

KENTUCKY RIVER MINE RESCUE CONTEST



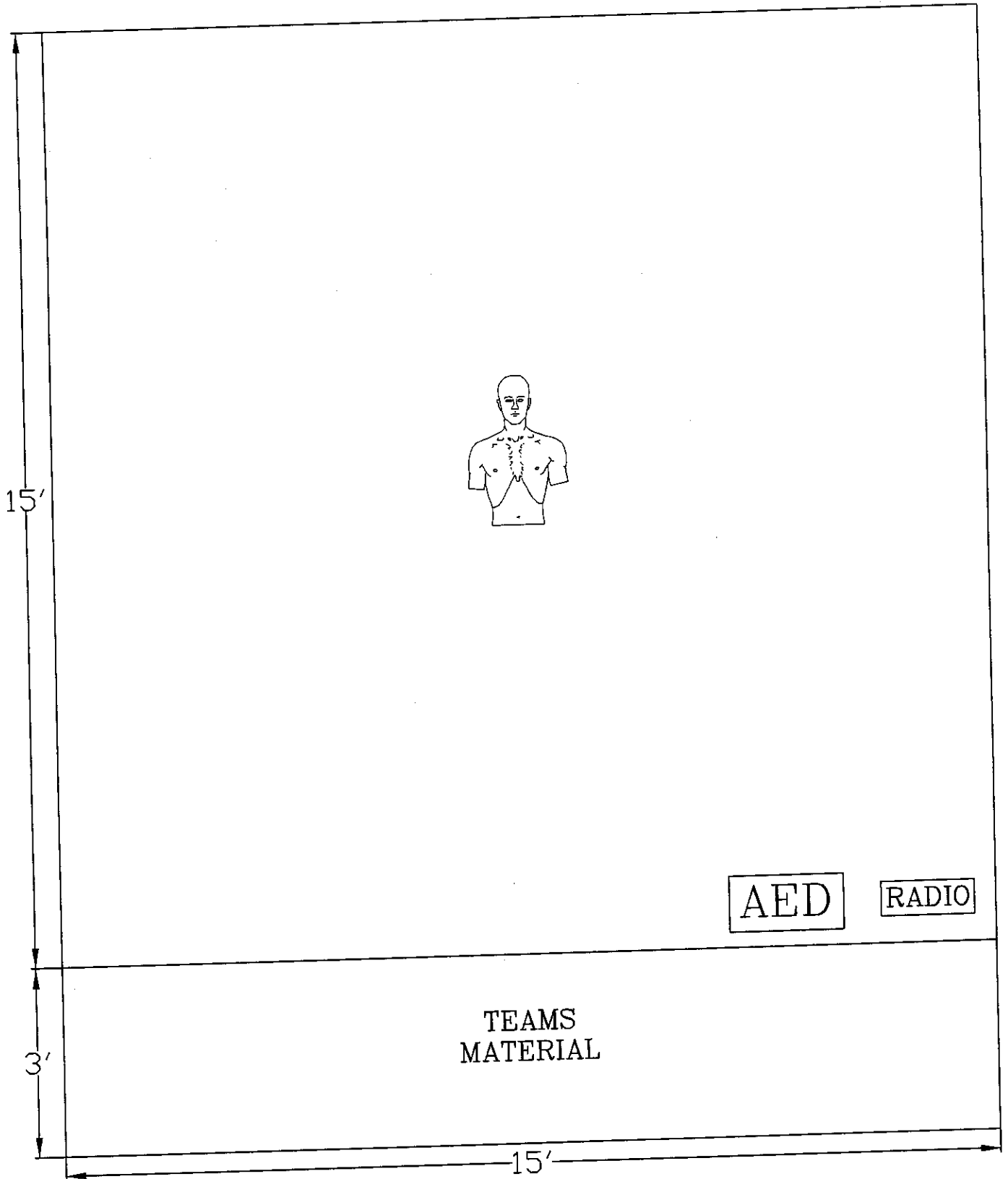
FIRST AID SKILLS PROBLEM

2014

PROBLEM

Sparky Combs is the 001 section electrician and is working on a splice in the #2 shuttle car trailing cable when he receives a severe electrical shock. You and your partner witness the accident and immediately knock the circuit breaker. When you get to Sparky he is not breathing and does not have a pulse. An AED is immediately available. Please help Sparky.

FIELD LAYOUT



AUTOMATED EXTERNAL DEFIBRILLATOR

PROCEDURES	CRITICAL SKILL
1. ASSESSES	<input type="checkbox"/> *A. Check for response <input type="checkbox"/> *B. Checks for no breathing or no normal breathing, only gasping (5-10 seconds)
2. ACTIVATE	<input type="checkbox"/> *A. Emergency response system
3. CHECKS FOR PULSE	<input type="checkbox"/> *A. No more than 10 seconds
4. GIVES HIGH-QUALITY CPR	<input type="checkbox"/> A. Correct compression hand placement <input type="checkbox"/> B. Adequate Rate: At least 100/min. (i.e., delivers each set of 30 chest compressions in 18 seconds or less) <input type="checkbox"/> C. Adequate Depth: Delivers compressions at least 2 inches in depth (at least 23 out of 30) <input type="checkbox"/> D. Allows complete chest recoil (at least 23 out of 30) <input type="checkbox"/> E. Minimizes interruptions: Gives 2 breaths with pocket mask in less than 10 seconds
5. SECOND RESCUER ARRIVES WITH AED (DURING FIFTH SET OF COMPRESSIONS)	<input type="checkbox"/> A. First rescuer continues compressions while second rescuer turns on AED and applies pads <input type="checkbox"/> *B. RESCUERS SWITCH - First rescuer clears victim, allowing AED to analyze <p style="margin-left: 40px;">(Judges shall provide an envelope indicating a shockable or non-shockable rhythm)</p> <input type="checkbox"/> *C. If AED indicates a shockable rhythm, first rescuer clears victim again and delivers shock.
6. RESUME HIGH-QUALITY CPR	<input type="checkbox"/> A. Second rescuer gives 30 compressions immediately after shock delivery (2 cycles) <input type="checkbox"/> B. First rescuer successfully delivers 2 breaths

The AED has detected a shockable rhythm.

Sparky is now breathing and has a pulse.