



INDEX	R-T-11-A
EFFECTIVE	7/1/2011
LAST REVIEW	7/1/2011
PAGES	6
VERSION	2011

Minimum Equipment Required for Initial 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

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.

General Equipment/Supplies		Levels	NOTES
1.	Personal Protection Equipment		
	a. gloves - assorted (all sizes) (latex and latex-free)	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. escape hoods/PAPR's	R E A P	1 per institution.
	g. waterless hand cleaner	R E A P	
2.	Communication/Documentation equipment		
	a. portable radios (two-way)	R E A P	A minimum of 2 per institution.
	b. ambulance patient care reports (PCR's)	R E A P	This could include online/computer based documentation tools.

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General Equipment/Supplies		Levels				NOTES
3.	Manikins/Simulators (some commercial devices may have multiple functions)					
a.	airway manikins - (infant, child, and adult sizes)	R	E	A	P	
b.	CPR manikins (infant, child, and adult sizes)	R	E	A	P	
c.	cricothyrotomy simulator				P	1 per institution.
d.	IV simulation arms			A	P	
e.	intraosseous simulator (adult and pediatric)			A	P	
f.	pediatric IV simulator			A	P	
g.	childbirth manikin	R	E	A	P	
h.	defibrillation/ cardioversion / pacing manikins				P	
i.	IM / sub q injection simulator			A	P	
j.	chest decompression simulator				P	1 per institution.
k.	trauma manikin	R	E	A	P	At least 1 per institution.
4.	Miscellaneous equipment					
a.	aluminum foil	R	E	A	P	
b.	football helmet	R	E	A	P	1 per institution.
c.	blankets	R	E	A	P	
d.	cold and hot chemical packs	R	E	A	P	
e.	cotton swabs	R	E	A	P	
f.	emesis container	R	E	A	P	
g.	flashlight	R	E	A	P	
h.	jump kit (complete)	R	E	A	P	This should be stocked with equipment consistent with the level of provider being taught.
i.	motorcycle helmet (open and closed)	R	E	A	P	1 of each per institution.
j.	EMS stretcher w/ straps to include shoulder harness	R	E	A	P	EMT, AEMT, and Paramedic programs should own a stretcher. EMR programs should either own, or have an agreement to use, a stretcher during the appropriate portions of the initial education.
k.	EMS cot pediatric device		E	A	P	1 per institution. This can be a infant/child safety seat.
l.	pillow	R	E	A	P	
m.	stair chair		E	A	P	Programs should either own, or have an agreement to use, a stair chair during the appropriate portions of the initial education.
n.	tongue depressor	R	E	A	P	
o.	irrigation fluid (may be expired)	R	E	A	P	
p.	linen (towels, sheets)	R	E	A	P	
q.	anatomical charts/models	R	E	A	P	
r.	moulage kit		E	A	P	1 Commercial or home-made moulage kit per institution.
s.	disaster/triage tags		E	A	P	1 set per institution.

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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	
	b. nasal cannula (adult and pediatric)	R	E	A	P	
	c. simple mask (adult and pediatric)		E	A	P	
	d. venturi mask		E	A	P	
	e. nebulizer (mask and hand-held device)		E	A	P	
	f. oxygen supply tubing	R	E	A	P	
	g. oxygen humidification device		E	A	P	Optional (may use Nebulizer to humidify oxygen).
	h. portable oxygen tank w/regulator	R	E	A	P	
2.	Basic airway management					
	a. oropharyngeal airways (infant, child, and adult sizes)	R	E	A	P	
	b. nasopharyngeal airways (infant, child, and adult sizes)		E	A	P	
	c. bite sticks		E	A	P	
3.	Ventilation management					
	a. mouth to barrier device (i.e. face-shields, pocket mask)	R	E	A	P	
	b. bag-valve mask resuscitators - (infant, child and adult sizes)	R	E	A	P	
	c. manually triggered ventilator		E	A	P	Optional.
	d. automatic transport ventilator		E	A	P	Programs should either own, or have an agreement to use, a ventilator (for EMT/AEMT, ventilator should only adjust rate/volume) during the appropriate portions of the initial education.
4.	Suctioning					
	a. suction tubing	R	E	A	P	
	b. suction catheters - soft (various sizes)	R	E	A	P	
	c. suction catheters - rigid	R	E	A	P	
	d. suction unit - battery powered	R	E	A	P	
	e. suction unit - manually operated (i.e. v-vac)	R	E	A	P	
	f. bulb syringe	R	E	A	P	May be included as part of the OB kit.

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Airway and Breathing Equipment		Levels				NOTES
5.	Advanced airway management					
a.	CPAP system (disposable or CPAP generator with circuits)			A	P	Programs should either own, or have an agreement to use, a CPAP device during the appropriate portions of the initial education.
b.	Blind Insertion Airway Devices (BIAD) - multiple types (i.e. Combitube, LMA, King LT, PTL)			A	P	
c.	endotracheal tube holders (various commercial types)			A	P	Tube holders may should also be used to show AEMTs how to properly secure a BIAD.
d.	laryngoscope handles - adult and pediatric sizes				P	
e.	laryngoscope blades- assorted - straight (sizes 0-4)				P	
f.	laryngoscope blades- assorted - curved (sizes 1-4)				P	
g.	endotracheal stylettes - adult and pediatric sizes				P	
h.	esophageal intubation detector (bulb or syringe)				P	
i.	endotracheal tubes (sizes from 2.5mm to 10.0mm)				P	
j.	Magill forceps - adult and pediatric sizes				P	
k.	capnometry/capnography devices - various				P	Should include at a minimum colorimetric devices, but a waveform capnography device is preferred.
l.	PEEP valves				P	
m.	cricothyrotomy set				P	A commercial set is preferred.
n.	gastric tubes				P	Tubes used for placing a naso/oro-gastric tube.
o.	water based lubricant		E	A	P	
p.	chest decompression set / asherman seal				P	

Assessment Equipment		Levels				NOTES
1.	Basic assessment equipment					
a.	blood pressure cuffs (infant, child, adult, and large adult)	R	E	A	P	
b.	stethoscope	R	E	A	P	Programs should also have training stethoscopes.
c.	penlight		E	A	P	
d.	thermometer		E	A	P	
2.	Advanced assessment equipment					
a.	glucose monitoring device w/strips and lancets		E	A	P	
b.	pulse oximeter		E	A	P	
c.	otoscope/opthalmoscope				P	
d.	peak flow meters			A	P	

Pharmacological Intervention Equipment		Levels				NOTES
1.	Fundamental pharmacological equipment					
a.	unit dose/auto-injector trainers	R	E	A	P	Including the Mark I kit trainer.
b.	assortment of over-the-counter medications		E	A	P	Such as aspirin, acetaminophen, motrin, oral glucose.

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Pharmacological Intervention Equipment		Levels		NOTES
2.	Advanced pharmacological equipment: venipuncture/vascular access			
a.	blood collection tubes and supplies (may be expired)		A P	This would include a vacutainer tube holder and needles.
b.	IV catheters- assorted sizes and types		A P	
c.	IV administration sets (macro and micro)		A P	Should also include blood administration tubing.
d.	IV hanger / IV pole		A P	
e.	butterfly needles - assorted sizes		A P	
f.	intraosseous needles - various sizes/manufacturers		A P	Must include adult and pediatric IO devices.
g.	venous constricting bands (tourniquets)		A P	
h.	three way stopcocks		A P	
i.	INT injection caps or saline locks		A P	
j.	sharps containers		A P	
k.	pressure infusion bags		A P	
l.	aseptic technique pads (i.e. alcohol, betadine, chloraprep)		A P	
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	
e.	prefilled syringes, vials, ampules, etc.		A P	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	May have ones with or without syringes, or an assortment.
g.	needles for syringes - various gauges		A P	
h.	mucosal atomization device		A P	
i.	poison antidote kit w/ activated charcoal	E	A P	
j.	Epi-Pen trainer	R	E A P	
k.	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.
l.	medication labels		A P	For medications added to IV fluids.
m.	various examples of needles used to access implanted central IV ports		P	

Cardiac/Medical Equipment		Levels		NOTES
1.	Fundamental cardiac equipment			
a.	AED trainer (with pads)	R	E A P	
2.	Advanced cardiac equipment			
a.	mechanical CPR assist device	E	A P	Optional.
b.	cardiac monitor (capable of defibrillation, cardioversion, pacing) with electrodes and/or paddles		P	
c.	12 lead acquisition device (may be incorporated into the cardiac monitor)		P	
d.	dysrhythmia generator		P	
e.	dysrhythmia generator capable of 12 lead ECG generation		P	

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Cardiac/Medical Equipment		Levels				NOTES
3.	Emergency childbirth management					
	a. OB kit	R	E	A	P	
4.	Behavioral emergency equipment					
	a. soft/disposable or leather restraints		E	A	P	

Trauma Care Equipment		Levels				NOTES
1.	Equipment for splinting/immobilization					
	a. splints - (various types and sizes) (rigid & soft)	R	E	A	P	
	b. cervical collars - assorted sizes or adjustable (ped & adult)	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/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 (adult and pediatric)		E	A	P	Programs should have various types of traction splints.
2.	Equipment/supplies for bandaging/dressing					
	a. abdominal pad	R	E	A	P	
	b. elastic bandage (various sizes)	R	E	A	P	
	c. adhesive bandage with a non-stick center	R	E	A	P	
	d. elastic gauze	R	E	A	P	
	e. burn sheet (sterile) or clean wrapped sheets	R	E	A	P	
	f. gauze pads (sterile and non-sterile) (4x4 and 2x2)	R	E	A	P	
	g. multi-trauma dressing	R	E	A	P	
	h. trauma scissors	R	E	A	P	
	i. sterile eye pads	R	E	A	P	
	j. triangular bandage	R	E	A	P	
	k. petroleum gauze	R	E	A	P	
	l. tape [various sizes (1" to 3")]	R	E	A	P	
	m. commercial tourniquet for progressive bleeding control		E	A	P	

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