

## **109-2-8 Standards for type I, type IIa, type II, and type V ground ambulance**

**vehicles and equipment.** (a) Each ambulance shall meet the vehicle and equipment standards that are applicable to that class of ambulance.

~~(c)~~ (b) Each ambulance shall have the ambulance license prominently displayed in the patient compartment.

~~(b)~~ (c) The patient compartment size shall meet or exceed the following specifications:

(1) headroom: 60 inches; and

(2) length: 116 inches.

~~(e)~~ (d) Each ambulance shall have a heating and cooling system which is controlled separately for the patient and the driver compartments. The air conditioners for each compartment shall have separate evaporators.

~~(d)~~ (e) Each ambulance shall have separate ventilation systems for the driver and patient compartments. These systems shall be separately controlled within each compartment. Fresh air intakes shall be located in the most practical, contaminant-free air space on the ambulance. The patient compartment shall be ventilated through the heating and cooling systems.

~~(e)~~ (f) The patient compartment in each ambulance shall have adequate lighting so that patient care can be given and the patient's status monitored without the need for portable or hand-held lighting. A reduced lighting level shall also be provided. A patient compartment light and step-well light shall be automatically activated by opening the entrance doors. Interior light fixtures shall be recessed and shall not protrude more than 1 1/2 inches.

~~(f)~~ (g) Each ambulance shall have an electrical system to meet maximum demand of the electrical specifications of the vehicle. ~~at least two 80 amp/hr batteries and a 165 amp alternator.~~ All conversion equipment shall have individual fusing which is separate from the chassis fuse system.

~~(g)~~ (h) Each ambulance shall have lights and sirens as required by K.S.A. 8-1720, and amendments thereto and K.S.A. 8-1738, and amendments thereto.

~~(h)~~ (i) Each ambulance shall have an exterior patient loading light over the rear door which shall be activated both manually by an inside switch and automatically when the door is opened.

~~(i)~~ (j) The operator shall mark each ambulance licensed by the board as follows:

(1) The name of the ambulance service shall be in block letters, not less than four inches in height, and in a color that contrasts with the background color. The service name shall be located on both sides of the ambulance, and shall be placed in such a manner that it is readily identifiable to other motor vehicle operators.

(2) Any operator may use a decal or logo which identifies the ambulance service in place of lettering. The decal or logo shall not be less than 10 inches in height, and in a color that contrasts with the background color. The decal or logo shall be located on both sides of the ambulance and shall be placed in such a manner that it is readily identifiable to other motor vehicle operators.

(3) Any ambulance initially licensed by the board before January 1, 1995 which is identified either by letters or a logo on both sides of the ambulance shall be exempt from the minimum size requirements as indicated in paragraphs (1) and (2) of this subsection.

~~(j)~~ (k) By December 31, 2114 all EMS vehicles licensed to transport patients (other than air) shall display a distinctive vehicle identification number as described below:

(1) Lettering shall be placed on the side and rear panels of the exterior patient compartment as high on the panel as possible.

(2) Lettering shall be a minimum of 4" in height, in block letters that are reflective and in a contrasting color to the background.

(3) Lettering shall identify the county in which the service is licensed using the two letter county designation in capital letters followed by a dash and a unique vehicle identification number.

(4) Each service shall provide the executive director with a distinctive unit identification number for each unit during renewal or as a result of redesignation. Services should insure that the unique vehicle identification number is not duplicated on another ambulance in the county.

~~(j)~~ (l) Each type I, and type II, and type IIA ambulance shall have a two-way radio communications system which is readily accessible to both the attendant and the driver

which is in compliance with K.A.R 109-2-5(a) ~~This system shall be capable of providing direct communications between dispatch and medical control at a hospital.~~

~~(k)~~ (m) An operator shall equip each ambulance as follows:

(1) ~~a~~ an Halon or annually inspected ABC fire extinguisher with at least five pounds of dry chemical, which shall be placed in the driver compartment, and shall be easily accessible from an outside door;

(2) a second annually inspected ~~fire extinguisher which is either a Halon fire extinguisher with at least five pounds of contents, or an~~ ABC fire extinguisher with a minimum of five pounds of dry chemical. ~~The~~ This fire extinguisher shall be placed secured in the patient compartment ~~or in an outside compartment and shall be easily accessible to an attendant;~~

(3) ~~one functional battery-operated hand lantern with a power source of at least six volts or two~~ portable functional flashlights or one flashlight and one spotlight, ~~each having a minimum of two C or D-cell battery capacity;~~

(4) one four or six-wheeled, all purpose, multi-level cot with an elevating head and at least two safety straps with locking mechanisms;

(5) one urinal;

(6) one bedpan;

(7) one emesis basin or convenience bag;

(8) one complete change of linen;

(9) two blankets;

(10) one waterproof cot cover;

(11) one pillow; and

(12) a “no-smoking” sign posted in the patient and the driver compartment.

~~(j)~~ (n) The operator shall equip each ~~type I and type II~~ ground ambulance with the following internal medical systems:

(1) an oxygen system with at least two outlets located within the patient compartment and a minimum of 3,000 liters of storage capacity with a minimum of 200 psi. The system shall have a minimum flow rate of 100 liters per minute at the outlet. The cylinder shall be in a compartment which is vented to the outside. The pressure gauge and regulator control valve shall be readily accessible to the attendant from inside the patient compartment; and

(2) ~~an~~ a functioning on-board electrically-powered suction aspirator system with an airflow of at least ~~28~~ 30 liters per minute at the catheter tip and ~~a vacuum of at least 300 millimeters of mercury~~. The unit shall be easily accessible ~~equipped~~ with large bore, non-kinking suction tubing and a large bore semi-rigid, non-metallic oropharyngeal suction tip;

~~(m)~~ (o) The operator shall equip each ~~type I and type II~~ ground ambulance with the following medical equipment:

(1) a portable oxygen unit of at least 300 liter storage capacity, complete with yoke, pressure gauge, and flow meter and have a minimum of 200 psi. The unit shall be readily accessible from inside the patient compartment;

(2) a functioning portable, self-contained battery or manual suction aspirator with an airflow of at least ~~28~~30 liters per minute at the catheter tip and a non-breakable and transparent collection bottle or bag with a minimum of 1,000 ml. capacity. ~~and a vacuum of at least 300 millimeters of mercury.~~ The unit shall be fitted with large bore, non-kinking suction tubing and a large bore semi-rigid, non-metallic oropharyngeal suction tip unless not required by the device;

(3) a hand-operated, adult bag-mask ventilation unit which shall be capable of use with the oxygen supply;

(4) a hand-operated, pediatric and infant bag-mask ventilation unit which shall be capable of use with oxygen supply;

(5) oxygen masks in adult and pediatric sizes;

(6) nasal cannulas;

(7) oropharyngeal airways in adult, pediatric, and infant sizes;

(8) a blood pressure manometer with extra large, adult, and pediatric cuffs and a stethoscope;

(9) an obstetric kit with contents as described in the services medical protocol;

(10) sterile burn sheets;

(11) sterile large trauma dressings;

(12) assorted sterile gauze pads;

(13) occlusive gauze pads;

(14) soft roller, self-adhering type bandages;

(15) adhesive tape at least one inch wide;

(16) bandage shears;

(17) one liter of sterile water, currently dated or;

~~(18)~~ one liter of sterile saline, currently dated; and

~~(19)~~ a bite stick; and

~~(20)~~ (18) oral glucose or an equivalent high sugar substance currently dated

medications, authorized by the scope of practice and protocols.

~~(n)~~ (p) The operator shall equip each ~~type I and type II~~ ground ambulance with the following patient-handling and splinting equipment:

(1) a long ~~spine~~ spinal immobilization device ~~board~~, complete with accessories;

(2) a short ~~spine~~ spinal immobilization device ~~board~~, complete with accessories;

(3) a set of extremity splints including one arm and one leg splint in adult and pediatric sizes;

(4) a set of rigid cervical collars in assorted adult and pediatric ~~small, medium, and large~~ sizes;

(5) foam wedges or other devices which serve to stabilize the head, neck, and back as one unit; and

(6) patient disaster tags.

~~(e) Each operator shall demonstrate to the satisfaction of the administrator that the ambulance service either provides vehicle extrication and rescue services or that a fully equipped rescue vehicle or rescue service which provides the same services is immediately available to the operator.~~

~~(e)~~ (g) The operator shall equip each type I, type IIA, and type II ground ambulance with the following blood-borne and body fluid pathogen protection equipment:

(1) ~~latex or vinyl~~ non-latex gloves;

(2) two sets of protective goggles or two chin-length clear face shields;

(3) filtering masks which cover the mouth and nose that are at least 99.97% efficient in removing monodisperse particles of 0.3 micrometers in diameter;

(4) two non-permeable, full length, long sleeve protective gowns;

(5) a leak-proof, rigid container clearly marked as contaminated products for the disposal of sharp objects; and

(6) a leak-proof, closeable container for soiled linen and supplies.

~~(e)~~ (r) The operator shall equip each type I or type IIA ambulance with the following equipment:

(1) a monitor/defibrillator;

(2) a drug supply as listed in the service's medical protocols;

(3) ~~macro-drip and micro-drip~~ intravenous administration sets according to medical protocol;

(4) IV solutions in plastic bags or plastic bottles as listed in the service's medical protocols;

(5) assorted syringes and ~~14-22 gauge~~ needles necessary to meet the requirements of medical protocols;

(6) endotracheal tubes in adult, child, and infant sizes if authorized by protocols; and

(7) a laryngoscope with adult and pediatric blades.

~~(f) Each type I and type II ambulance service operator shall develop a list of supplies and equipment which is carried on each ambulance. This list shall include the supplies and equipment required by the board for the vehicle license type, and any additional supplies or equipment necessary to carry out the patient care activities as indicated in the services medical protocol.~~

~~(1) Each operator shall receive annual written approval by the emergency committee of the county medical society for the list of supplies and equipment carried on each ambulance.~~

~~(2) In those counties where there is no emergency committee of the medical society, the operator shall receive annual written approval for the~~

~~list of supplies and equipment carried on each ambulance by the medical staff of the hospital to which the ambulance service primarily transports patients.~~

~~(3) Each operator shall submit the list of supplies and equipment carried on each ambulance to the board each year with the operator's application for an ambulance service permit.~~

(s) If an operators medical protocols or equipment list are is amended, a copy of these changes shall be submitted to the board by the service operator ~~with a letter of approval as indicated in subsection (r) of this regulation~~ within 15 days of implementation of the change. Equipment and supplies obtained on a trial basis or for temporary use by the operator need not be reported to the board by an operator.

(t) An ambulance service shall provide verification that each new ambulance ordered after (date) complies with the KKK-1822 manufacturing standards. (Authorized by and implementing K.S.A. ~~1995 Supp. 65-6110~~; implementing K.S.A. 65-6110, K.S.A. 65-6112 as amended by L. 2010, Ch 119, sec 2; and K.S.A. 65-6128; effective May 1, 1985; amended, T-88-24, July 15, 1987; amended May 1, 1988; amended July 17, 1989; amended Aug. 16, 1993; amended Jan. 31,1997; amended P-\_\_\_\_\_.)1987; amended May 1, 1988; amended July 17, 1989; amended Aug. 16, 1993; amended Jan. 31, 1997.)