

Conducting School-based AED Practice Drills

Introduction:

Doing a practice drill for your cardiac emergency response is the best way to find out if your plan works, to test your communication system and your response team's readiness. The checklist allows you to obtain objective data, and the scenarios provide a realistic framework for your team to work from.

Planning the Practice Drill

When: Some schools do their first drill on a day or time when students are not around—early release, teacher workday, after school, etc. After that it is not usually a problem to do it more realistically during school. You should tell your team that you will be doing a practice drill in the next couple of weeks, so that they may have a chance to review the plan, etc. ahead of time. Then do not tell them exactly when you will do the drill.

Who: The drill will involve your first responder team, your front office staff, and an objective observer (recording the times different things happened on the checklist). Sometimes it works well to use the school nurse as the observer/recorder. This way the team is not looking to her to "run" the response. Before the drill you will want to tell the person designated to make the 911 call that this is a drill only. If classroom teachers are on your response team, there should be a plan for how they are to "cover" their class during an emergency.

What: Choose a scenario from the ones provided, or make one up that fits your school. You will need a manikin with at least a T shirt on, AED trainer, and the checklist on a clipboard. Your AED should be in its usual location.

Where: Use an empty classroom, the back office area, a workroom or the cafeteria or media center when students are not expected to be there.

The Day of the Drill

Place the manikin on the floor, then make a call (or use the intercom) to the front office and tell them you have an unresponsive victim in the ______. At this time your plan should go into effect, with the first responders being notified using the communication plan you have in place (i.e. PA, intercom, walkietalkie,etc.). Your observer will then begin to record the times each event happens: the call to alert first responders, arrival of first rescuer, time CPR started, how many rescuers came, time AED arrived, time AED placed, time of first shock, etc. When the first rescuer comes in, give him the short scenario, as if you were the witness. When your school AED arrives, hand them the trainer to use, and just encourage them to carry on as if this were a real arrest situation. You might even want to test your all-staff awareness, and have the first person coming into the room react, and initiate the first call.

After the Drill

Congratulate everyone, then take a few minutes to go over the checklist together, checking the times that different stages of the response took. Ask everyone how they felt about it, and discuss any concerns anyone had. Evaluate the checklist and staff response to see if there are any action steps that need to be taken. Were there any communication problems? If the drill indicates any needed changes, discuss these with your response team and administrator, make the changes and communicate them clearly to your team, then plan to have another drill soon to test the new plan.

SCHOOL-BASED AED PROGRAM AED SKILL DRILL SUMMARY CHECKLIST

UHUUL:	DATE: TIME DRILL TERMINATED:
IME DKILL STAKTED:	IIME DKILL IEKMINAIED:
1. Time school staff member discovered	victim and called front office
2. Time "Code" announcement made by	Front Office Staff
3. First rescuer to respond (check all that	t apply): □ Called for help (vocal) □ Called for help (phone) □ Started CPR □ Ran for help □ Other
4. Time Rescuer 2 arrived on scene	
5. Time CPR started CPR started by Rescuer 1? □ Yes □ Did rescuers switch off CPR role every	No, CPR performed byy 2 min.? □ Yes □ No
6. How many people (total) responded to	scene?
7. School's Resource Officer or Administration	rator arrived? Yes, Time
8. Time AED sent for Time AED arrived at scene Time AED attached to victim Time of first shock Person who performed AED functions	
9. Staff member sent to front of school to	await/direct EMS? ☐ Yes, Time ☐ No
<u>'OMMENTS</u>	
OUESTIONS What did the rescuers do right? What could the rescuers do better? What was easy to remember to do? What was hard to remember to do?	□No

SCHOOL-BASED AED PROGRAM AED SKILL DRILL I (Elementary Student)

Skill Drills should be a part of any School-based AED Program. The Skill Drills are scenarios designed to practice and reinforce more realistic CPR and AED skills for trained responders/rescuers in their school setting. These drills should be reviewed annually to assure optimal performance during an actual emergency.

Purpose: Management of a sudden cardiac arrest of an elementary-aged student requiring the performance of CPR and AED

using pediatric electrode pads. After 3rd shock the victim is resuscitated.

Materials Required: •AED Trainer with pediatric electrode pads

• First aid kit including CPR mask/face shield, scissors, razor, and gloves

Mannequin

•Telephone (unconnected)

• Skill Drill Checklist on clipboard with pencil

Stop watch

AED Trainer Settings: Start with shockable rhythm, 1 shock, CPR 2 minutes, 2nd shock, CPR 2 minutes, 3rd shock, converts to non-shockable

rhythm, breathing returns.

Rescuer's Roles: Rescuer 1 – CPR rescuer

Rescuer 2 – 911 caller and meets EMS at front of school

Rescuer 3 – AED rescuer

Rescuer 4 – Observer/time keeper (complete Checklist for Skill Drill)

Scenario: Mrs. Smith's 1st grade class is on the playground for recess. John, one of Mrs. Smith's students, is playing soccer and

starts to have shortness of breath, but doesn't stop playing to tell his teacher. Suddenly John collapses and begins having some seizure-like activity. You (Rescuer 1) are on the playground and see John on the ground. You and another teacher (Rescuer 2) are the first responders to reach the student. Begin to assess and manage the victim now.

Assessment findings	Expected Learner Actions				
	Rescuer 1 – CPR rescuer	Rescuer 2 – 911 caller	Rescuer 3 – AED rescuer	Rescuer 4 – Observer/time keeper	
 Rescuer 1 assesses the victim. Victim has seizure-like activity. Seizure-like activity stops. There is no breathing. 	 Assesses victim (Check responsiveness, open airway, assess breathing). Identifies bystanders to assist with the emergency. 	●Call EMS / front office to call 911/notify others ("Student with sudden loss of consciousness"). ●Gives Rescuer 1	•Runs or calls for AED in the school.	Completes AED Skill Drill Checklist. Times drill with stop watch.	
• Rescuer 2 calls EMS and arrives with first aid kit.	•Simultaneously instructs Rescuer 2 to notify EMS and obtain the AED/first aid kit.	playground first aid kit. •Instructs Rescuer 3 to obtain AED in school.	(In real emergency, another rescuer should be clearing other students from scene.)		
Note: Seizures are related to lack of oxygen and have often been noted in Sudden Cardiac Arrests.	 Puts on gloves and obtains CPR mask/face shield from playground first aid kit. Initiates CPR. 	•Meets EMS at front of school.			
•Rescuer 3 arrives with AED.	•Stops CPR.		 Arrives with AED. Removes clothing. Turn AED "on". Attaches pediatric electrodes. 		
•Victim's initial rhythm is Ventricular Fibrillation (VF).	Stops CTR.		Clear & Analyzes. Clear & Shocks 1 time.		
Rhythm remains VF for 1 shock.There is no breathing.	Checks for breathing.Performs CPR for 2 minutes.				
 After 2 minutes of CPR, rhythm Continues in VF. Rhythm remains VF for 2nd shock. There is no breathing. 	•Checks for breathing.		 ◆Clear & Analyzes. ◆Clear & give 2nd Shock. 		
There is no oreuting.	Performs CPR for 2 minutes.				
 After 2 minutes of CPR, rhythm Continues in VF. After 3rd shock, rhythm converts to Normal Sinus Rhythm. "No shock advised". 			 ◆Clear & Analyzes. ◆Clear & give 3rd Shock. Student moves, begins breathing. 		
•Victim is now breathing.	 Check for breathing. Place victim in recovery position. Monitor victim until EMS arrives. 				

Review the AED Skills Drill Summary Checklist.

SCHOOL-BASED AED PROGRAM AED SKILL DRILL II (Secondary Student)

Skill Drills should be a part of any School-based AED Program. The Skill Drills are scenarios designed to practice and reinforce more realistic CPR and AED skills for trained responders/rescuers in their school setting. These drills should be reviewed annually to assure optimal performance during an actual emergency.

Purpose: Management of a sudden cardiac arrest of a secondary student lying in a puddle of water requiring the performance of

CPR and AED with how to remove the victim from standing water and dry the chest. After 3rd shock the victim is

resuscitated.

Materials Required: • AED Trainer

• First aid kit including CPR mask/face shield, scissors, razor, and gloves

Mannequin

•Telephone (unconnected)

• Skill Drill Checklist on clipboard with pencil

Stop watch

AED Trainer Settings: Start with shockable rhythm, 1 shock, CPR 2 minutes, 2nd shock, converts to non-shockable rhythm, breathing returns.

Rescuer's Roles: Rescuer 1 – CPR rescuer

Rescuer 2 – 911 caller and meets EMS at front of school

Rescuer 3 – AED rescuer

Rescuer 4 – Observer/time keeper (complete Checklist for Skill Drill)

Scenario: MS or HS Students are changing classes in the hallway. Sue, a student, was dizzy when she got up. Sue goes to the

water fountain for a drink of water and suddenly collapses. You (Rescuer 1) are in the hallway and hear a student call for assistance. You and another teacher (Rescuer 2) are the first responders to reach the student. The student is in a

puddle of water under the water fountain. Begin to assess and manage the victim now.

Assessment findings/Discussion	Expected Learner Actions				
	Rescuer 1 – CPR rescuer	Rescuer 2 – 911 caller	Rescuer 3 – AED rescuer	Rescuer 4 – Observer/time keeper	
Rescuer 1 assesses the victim. Victim is unresponsive. There is no breathing. Victim is lying face down in a puddle of water. Rescuer 2 calls 911 and arrives with Classroom first aid kit.	 Assesses victim (Check responsiveness, open airway, assess breathing). Identifies bystanders to assist with the Emergency. Simultaneously ask Rescuer 2 to notify EMS and obtain the AED/first aid kit. Puts on gloves and obtains CPR mask/face shield from the classroom's first aid kit Removes victim from puddle of water. Initiates CPR 	Calls EMS/ front office to notify others. Gives Rescuer 1 classroom first aid kit. Instructs Rescuer 3 to obtain the school's AED. Meets EMS at front of school.	•Runs or calls for AED in the school.	Completes AED Skill Drill Checklist. Times drill with stop watch.	
Rescuer 3 arrives with AED. Note: Rescuer must move and dry victim before attaching electrode	Timules of It		 Arrives with AED + kit. Removes victim's clothing. Dries chest with towel. Turn AED"on". 		
pads	●Stops CPR.		• Attaches electrode pads.		
 Victim's initial rhythm is Ventricular Fibrillation (VF). Rhythm remains VF for 1 shock. 			•Clear & Analyzes. •Clear & Shocks 1 time.		
•	• Checks for breathing.				
 There is no breathing. After 2 minutes of CPR, victim's rhythm continues in VF. Rhythm remains VF for 2nd shock. 	Performs CPR for 2 minutes. Checks for breathing. Performs CPR for 2 minutes.		•Clear & Analyzes. •Clear & give 2 nd shock.		
 After CPR, rhythm reanalyzed "No shock advised". Victim begins breathing. 	•Place victim in recovery position.		Clear & Analyzes."No shock advised"		
	Monitors victim until EMS arrives.				

Review the AED Skill Drill Summary Checklist.

SCHOOL-BASED AED PROGRAM AED SKILL DRILL III (Adult Staff Member)

Skill Drills should be a part of any School-based AED Program. The Skill Drills are scenarios designed to practice and reinforce more realistic CPR and AED skills for trained responders/rescuers in their school setting. These drills should be reviewed annually to assure optimal performance during an actual emergency.

Purpose: Management of a sudden cardiac arrest of an adult faculty member requiring the performance of CPR and AED

and removal of a medication patch worn by the victim. After the 2nd shock the victim is resuscitated.

Materials Required: •AED Trainer

• First aid kit including CPR mask/face shield, scissors, razor, and gloves

•Mannequin with a piece of tape that represents a medication patch on the chest at the location for the right AED electrode pad.

• Telephone (unconnected)

• Skill Drill Checklist on clipboard with pencil

Stop watch

AED Trainer Settings: Start with shockable rhythm, 1 shock, CPR 2 minutes, 2nd shock, converts to non-shockable rhythm, breathing returns.

Rescuer's Roles: Rescuer 1 – CPR rescuer

Rescuer 2 – 911 caller and meets EMS at front of school

Rescuer 3 – AED rescuer

Rescuer 4 – Observer/time keeper (complete Checklist for Skill Drill)

Scenario: The school day is almost over and Mr. Jones, the custodian, is fixing the gym doors while the basketball team gets

ready to practice. Mr. Jones has had shortness of breath and chest pain all day and thinks, "I must have eaten

something at lunch giving me heartburn today." You (Rescuer 1) hear a sound as if someone has fallen. As you look over, you see Mr. Jones lying on the floor. You yell to the other coach (Rescuer 2) for assistance and are the first

responders to reach the custodian. An AED is in the school. Begin to assess and manage the victim now.

Assessment findings	Expected Learner Actions				
	Rescuer 1 – CPR rescuer	Rescuer 2 – 911 caller	Rescuer 3 – AED rescuer	Rescuer 4 – Observer/time keeper	
Rescuer 1 assesses the victim. Victim is unresponsive. There is no breathing. Rescuer 2 calls EMS and arrives with first aid kit.	 Assesses victim (Check responsiveness, open airway, assess breathing). Identifies bystanders to assist with the Emergency. Simultaneously instructs Rescuer 2 to notify EMS and obtain the AED/first aid kit. Puts on gloves and obtains CPR mask/face shield from gym's first aid kit. 	Call EMS/front office to notify others ("Victim-adult male- down suddenly and unresponsive".) Gives Rescuer 1 Gym's first aid kit. Instructs Rescuer 3 to obtain AED in school. Meets EMS at front of school.	•Runs or calls for AED in the school.	Completes AED Skill Drill Checklist. Times drill with stop watch.	
• Rescuer 3 arrives with AED. Note: Rescuers must remove medication patch and wipe skin before attaching electrode pads.	●Initiates CPR.		 Arrives with AED. Removes clothing. Removes medication patch and wipes skin. Turn AED"on". Attaches electrode pads. 		
●Victim's initial rhythm is Ventricular Fibrillation (VF). ●Rhythm remains VF for 1 shock. ●There is no breathing.	Stops CPR. Checks for breathing. Checks for breathing.		Clear & Analyzes. Clear & Shocks 1 time.		
 After 2 minutes of CPR, rhythm is Continues in VF. Rhythm remains VF for 2nd shock. 	 Performs CPR for 2 minutes. Checks for breathing. Performs CPR for 2 minutes. 		◆Clear & Analyzes. ◆Clear & give 2 nd Shock.		
 ◆After 2nd shock, victim's rhythm converts to Normal Sinus Rhythm ◆Victim is now breathing. 	Check for breathing. Place victim in recovery position. Monitor victim until EMS arrives.		Clear & Analyzes."No shock advised".		

Review the AED Skill Drill Summary Checklist.

SCHOOL-BASED AED PROGRAM AED SKILL DRILL IV (Athletic Student)

Skill Drills should be a part of any School-based AED Program. The Skill Drills are scenarios designed to practice and reinforce more realistic CPR and AED skills for trained responders/rescuers in their school setting. These drills should be reviewed annually to assure optimal performance during an actual emergency.

Purpose: Management of a sudden cardiac arrest of an athlete requiring the performance of CPR and AED with poor pad contact

and correction (drying) required. After 1st shock the victim continues to be unresponsive without breathing, but

no shock is advised.

Materials Required: •AED Trainer

• First aid kit including CPR mask/face shield, scissors, razor, and gloves

Mannequin

•Telephone (unconnected)

• Skill Drill Checklist on clipboard with pencil

Stop watch

AED Trainer Settings: Start with shockable rhythm, 1 shock, CPR 2 minutes, 1 shock, converts to non-shockable rhythm with signs of

Circulation, but not breathing, Continue CPR until EMS arrives.

Rescuer's Roles: Rescuer 1 – CPR rescuer

Rescuer 2 – 911 caller and meets EMS at front of school

Rescuer 3 – AED rescuer

Rescuer 4 – Observer/time keeper (complete Checklist for Skill Drill)

Scenario: The high school football team is practicing after school on the football field. Tom, one of the defensive players,

during practice is experiencing some shortness of breath and dizziness. Suddenly Tom collapses. You (Rescuer 1) are a part of the coaching staff and hear one of the other players call for assistance. You and another coach (Rescuer 2) with a cellular phone are the first responders to reach the student. An AED is in the field house. Begin to assess and

manage the victim now.

Assessment findings/Discussion	Expected Learner Actions				
	Rescuer 1 – CPR rescuer	Rescuer 2 – 911 caller	Rescuer 3 – AED rescuer	Rescuer 4 – Observer/time keeper	
Rescuer 1 assesses the victim. Victim is unresponsive. There is no breathing. Rescuer 2 calls EMS and arrives with first aid kit.	 Assesses victim (Check responsiveness, open airway, assess breathing). Identifies bystanders to assist with the Emergency. Simultaneously ask Rescuer 2 to notify EMS and obtain the AED/first aid kit. Puts on gloves and obtains CPR mask/face shield from team's first aid kit. Initiates CPR. 	Calls EMS/ front office. ("Student suddenly unconscious on the foorball field.") Gives Rescuer 1 team's first aid kit. Instructs Rescuer 3 to obtain AED in field house. Meets EMS at front of school.	•Runs or calls for AED in the field house.	Completes AED Skill Drill Checklist. Times drill with stop watch.	
•Rescuer 3 arrives with AED. •Victim's chest is sweaty causing poor electrode contact that requires the victim's chest to be dried before the electrodes will attach successfully. Note: Suggest solutions (pressing down on pads, check cable connections, comment "The victim is sweaty.").	•Stops CPR.		 Arrives with AED. Removes clothing. Dries chest. Turns AED "on". Attaches electrode pads. 		
 ◆Victim's initial rhythm is Ventricular Fibrillation (VF). ◆Rhythm remains VF for 1 shock. 			Clear & Analyzes. Clear & Shocks 1 time.		
• "No shock advised", victim in Normal Sinus Rhythm with signs of circulation but not breathing.	Checks for breathing.Performs CPR for 2 minutes.		Clear & Analyzes"No shock advised"		
 After 2 minutes of CPR, "No shock advised", victim continues to be unresponsive with no breathing. 	● Checks for breathing ● Continues CPR until EMS arrives and takes over.				

Review the AED Skill Drill Summary Checklist.