



National Headquarters
2025 E Street NW
Washington, DC 20006

Training Manikin Requirements for American Red Cross Certification Courses

As the leader in first aid, CPR and AED training, the American Red Cross believes a standard of minimum requirements for training manikins is necessary to ensure the quality and consistency of the training given by the American Red Cross and its authorized providers.

The following approved, training manikins meet or exceed Red Cross requirements.

- **Adult Manikins:**
 - Actar D-fib - Armstrong
 - Ambu Man - Ambu
 - Ambu CPR Pal - Ambu
 - Little Anne - Laerdal
 - Little Joe / Brad / Paul - Armstrong/Simulaid
 - Resuci Anne - Laerdal
 - Prestan adult manikin - Prestan Professional Manikins

- **Child Manikins:**
 - Little Junior - Laerdal
 - Resuci Junior – Laerdal
 - Prestan child manikin - Prestan Professional Manikins

- **Infant Manikins:**
 - Ambu Baby CPR - Ambu
 - Baby Anne - Laerdal
 - Resuci Baby - Laerdal
 - Chris Baby - Armstrong
 - Prestan infant manikin - Prestan Professional Manikins

The minimum requirements for CPR manikins when conducting American Red Cross First Aid, CPR and AED certification courses are listed below.

For more information, please contact instructorscorner@usa.redcross.org.

Adult CPR Manikin Requirements

Minimum features of adult CPR manikins that are required when conducting American Red Cross First Aid, CPR and AED certification courses

1. Lung Capacity 700-1000 ml:
 - i. Chest should begin to rise only when 700ml of air is ventilated into the manikin or should indicate when this amount is used.
 - ii. *Ability for gastric distension for incorrect head placement or volumes. (Preferred – exceeds minimum requirements)*
2. Airway:
 - i. Must allow the course participants to correct an anatomical airway obstruction by appropriately performing:
 1. Head Tilt – Chin Lift;
 2. Jaw Thrust Maneuver.
3. Breathing:
 - i. Must allow the course participants to appropriately perform:
 1. Mouth-to-mouth breathing (with or without breathing barrier);
 - a. *Nostrils must be able to be pinched closed; (Preferred – exceeds minimum requirements)*
 2. Mouth-to-nose breathing. *(Preferred – exceeds minimum requirements)*
4. Circulation:
 - i. Must allow the course participants to demonstrate a pulse check (Carotid)
5. Compressions:
 - i. Must have realistic simulated anatomical landmarks (nipples, sternum, ribs) which allow for proper hand positioning; and
 - ii. Chest must be flexible enough to allow participants to compress about 2 inches.
6. Defibrillation:
 - i. Must allow proper placement of AED training pads.
7. Decontamination:
 - i. All materials and reusable airway parts must be capable of being cleaned and decontaminated per CDC and manufacturer's guidelines; and
 - ii. All manikins must have written cleaning, decontamination and maintenance guidelines provided by the manufacturer.
8. Materials:
 - i. Must be of durable construction and able to withstand 125 student uses (minimum) (125 uses would equal 328,125 compressions and 21,875 ventilations) and normal transport use; and
 - ii. Must contain no latex on, or in any part, component or subcomponent in which participants may come into contact; and
 - iii. Must realistically represent the size and shape of an adult.

Child CPR Manikin Requirements

Minimum features of Child CPR manikins that are required when conducting American Red Cross First Aid, CPR and AED certification courses.

1. Lung Capacity (8-12ml/kg):
 - i. Chest should begin to rise only when the amount of air which is consistent with the tidal volume for a child of the age and weight represented by the manikin based on 8-12 ml/kg is ventilated into the manikin or should indicate when this amount is used.
 - ii. *Ability for gastric distension for incorrect head placement or volumes. (Preferred – exceeds minimum requirements)*
2. Airway:
 - i. Must allow the course participants to correct an anatomical airway obstruction by appropriately performing:
 1. Head Tilt – Chin Lift; and
 2. Jaw Thrust Maneuver.
 - ii. Must have anatomically correct large occiput requiring padding under torso for correct airway position if child manikin is designed to represent a child of less than 2 years of age.
3. Breathing:
 - i. Must allow the course participants to appropriately perform:
 1. Mouth-to-mouth breathing (with or without breathing barrier);
 - a. *Nostrils must be able to be pinched closed; (Preferred – exceeds minimum requirements)*
 2. Mouth-to-nose breathing. *(Preferred – exceeds minimum requirements)*
4. Circulation:
 - i. Must allow the course participants to demonstrate a pulse check (Carotid)
5. Compressions:
 - i. Must have realistic simulated anatomical landmarks (nipples, sternum, ribs) which allow for proper hand positioning; and
 - ii. Chest must be flexible enough to allow participants to be able to compress about 1 ½ inch.
6. Defibrillation:
 - i. Must allow proper placement of AED training pads in both the Apical-Sternal (upper right chest and lower left chest) and Anterior-Posterior (front and back if the pads are too large to both fit on the front) placement.
7. Decontamination:
 - i. All materials and reusable airway parts must be capable of being cleaned and decontaminated per CDC and manufacturer's guidelines; and
 - ii. All manikins must have written cleaning, decontamination and maintenance guidelines provided by the manufacturer.
8. Materials:
 - i. Must be of durable construction and able to withstand 125 student uses (minimum) (125 uses would equal 328,125 compressions and 21,875 ventilations) and normal transport; and
 - ii. Must contain no latex on, or in any part, component or subcomponent in which participants may come into contact; and
 - iii. Must realistically represent the size and shape of a child.

Infant CPR Manikin Requirements

Minimum features of Child CPR manikins that are required when conducting American Red Cross First Aid, CPR and AED certification courses

1. Lung Capacity (8-12 ml/kg):
 - i. Chest should begin to rise only when the amount of air which is consistent with the tidal volume for an infant of the age and weight represented by the manikin based on 8-12 ml/kg is ventilated into the manikin or should indicate when this amount is used.
 - ii. *Ability for gastric distension for incorrect head placement or volumes. (Preferred – exceeds minimum requirements)*
2. Airway:
 - i. Must allow the course participants to correct an anatomical airway obstruction by appropriately performing:
 1. Head Tilt – Chin Lift;
 2. Jaw Thrust Maneuver.
 - ii. Must have anatomically correct large occiput requiring padding under torso for correct airway position.
3. Breathing:
 - i. Must allow the course participants to perform;
 1. Mouth-to-mouth and nose breathing (with or without breathing barrier);
 2. *Mouth-to-nose breathing. (Preferred – exceeds minimum requirements)*
4. Circulation:
 - i. Must allow the course participants to demonstrate a pulse check (brachial)
5. Compressions/back blows:
 - i. Must have realistic simulated anatomical landmarks (nipples, sternum, ribs, shoulder blades) which allow for proper hand positioning; and
 - ii. Chest must be flexible enough to allow participants to be able to compress about 1 inch.
6. Decontamination:
 - i. All materials and reusable airway parts must be capable of being cleaned and decontaminated per CDC and manufacturer's guidelines; and
 - ii. All manikins must have written cleaning, decontamination and maintenance guidelines provided by the manufacturer.
7. Materials:
 - i. Must be of durable construction and able to withstand 125 student uses (minimum) (125 uses would equal 328,125 compressions and 21,875 ventilations) and normal transport; and
 - ii. Must contain no latex on, or in any part, component or subcomponent in which participants may come into contact; and
 - iii. Must realistically represent the size and shape of an infant. Must have arms and legs.