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Minimum Equipment Required for Paramedic Initial Education Programs

This document lists the minimum equipment required for Paramedic 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.

NOTE: Equipment listed is required for Paramedic initial education programs. Notes may indicate that a specific piece of equipment is optional, or may clarify the equipment description. Gaps in numbering/lettering (i.e. going from 1 to 3) on a equipment group mean that the unlisted equipment is not required at the Paramedic level.

General Equipment/Supplies		Level	NOTES
1.	Personal Protection Equipment		
	a. gloves - assorted (all sizes) (latex and latex-free)	PMDC	
	b. face and eye protection	PMDC	
	c. HEPA/N95 masks	PMDC	
	d. gowns- assorted sizes	PMDC	
	e. high visibility vests	PMDC	
	f. escape hoods/PAPR's	PMDC	1 per institution.
	g. waterless hand cleaner	PMDC	
2.	Communication/Documentation equipment		
	a. portable radios (two-way)	PMDC	A minimum of 2 per institution.
	b. ambulance patient care reports (PCR's)	PMDC	This could include online/computer based documentation tools.
3.	Manikins/Simulators (some commercial devices may have multiple functions)		
	a. airway manikins - (infant, child, and adult sizes)	PMDC	
	b. CPR manikins (infant, child, and adult sizes)	PMDC	
	c. cricothyrotomy simulator	PMDC	1 per institution.
	d. IV simulation arms	PMDC	
	e. intraosseous simulator (adult and pediatric)	PMDC	
	f. pediatric IV simulator	PMDC	
	g. childbirth manikin	PMDC	
	h. defibrillation/ cardioversion / pacing manikins	PMDC	
	i. IM / sub q injection simulator	PMDC	
	j. chest decompression simulator	PMDC	1 per institution.
	k. trauma manikin	PMDC	At least 1 per institution.

General Equipment/Supplies		Level	NOTES
4.	Miscellaneous equipment		
	a. aluminum foil	PMDC	
	b. football helmet	PMDC	1 per institution.
	c. blankets	PMDC	
	d. cold and hot chemical packs	PMDC	
	e. cotton swabs	PMDC	
	f. emesis container	PMDC	
	g. flashlight	PMDC	
	h. jump kit (complete)	PMDC	This should be stocked with equipment consistent with the level of provider being taught.
	i. motorcycle helmet (open and closed)	PMDC	1 of each per institution.
	j. EMS stretcher w/ straps to include shoulder harness	PMDC	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	PMDC	1 per institution. This can be a infant/child safety seat.
	l. pillow	PMDC	
	m. stair chair	PMDC	Programs should either own, or have an agreement to use, a stair chair during the appropriate portions of the initial education.
	n. tongue depressor	PMDC	
	o. irrigation fluid (may be expired)	PMDC	
	p. linen (towels, sheets)	PMDC	
	q. anatomical charts/models	PMDC	
	r. moulage kit	PMDC	1 Commercial or home-made moulage kit per institution.
	s. disaster/triage tags	PMDC	1 set per institution.

Airway and Breathing Equipment		Level	NOTES
1.	Supplemental oxygen therapy		
	a. high concentration oxygen mask - non-rebreather (adult and pediatric)	PMDC	
	b. nasal cannula (adult and pediatric)	PMDC	
	c. simple mask (adult and pediatric)	PMDC	
	d. venturi mask	PMDC	
	e. nebulizer (mask and hand-held device)	PMDC	
	f. oxygen supply tubing	PMDC	
	g. oxygen humidification device	PMDC	Optional (may use Nebulizer to humidify oxygen).
	h. portable oxygen tank w/regulator	PMDC	
2.	Basic airway management		
	a. oropharyngeal airways (infant, child, and adult sizes)	PMDC	
	b. nasopharyngeal airways (infant, child, and adult sizes)	PMDC	
	c. bite sticks	PMDC	
3.	Ventilation management		
	a. mouth to barrier device (i.e. face-shields, pocket mask)	PMDC	
	b. bag-valve mask resuscitators - (infant, child and adult sizes)	PMDC	
	c. manually triggered ventilator	PMDC	Optional.
	d. automatic transport ventilator	PMDC	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.

Airway and Breathing Equipment		Level	NOTES
4.	Suctioning		
	a. suction tubing	PMDC	
	b. suction catheters - soft (various sizes)	PMDC	
	c. suction catheters - rigid	PMDC	
	d. suction unit - battery powered	PMDC	
	e. suction unit - manually operated (i.e. v-vac)	PMDC	
	f. bulb syringe	PMDC	May be included as part of the OB kit.
5.	Advanced airway management		
	a. CPAP system (disposable or CPAP generator with circuits)	PMDC	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)	PMDC	
	c. endotracheal tube holders (various commercial types)	PMDC	Tube holders may should also be used to show AEMTs how to properly secure a BIAD.
	d. laryngoscope handles - adult and pediatric sizes	PMDC	
	e. laryngoscope blades- assorted - straight (sizes 0-4)	PMDC	
	f. laryngoscope blades- assorted - curved (sizes 1-4)	PMDC	
	g. endotracheal stylettes - adult and pediatric sizes	PMDC	
	h. esophageal intubation detector (bulb or syringe)	PMDC	
	i. endotracheal tubes (sizes from 2.5mm to 10.0mm)	PMDC	
	j. Magill forceps - adult and pediatric sizes	PMDC	
	k. capnometry/capnography devices - various	PMDC	Should include at a minimum colorimetric devices, but a waveform capnography device is preferred.
	l. PEEP valves	PMDC	
	m. cricothyrotomy set	PMDC	A commercial set is preferred.
	n. gastric tubes	PMDC	Tubes used for placing a naso/oro-gastric tube.
	o. water based lubricant	PMDC	
	p. chest decompression set / asherman seal	PMDC	

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

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

Pharmacological Intervention Equipment		Level	NOTES
2.	Advanced pharmacological equipment: venipuncture/vascular access		
	a. blood collection tubes and supplies (may be expired)	PMDC	This would include a vacutainer tube holder and needles.
	b. IV catheters- assorted sizes and types	PMDC	
	c. IV administration sets (macro and micro)	PMDC	Should also include blood administration tubing.
	d. IV hanger / IV pole	PMDC	
	e. butterfly needles - assorted sizes	PMDC	
	f. intraosseous needles - various sizes/manufacturers	PMDC	Must include adult and pediatric IO devices.
	g. venous constricting bands (tourniquets)	PMDC	
	h. three way stopcocks	PMDC	
	i. INT injection caps or saline locks	PMDC	
	j. sharps containers	PMDC	
	k. pressure infusion bags	PMDC	
	l. aseptic technique pads (i.e. alcohol, betadine, chloraprep)	PMDC	
3.	Equipment for the administration of medications/fluids		
	a. crystalloid IV fluids (may be expired)	PMDC	
	b. aerosol bronchodilators - may be commercial simulations (MDI)	PMDC	MDI with spacers are also recommended.
	c. aerosol bronchodilators - may be commercial simulations (prefilled doses for nebulizing)	PMDC	
	d. medications utilized in training for each scope of practice. - may be commercial simulations	PMDC	
	e. prefilled syringes, vials, ampules, etc.	PMDC	May be expired medications or commercial replicas. Medications should be appropriate to the scope of practice for that provider level.
	f. syringes - various volumes	PMDC	May have ones with or without syringes, or an assortment.
	g. needles for syringes - various gauges	PMDC	
	h. mucosal atomization device	PMDC	
	i. poison antidote kit w/ activated charcoal	PMDC	
	j. Epi-Pen trainer	PMDC	
	k. medication tablets - may be commercial simulations	PMDC	May be expired medications or commercial replicas. Medications should be appropriate to the scope of practice for that provider level.
	l. medication labels	PMDC	For medications added to IV fluids.
	m. various examples of needles used to access implanted central IV ports	PMDC	

Cardiac/Medical Equipment		Level	NOTES
1.	Fundamental cardiac equipment		
	a. AED trainer (with pads)	PMDC	
2.	Advanced cardiac equipment		
	a. mechanical CPR assist device	PMDC	Optional.
	b. cardiac monitor (capable of defibrillation, cardioversion, pacing) with electrodes and/or paddles	PMDC	
	c. 12 lead acquisition device (may be incorporated into the cardiac monitor)	PMDC	
	d. dysrhythmia generator	PMDC	
	e. dysrhythmia generator capable of 12 lead ECG generation	PMDC	
3.	Emergency childbirth management		
	a. OB kit	PMDC	

Cardiac/Medical Equipment		Level	NOTES
4.	Behavioral emergency equipment		
	a. soft/disposable or leather restraints	PMDC	

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