

# M A S S A C H U S E T T S

## OFFICE OF EMERGENCY MEDICAL SERVICES

DEPARTMENT OF PUBLIC HEALTH

### ADMINISTRATIVE REQUIREMENT MANUAL

**EFFECTIVE DATE:** December 15, 2016 **AUTHORIZATION:** A. Sousa, Interim Director

**TITLE:** Basic Life Support (BLS) Equipment List

**SUPERSEDES:** November 2, 2015

#### General Principles

- A. **REGULATORY AUTHORITY:** 105 CMR 170.455, 170.460, 170.470
- B. **AUTHORIZED EQUIPMENT:** Ambulance services must carry equipment and medications as required by Statewide Treatment Protocols. Ambulance services should not equip ambulances with equipment that is outside of scope of practice of its EMT employees, or outside of the service's level of licensure.
- C. **PERFORMANCE STANDARDS:** All equipment must be designed and constructed to meet medical performance objectives and must not endanger patients.
- D. **MAINTENANCE:** All equipment and supplies must be maintained for proper use according to manufacturers' specifications with regard to maintenance, storage, expiration date, replacement, etc. Services must maintain records of preventive maintenance and repairs for all equipment, including service-level and third-party inspection and maintenance records.
- E. **SPECIFICATIONS:** All equipment must be latex free if available. Disposable is preferred.

ITEM	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	CLASS				
					I	II	IV	V	CC
First-In Kit/Bag	1.1	First-In kit may be incorporated into other units (i.e., portable oxygen unit). Each First-In kit must include the following:		2 (I, II, CC) 1 (IV, V)	I	II	IV	V	CC
	1.2	Oropharyngeal airways (sterile/wrapped)	ADULT CHILD INFANT	2 ea.	I	II	IV	V	CC
	1.3	Small dressings gauze (sterile)	4" x 4"	12	I	II	IV	V	CC
	1.4	Medium dressings gauze (sterile)	5" x 9"	4	I	II	IV	V	CC
	1.5	Large dressings gauze (sterile)	10" x 30"	2	I	II	IV	V	CC
	1.6	Soft roller, self-adhering bandage	4" x 5yrds	6	I	II	IV	V	CC
	1.7	Cravats / triangular bandages	40" wide	4	I	II	IV	V	CC
	1.8	Tourniquets approved by the Committee on Tactical Combat Casualty Care for control of arterial bleeding		2	I	II	IV	V	CC
	1.9	Adhesive tape (2") hypoallergenic	5yrds	2	I	II	IV	V	CC
	1.10	Bandage scissors (7") or equivalent		1	I	II	IV	V	CC
	1.11	Sphygmomanometer	ADULT	1	I	II	IV	V	CC
	1.12	Stethoscope		1	I	II	IV	V	CC
	1.13	Penlight-type flashlight		1	I	II	IV	V	CC
	1.14	Sterile water or saline solution (in an unbreakable container)	500 ml	1	I	II	IV	V	CC
	1.15	Bulb syringe (sterile/wrapped) 3oz for irrigation purposes		1	I	II	IV	V	CC
	1.16	Cold packs (instant)		2	I	II	IV	V	CC

ITEM	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	CLASS				
					I	II	IV	V	CC
	1.18	Tongue depressors (wrapped) for glucose administration		2	I	II	IV	V	CC
	1.19	Adhesive bandages (i.e. Band-Aids)	3/4"	6	I	II	IV	V	CC
	1.20	Mouth-to-mask resuscitator mask with one way valve and an oxygen port.		1	I	II	IV	V	CC
	1.21	Facemask and protective eye wear (combination face mask/eye shield equivalent)		2 ea.	I	II	IV	V	CC
	1.22	Exam type gloves (single use, latex-free)		2 pairs	I	II	IV	V	CC

<b>Medications</b>	2.1	Epinephrine Auto-Injector	ADULT PEDI	2 ea.	I	II	IV	V	CC
	2.2	Aspirin (chewable)	81mg or 324mg	At least 648mg	I	II	IV	V	CC
	2.3	Naloxone (prefilled syringe with nasal atomizer)	2mg	8mg	I	II	IV	V	CC
	2.4	Oral glucose or equivalent (with sterile tongue depressors)	25g	2	I	II	IV	V	CC

(Quantity listed is total per unit. Each First-in kit should be stocked with at least 1 dose of each medication)

<b>Portable Oxygen Unit</b>	3.1	Oxygen cylinder	D or E	1	I	II	IV	V	CC
	3.2	Oxygen cylinder pressure gauge and regulator capable of delivering a range of 0-25 LPM		1	I	II	IV	V	CC
	3.3	Bag-valve mask with oxygen supply reservoir (hand-operated, single use)	ADULT CHILD INFANT	1 ea.	I	II	IV	V	CC
	3.4	CPR Mask	ADULT PEDI	1 ea.	I	II	IV	V	CC
	3.5	Non-Rebreather: High concentration oxygen masks (transparent, disposable) with delivery tubes	ADULT PEDI	2 ea.	I	II	IV	V	CC
	3.6	Nasal cannula with delivery tube	ADULT	2	I	II	IV	V	CC
	3.7	Oxygen connecting tubing		1	I	II	IV	V	CC
	3.8	Cylinder wrench or wheel secured to unit		1	I	II	IV	V	CC
	3.9	Spare oxygen cylinder. All spare cylinders to be maintained in vehicle, but not part of the kit. All spare cylinders must be stored in crash stable devices per adopted standards for ambulance construction & design, and any amendments thereto.	D or E at min. 300L	1	I	II	IV	V	CC

<b>Portable Suction Unit</b>	4.1	Portable suction apparatus (battery powered) capable of delivering a minimum vacuum of 600 millimeters of mercury.		1	I	II	IV	V	CC
	4.2	Wide bore suction tubing (transparent/translucent, non-kinking)		1	I	II	IV	V	CC
	4.3	Semi-rigid pharyngeal suction tip with thumb suction control port		1	I	II	IV	V	CC

ITEM	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	CLASS				
					I	II	IV	V	CC
	4.4	Collection bottle or bag (non-breakable, disposable transparent)	550 ml	1	I	II	IV	V	CC
	4.5	Exam type gloves (single use, latex-free)		1 pair	I	II	IV	V	CC
	4.6	Facemask and protective eye wear (combination face mask/eye shield equivalent)		1 ea.	I	II	IV	V	CC
<b>Automatic External Defibrillator</b>	5.1	AED appropriate to ambulance staffing configuration, with appropriate accessories to conform to AHA standards		1	I	II	-	V	-
	5.2	AED Pads	ADULT PEDI	2 ea.	I	II	-	V	-
	5.3	Razor (single-use) or scissors		1	I	II	-	V	-
<b>Diagnostic Equipment</b>	6.1	ADULT Sphygmomanometer	LG-ADULT ADULT	1 ea.	I	II	IV	-	CC
	6.2	PEDI Sphygmomanometer	CHILD INFANT	1 ea.	I	II	IV	V	CC
	6.3	Stethoscope		1	I	II	IV	-	CC
	6.4	Penlight-type flashlight		2	I	II	IV	-	CC
<b>Installed Oxygen System</b>	7.1	An installed oxygen system conforming to adopted standards for ambulance construction & design, and any amendments thereto, and equipped with the following:		1	I	II	IV	-	CC
	7.2	Flow meters capable of delivering a range of 0-15 LPM (min.)		2	I	II	IV	-	CC
	7.3	Oxygen humidifier (unbreakable & single-use).		1	I	II	IV	-	CC
<b>Installed Suction</b>	8.1	Electrically powered suction aspirator system shall be furnished with an illuminated switch, and panel mounted (required per adopted standards for ambulance construction & design)		1	I	II	IV	-	CC
	8.2	Collection bottle or bag (non-breakable, disposable transparent)	1000 ml capacity	1	I	II	IV	-	CC
	8.3	Suction rinsing water bottle		1	I	II	IV	-	CC
	8.4	Semi-rigid pharyngeal suction tip with thumb suction control port		2	I	II	IV	-	CC
	8.5	Wide bore suction tubing (transparent/translucent, non-kinking)	1/4" diameter	2	I	II	IV	-	CC
	8.6	French suction catheters	5, 8, 14 Fr.	2 ea.	I	II	IV	-	CC
	8.7	Spare collection bags when bag type system is furnished		10	I	II	IV	-	CC
<b>Airway Management</b>	9.1	Bag-valve mask with oxygen supply reservoir (hand-operated, single use)	ADULT CHILD INFANT	1 ea.	I	II	IV	-	CC
	9.2	Oxygen connector tubing	84" long	2	I	II	IV	-	CC

ITEM	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	CLASS				
					I	II	IV	V	CC
	9.3	Non-Rebreather: High concentration oxygen masks (transparent, disposable) with delivery tubes	ADULT PEDI INFANT	4 ea.	I	II	IV	-	CC
	9.4	Nasal cannula with delivery tube	ADULT PEDI	4 ea.	I	II	IV	-	CC
	9.5	Oropharyngeal airways (sterile/wrapped)	ADULT CHILD INFANT	2 ea.	I	II	IV	-	CC
	9.6	Neonate oxygen delivery masks	NEONATE	2	I	II	IV		CC
	9.7	Nasopharyngeal airways (sterile/wrapped)	20F 22F 24F 26F 28F 30F 34F	1 ea.	I	II	IV	-	CC
	9.8	PEDI Nasopharyngeal airways (sterile/wrapped)	12F 14F 16F 18F	1 ea.	I	II	IV	-	CC
	9.9	Water soluble lubricant (single use package)		12	I	II	IV	-	CC
<b>Wound Care</b>	10.1	Small dressings gauze (sterile)	4" x 4"	24	I	II	IV	-	CC
	10.2	Medium dressings gauze (sterile)	5" x 9"	12	I	II	IV	-	CC
	10.3	Large dressings gauze (sterile)	10" x 30"	6	I	II	IV	-	CC
	10.4	Soft roller, self-adhering bandage	4" x 5yrds	12	I	II	IV	-	CC
	10.5	Cravats / triangular bandages	40" wide	8	I	II	IV	-	CC
	10.6	Adhesive tape (1") hypoallergenic	5yrds	4	I	II	IV	-	CC
	10.7	Adhesive tape (2") hypoallergenic	5yrds	4	I	II	IV	-	CC
	10.8	Bandage scissors (7") or equivalent		2	I	II	IV	-	CC
	10.9	Sterile water or saline solution (in an unbreakable container)	3000cc total	3 containers min.	I	II	IV	-	CC
	10.10	Commercial occlusive dressings		2	I	II	IV	-	CC
	10.11	Cold packs (instant)		4	I	II	IV	-	CC
<b>Burn Kit</b>	11.1	Burn sheets (sterile) linen or disposable		2	I	II	IV	V	CC
<b>Obstetrical Kit</b>	12.1	Obstetrical kit (sterile) containing the following		1	I	II	IV	V	CC
	12.2	Large towel		1	I	II	IV	V	CC
	12.3	Receiving blanket, or equivalent		1	I	II	IV	V	CC
	12.4	Sterile disposable plastic or rubber gloves;		1 pair	I	II	IV	V	CC
	12.5	Sterile gauze pads	3" x 3"	6	I	II	IV	V	CC
	12.6	Kelly clamps or sterile ties		2	I	II	IV	V	CC
	12.7	Sanitary napkins		6	I	II	IV	V	CC
	12.8	Infant bulb syringe		1	I	II	IV	V	CC
	12.9	Bandage or surgical blade scissors		1	I	II	IV	V	CC

ITEM	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	CLASS				
					I	II	IV	V	CC
	12.10	Container with lid for carrying placenta		1	I	II	IV	V	CC
	12.11	Newborn swaddler system, i.e. space blanket, foil saddler, or equivalent to retain body temperature		1	I	II	IV	V	CC
<b>(Commercial equivalent kit acceptable)</b>									
<b>Splints</b>	13.1	Traction splint (femur) device or equivalent; with ankle hitch and leg ties or equivalent. All accessory items to be stored with splints.	ADULT PEDI	1 ea.	I	II	IV	-	CC
	13.2	4.5' x 3" covered padded board splint (single-use) or equivalent (impervious to saturation)		2	I	II	-	V	CC
	13.3	3' x 3" covered padded board splint (single-use) or equivalent (impervious to saturation)		2	I	II	-	V	CC
	13.4	15" x 3" covered padded board splint (single-use) or equivalent (impervious to saturation)		2	I	II	-	V	CC
<b>Spinal Immobilization</b>	14.1	Half spine board with torso straps and head strap (2" tape or equivalent), or equivalent (i.e., KED)		1 board 3 straps	I	II	-	V	CC
	14.2	Full spine board, with easily cleanable 9' straps or functional equivalent and sufficient padding to maintain in-line head & cervical support/stabilization with head strap (2" tape or equivalent)		1 board 4 straps	I	II	IV	V	CC
	14.3	ADULT Cervical Collar (rigid)  <i>*Adjustable collar is equivalent to all 4 sizes*</i>	NO-NECK SMALL MEDIUM LARGE	2 ea.	I	II	IV	V	CC
	14.4	PEDI Cervical Collar (rigid)  <i>*Adjustable collar is equivalent to all 3 sizes*</i>	CHILD TODDLER INFANT	2 ea.	I	II	IV	V	CC
<b>(Accessories must be stored together near boards; all must be antibacterial/impervious to contaminants, or disposable)</b>									
<b>Stretcher</b>	15.1	4-wheeled, multi-level ambulance cot		1	I	II	-	-	CC
	15.2	Standard cot mattress with waterproof cover		1	I	II	-	-	CC
	15.3	Patient restraining devices at chest (commercial shoulder harness or equal) hip, and knee to prevent lateral or longitudinal displacement of the patient during transport		1 set ea.	I	II	-	-	CC
	15.4	Dual I.V. holder, capable of being cot mounted		1	I	II	-	-	CC
	15.5	Padded wrist and ankle restraints		1 set	I	II	-	-	CC
	15.6	For power type units, one extra battery, and charger (as recommended by manufacturer)		1	I	II	-	-	CC
<b>Stair Chair</b>	16.1	Stair chair with patient restraint straps		1	I	II	-	-	-
	16.2	For power type units, one extra battery, and charger (as recommended by manufacturer)		1	I	II	-	-	-

ITEM	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	CLASS				
					I	II	IV	V	CC
<b>Auxiliary Stretcher</b>	17.1	Auxiliary stretcher with patient restraint straps, or equivalent (i.e., orthopedic "scoop" stretcher, "Reeves" type stretcher, long spine board)		1	I	II	-	-	CC
<b>Transfer Sheet</b>	18.1	Transfer sheet with a minimum of six (6) handles, or equivalent		1	I	II	-	-	CC
<b>Accessories</b>	19.1	ADULT bed pan urinal, emesis basin, and large basin or equivalent		1 ea.	I	II	IV	-	CC
	19.2	Motion sickness bags, or equivalent, capable of being sealed		2	I	II	IV	V	CC
	19.3	Sheets (disposable or linen)		8 (I, II, CC) 2 (IV, V)	I	II	IV	V	CC
	19.4	Blankets		4 (I, II, CC) 2 (IV, V)	I	II	IV	V	CC
	19.5	Towels		4	I	II	IV	-	CC
	19.6	Paper tissues (disposable)		2 packages	I	II	IV	-	CC
	19.7	Drinking cups (disposable)		2	I	II	IV	-	CC
	19.8	Trash Bin liners, plastic (with ties)		2	I	II	IV	-	CC
	19.9	Bio-Hazard bags (with ties)		2	I	II	IV	-	CC
	19.10	Ring Cutter (with extra blade)		1	I	II	IV	-	CC
	19.11	CPR board or functionally equivalent (i.e., short board) hard washable surface for patient torso accessible to patient compartment.		1	I	II	IV	-	CC
	19.12	Child appropriate restraint device (i.e. PediMate) to provide safe transport of pediatric patient on stretcher		1	I	II	IV	-	CC
<b>Personal Protection</b>	20.1	Exam type gloves (single use, latex-free)	SMALL MEDIUM LARGE X-LARGE	1 box ea.	I	II	IV	V	CC
	20.2	Facemask and protective eye wear (combination face mask/eye shield equivalent)		4 ea.	I	II	IV	V	CC
	20.3	Antiseptic hand sanitizer dispenser or 25 individually wrapped antiseptic hand wipes		1	I	II	IV	V	CC
	20.4	Infection control kit, containing two (2) each of disposable, fluid resistant gowns, masks, caps, protective eye wear, and two (2) different sizes of gloves.		1 kit	I	II	IV	V	CC
<b>Safety/ Access Equipment</b>	21.1	Safety goggles		2	I	-	-	V	CC
	21.2	ANSI vest or equivalent (Class II/III)		2	I	II	IV	V	CC
	21.3	NIOSH-approved respirator		2	I	II	IV	V	CC

ITEM	#	DESCRIPTION	MIN. SIZE PER ITEM	TOTAL QUANTITY	CLASS				
					I	II	IV	V	CC
<b>Vehicle Equipment</b>	23.1	Warning Lights: Emergency warning beacon, visible 360 degrees, as permitted by M.G.L. c.90, s.7, or as required per adopted standards for ambulance construction & design or any amendments thereto.			I	II	IV	V	CC
	23.2	Audible Warning Device: A siren, adopted standards for ambulance construction & design & AMD Standard 023			I	II	-	V	CC
	23.3	Global positioning system (GPS) navigation system, and street directories and road maps for primary and backup areas served.			I	II	IV	V	CC
	23.4	Fire Extinguishers: CO2 or dry pounder, UL approved. Mounted in patient compartment (I, II, IV, CC).	5 lbs.	2 (I, II, CC) 1 (IV, V)	I	II	IV	V	CC
	23.5	Handlights: (6-volt/4.5-volt if rechargeable) bulb or LED or equivalent			I	II	IV	V	CC
	23.6	Chock Blocks		2	I	II	-	-	CC
	23.7	Road Reflectors (DOT approved triangles or equivalent)		6	I	II	-	V	CC
	23.8	US DOT Emergency Response Guidebook (current edition) or electronic equivalent		1	I	II	IV	V	CC
	23.9	National Institute of Occupational Health & Safety (NIOSH) pocket guide to Chemical Hazards (current edition) or electronic equivalent		1	I	II	IV	V	CC
	23.10	Binoculars	7 x 35mm	1	I	II	IV	V	CC
	23.11	SMART triage tags		25	I	II	IV	V	CC
	23.12	Additional protective equipment to adequately safeguard crew from anticipated exposures as defined by the licensee.			I	II	IV	V	CC
<b>OPTIONAL Access Equipment</b>	22.1	Screwdriver (8"; Phillips and flathead)		1 ea.	-	-	-	-	-
	22.2	Hacksaw (5 wire carbide blades)		1	-	-	-	-	-
	22.3	Pliers (10" vice grip)		1	-	-	-	-	-
	22.4	Short handled sledge hammer	3 lbs.	1	-	-	-	-	-
	22.5	Rope (synthetic)	50' x 0.5" diameter	1	-	-	-	-	-
	22.6	Hard Hat or equivalent		2	I	-	-	V	CC
	22.7	Leather Gloves (or equivalent)		2 pairs	I	-	-	V	CC