responsibility to ensure that appropriate equipment is available for the number of students enrolled in the program. When instructors are teaching a skill/procedure to the students, the required 6:1 ratio of students to instructors must be met. Each lab session should have sufficient equipment (and related supplies) available so that each student group (6 or less students) has access to the needed equipment/supplies necessary for the skill(s) they are learning.

Key to Provider Levels		
EMR	R	Emergency Medical Responder
EMT	E	Emergency Medical Technician
AEMT	A	Advanced Emergency Medical Technician
PMDC	P	Paramedic
CCP	CC	Critical Care Paramedic

NOTE: If a provider code (the single letter code from the table above) is listed for a piece of equipment, then initial education programs for that level of EMS Provider are required to have the listed equipment. Notes may indicate that a specific piece of equipment is optional or may clarify the equipment description.

If a letter code contains an asterisks (*) programs should either own or have an agreement to use the equipment during the appropriate portions of the initial education.

Facility			Levels					Notes
1. Equipment								
	a.	Obvious safety issues or concerns with the building	R	E	A	P	CC	That would affect the learning environment
	b.	A/V equipment	R	E	A	P	CC	Ability to use PowerPoint presentations, TV, Projector, etc.
	c.	Internet access for the instructor	R	E	A	P	CC	
	d.	Ability to create and distribute handouts in an electronic or printed format	R	E	A	P	CC	
	e.	GEMSIS Elite account and sufficient knowledge of the system	R	E	A	P		
	f.	Medication administration supplies	R	E	A	P	CC	

Required Minimum Equipment List for EMS Education Programs

Facility			Levels					Notes
2. Space								
	a.	Space to secure/lock student records	R	E	A	P	CC	Can include a locked filing cabinet or locked room
	b.	Ability to securly destroy student personal information	R	E	A	P	CC	
3. Storage								
	a.	Safe storage space for supplies/equipment	R	E	A	P	CC	Can include a locked room or an area safe from falling equipment/shelving
	b.	Sufficient lab space for the number of students	R	E	A	P	CC	Average 30 sq ft per student
	c.	Sufficient classroom space for the number of students	R	E	A	P	CC	Average 30 sq ft per student

General Equipment/Supplies		Levels					Notes
1. Equipment							
	a.	gloves - assorted (all sizes) (nitrile)	R	E	A	P	
	b.	face and eye protection	R	E	A	P	
	c.	HEPA/N95 masks	R	E	A	P	
	d.	gowns - assorted sizes	R	E	A	P	
	e.	high visibility vests	R	E	A	P	
	f.	waterless hand cleaner	R	E	A	P	
2. Communication/Documentation Equipment							
	a.	portable radios (two-way)		E	A	P	A minimum of 2 per location
	b.	ambulance patient care reports (PCR's)		E	A	P	Minimum per the SMC document for each level
3. Manikins/Simulators (some commercial devices may have multiple functions)							
	a.	airway manikins - (infant, child, and adult sizes)	R	E	A	P	CC
	b.	CPR manikins (infant, child, and adult sizes)	R*	E*	A*	P*	Must meet American Heart Association (AHA) standards.
	c.	cricothyrotomy simulator				P	CC At least 1 per location
	d.	IV simulation arms			A	P	CC

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General Equipment/Supplies			Levels				Notes	
3. Manikins/Simulators (some commercial devices may have multiple functions)								
	e.	intraosseous simulation (adult and pediatric)			A	P	CC	
	f.	pediatric IV simulator			A	P	CC	
	g.	childbirth simulator	R*	E*	A*	P*		
	h.	fetal monitoring					CC	Can be simulation software
	i.	balloon pump simulator					CC	Can be simulation software
	j.	ECMO simulator					CC	Can be simulation software
	k.	POCUS simulator					CC	Can be simulation software
	l.	defibrillation/cardioversion/pacing manikins				P	CC	
	m.	IM/SQ injection simulator			A	P		
	n.	chest decompression simulator				P	CC	At least 1 per location
	o.	finger thoracostomy simulator					CC	
	p.	trauma manikin	R	E	A	P	CC	At least 1 per location. Full Body Manikin that can be moulaged to simulate injuries.
	q.	wound packing manikin or simulator	R	E	A	P		This may be non-commercially made, as long as it provides a realistic wound channel and progressive bleeding management.
4. Miscellaneous Equipment								
	a.	football helmet and shoulder pads	R*	E*	A*	P*		At least 1 per location
	b.	blankets	R	E	A	P		
	c.	cold and hot chemical packs	R	E	A	P		
	d.	nonporous infant insulating devices, foil swaddler or equivalent	R	E	A	P		
	e.	flashlight	R	E	A	P		
	f.	jump kit (complete)	R	E	A	P	CC	This should be stockedd with equipment consistent with the level of provider being taught
	g.	motorcycle helmet (open and closed)	R	E	A	P		
	h.	EMS stretcher with straps to include shoulder harness	R*	E	A	P		

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General Equipment/Supplies			Levels				Notes	
	i.	EMS cot Pediatric Restraint System	R*	E	A	P	1 per location. A restraining device that is designed and designated for use on a cot in an ambulance.	
	j.	pediatric device	R	E	A	P	This may be a child's car seat.	
	k.	pillow	R	E	A	P		
	l.	stair chair		E*	A*	P*		
	m.	irrigation fluid (may be expired)	R	E	A	P		
	n.	linen (towels, sheets)	R	E	A	P		
	o.	disaster/triage tags	R	E	A	P	1 set per location	
	p.	Morgan Lens				P		
	q.	anatomical charts/models	R	E	A	P	This should include a sample of major organs/systems as well as body systems.	
	r.	moulage kit	R	E	A	P	1 commercial or non-commercial moulage kit per site	
Assessment Equipment			Levels				Notes	
1. Basic Assessment Equipment								
	a.	aneroid sphygmomanometer with pediatric, adult, and obese size cuffs	R	E	A	P	CC	
	b.	stethoscope	R	E	A	P	CC	Programs should also have training stethoscopes.
	c.	penlight		E	A	P	CC	
	d.	thermometer		E	A	P	CC	This should be a non-mercury thermometer
2. Advanced Assessment Equipment								
	a.	glucose monitoring device with strips and lancets		E	A	P	CC	
	b.	pulse oximeter		E	A	P	CC	Programs must have portable SpO2. The SpO2 on a cardiac monitor does not meet this requirement

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Airway and Breathing Equipment			Levels					Notes
1. Supplemental Oxygen Therapy								
	a.	high concentration oxygen mask - non rebreather (adult and pediatric)	R	E	A	P	CC	
	b.	nasal cannula (adult and pediatric)	R	E	A	P	CC	
	c.	simple mask (adult and pediatric)		E	A	P	CC	
	d.	venturi mask		E	A	P	CC	
	e.	nebulizer (mask and hand-held device)		E	A	P	CC	
	f.	oxygen supply tubing	R	E	A	P	CC	
	g.	oxygen humidification device		E	A	P	CC	Optional (may used nebulizer to humidify oxygen)
	h.	portable oxygen tank with regulator		E	A	P	CC	
2. Basic Airway Management								
	a.	oropharyngeal airways (infant, child and adult sizes)	R	E	A	P	CC	
	b.	nasopharyngeal airways (infant, child, and adult sizes)	R	E	A	P	CC	
	c.	tongue depressor		E	A	P	CC	
3. Ventilation Management								
	a.	mouth to barrier device (i.e. face-shield, pocket mask)	R	E	A	P		
	b.	bag-valve mask resuscitators (infant, child and adult sizes)	R	E	A	P	CC	
	c.	automatic transport ventilator		E*	A*	P*		For EMT/AEMT, ventilator should only adjust rate/volume
	d.	advanced transport ventilator					CC	Can be simulation software
4. Suctioning								
	a.	suction tubing	R	E	A	P	CC	
	b.	suction tubing - soft (various sizes)	R	E	A	P	CC	
	c.	suction tubing - rigid	R	E	A	P	CC	
	d.	suction unit - battery powered	R	E	A	P	CC	
	e.	suction unit - manually operated (i.e. v-vac)	R	E	A	P	CC	
	f.	bulb syringe	R	E	A	P	CC	

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Airway and Breathing Equipment			Levels				Notes	
5. Advanced Airway Management								
	a.	CPAP system (disposable or CPAP generator with circuits)		E	A	P	CC	
	b.	Blind Insertion Airway Devices (BIAD) - multiple types (i.e. Combitube, King LT, iGel)			A	P	CC	
	c.	endotracheal tube holders (various commercial types)			A	P	CC	Tube holders should also be used to show AEMTs how to properly secure a BIAD.
	d.	laryngoscope handles (adult and pediatric sizes)				P	CC	
	e.	laryngoscope blades - assorted - straight (size 0-4)				P	CC	
	f.	laryngoscope blades - assorted - curved (size 0-4)				P	CC	
	g.	endotracheal stylettes (adult and pediatric sizes)				P	CC	
	h.	esophageal intubation detector (bulb or syringe)				P	CC	
	i.	endotracheal tubes (sizes from 2.5mm to 9.0mm)				P	CC	
	j.	Magill forceps (adult and pediatric sizes)				P	CC	
	k.	video laryngoscope				P	CC	
	l.	waveform capnography for intubated and non-intubated patients			A	P	CC	
	m.	capnometry/color-metric CO2 device			A	P	CC	
	n.	PEEP valves				P	CC	
	o.	cricothyrotomy set				P	CC	Commercial or non-commercial
	p.	gastric tubes				P	CC	Tubes used for placing a naso-/oro-gastric tube.
	q.	water-based lubricant		E	A	P	CC	
	r.	chest decompression set/asherman seal				P	CC	
	s.	bougie (adult and pediatric sizes)				P	CC	

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Pharmacology Intervention Equipment			Levels					Notes
1. Fundamental Pharmacology Equipment								
	a.	unit dose/auto-injector trainers	R	E	A	P		
	b.	assortment of over-the-counter medications		E	A	P		Such as aspirin, acetaminophen, Motrin, oral glucose
2. Advanced Pharmacological Equipment: Venipuncture/Vascular Access								
	a.	blood collection tubes and supplies (may be expired)			A	P	CC	This would include a vacutainer tube holder and needles.
	b.	IV catheters - assorted sizes and types			A	P	CC	
	c.	IV administration sets (macro and micro)			A	P	CC	Should also include blood administration tubing
	d.	IV hangers/IV pole			A	P	CC	
	e.	butterfly needles - assorted sizes			A	P	CC	
	f.	intraosseous needles - various sizes and manufactures			A	P	CC	Must include adult and pediatric IO devices.
	g.	venous constricting bands (tourniquets)			A	P	CC	
	h.	three-way stopcocks			A	P	CC	
	i.	INT injection caps or saline locks			A	P	CC	
	j.	sharps containers			A	P	CC	
	k.	pressure infusion bags			A	P	CC	
	l.	aseptic technique pads (i.e. alcohol, betadine, chloraprep)			A	P	CC	
	m.	blood or blood product infuser					CC	
3. Equipment for the Administration of Medications/Fluids								
	a.	crystalloid IV fluids (may be expired)			A	P		
	b.	aerosol bronchodilators - may be commercial simulations (MDI		E	A	P		MDI with spacers are also recommended.
	c.	aerosol bronchodilators - may be commercial simulations (prefilled doses for nebulizing)		E	A	P		
	d.	medications utilized in training for each scope of practice - may be commercial simulations	R	E	A	P	CC	

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Pharmacology Intervention Equipment			Levels			Notes		
3. Equipment for the Administration of Medications/Fluids								
	e.	prefilled syringed, vials, ampules, etc.			A	P	CC	May be expired medications or commercial replicas. Medications should be appropriate to the scope of practice for that provider level.
	f.	syringes - various volumes			A	P	CC	May have ones with or without syringes or an assortment.
	g.	needles for syringes - various gauges			A	P	CC	
	h.	mucosal atomization device		E	A	P		
	i.	EpiPen trainer	R	E	A	P		
	j.	medication tablets - may be commercial simulations		E	A	P		May be expired medications or commercial replicas. Medications should be appropriate to the scope of practice for that provider level.
	k.	medication labels			A	P	CC	For medications added to IV fluids.
	l.	various examples of needles used to access implanted central IV ports				P	CC	Must include Huber needle. Others may be optional.

Cardiac Equipment			Levels				Notes
1. Fundamental Cardiac Equipment							
	a.	AED trainer (with pads)	R*	E*	A*	P*	Must meet American Heart Association standards.
2. Advanced Cardiac Equipment							
	a.	mechanical CPR assist device		E*	A*	P*	
	b.	cardiac monitor (capable of defibrillation, cardioversion, pacing) with electrodes and/or paddles				P	CC
	c.	12 lead acquisition devices (may be incorporated into the cardiac monitor)		E	A	P	CC
	d.	dysrhythmia generator capable of 12 lead ECG generation		E	A	P	CC

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Medical Equipment				Levels					Notes	
1. Emergency Childbirth Management										
	a.	OB kit		R	E	A	P	CC		
2. Behavioral Emergency Equipment										
	a.	soft/disposable or leather restraints			E	A	P			

Trauma Care Equipment			Levels					Notes	
1. Equipment for Splinting/Immobilization									
	a.	splints - rigid and soft (various types and sizes)	R	E	A	P			
	b.	cervical collars - assorted sizes or adjustable (adult and pediatric)	R	E	A	P			
	c.	head stabilization devices (various types)		E	A	P			
	d.	long back boards		E	A	P			
	e.	immobilization straps (various sizes and types)		E	A	P			
	f.	scoop stretcher		E	A	P			
	g.	short immobilization device (vest type)		E	A	P			
	h.	pediatric immobilization device		E	A	P			
	i.	traction splint - various types (adult and pediatric)		E	A	P			
2. Equipment/Supplies for Bandaging/Dressing									
	a.	abdominal pad	R	E	A	P			
	b.	elastic bandage (various sizes)	R	E	A	P			
	c.	rolled gauze	R	E	A	P			
	d.	burn sheet (sterile) or clean sheets	R	E	A	P			
	e.	gauze pads (sterile and non-sterile)	R	E	A	P			
	f.	multi-trauma dressing	R	E	A	P			
	g.	trauma scissors	R	E	A	P			
	h.	sterile eye pads	R	E	A	P			
	i.	triangular bandages	R	E	A	P			
	j.	petroleum gauze	R	E	A	P			
	k.	tape (various sizes 1" to 3")	R	E	A	P			
	l.	commercial arterial tourniquet	R	E	A	P			