California State Polytechnic University, Pomona
Office of Environmental Health & Safety

Automated External Defibrillator (AED)Program

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Overview

Cal Poly Pomona has developed and implemented a program to provide access to automated external defibrillator (AED) devices in the event of a sudden cardiac arrest (SCA) in the workplace. Sudden Cardiac Arrest is commonly caused by ventricular fibrillation, where the hearts electrical impulse becomes irregular, and the heart is not able to pump oxygen rich blood throughout the body.

An AED is a medical device designed to analyze the heart rhythm and deliver an electric shock, in an effort to restore a normal heart rhythm. AEDs are to be applied to victims who are unconscious, without pulse, and show no signs of normal breathing. AEDs are used in combination with Cardiopulmonary Resuscitation (CPR) in instances of cardiac arrest.

Strategic placement of AED devices in the workplaces enables trained users and lay responders to defibrillate SCA victims quickly, greatly increasing the chance of survival. Lifesaving actions include calling 911, beginning CPR, and if needed, provide defibrillator using an AED. For each minute the defibrillation is delayed, the victim's chance of survival decreases 7-10%.

Training in CPR and the use of an AED is preferred, but not essential. Anyone can use these life saving devices by following the verbal directions provided by the unit. For those with hearing impairments, the AED also provides on screen demonstrations and written directions throughout the use.

The AED Program is managed by the Office of Environmental Health and Safety (EH&S).

Authority

California Health and Safety Code 1799.102

Known as the Good Samaritan Law, provides immunity from civil liability to a person who provides emergency care at the scene. "No person who in good faith, and not for compensation, renders emergency medical or nonmedical care at the scene of an emergency shall be liable for any civil damages resulting from any act or omission."

California Civil Code, Section 1714.21 and Health and Safety Code, Section 1797.196

These codes expanded the Good Samaritan Law to include the use an AED for the purpose of saving the life of another person in a cardiac arrest.

Scope

The purpose of this program is to provide access to AED devices for immediate response of sudden cardiac arrest in the workplace in accordance with the California Health and Safety Code, Section 1797.796, and meets the guidelines set forth by the American Heart Association and American Red Cross. The program is designed to promote training and ensure safe use and maintenance of AED devices. All university departments seeking to acquire an AED are expected to seek EH&S approval, and once approved, must comply with this policy.

Acronyms/Definitions

AED – Automated External Defibrillator or AED, is a lightweight, computerized medical device used to help those experiencing sudden cardiac arrest. The device works by analyzing the heart's rhythm and, if necessary, delivering an electrical shock, or defibrillation, to help the heart re-establish an effective rhythm.

AED Program Coordinator – EH&S is responsible for the overall coordination, implementation, and maintenance of the AED program for the University.

Authorized AED User – Refers to an individual, who successfully completed an approved automated external defibrillator program, has successfully passed appropriate competency-based written and skills examinations, and maintains continued competency in CPR and AED by participating in periodic training.

CPR – Cardiopulmonary Resuscitation or CPR, is an emergency lifesaving procedure that aims to keep blood and oxygen flowing through the body when a person's heart and breathing have stopped. This consists of artificial respirations and manual chest compressions.

EMS – Emergency Medical Services or EMS, is a qualified system that provides emergency medical care.

Lay Responder or Rescuer (LRR) – Refers to an individual that has not been professionally trained to render higher level of medical care.

SCA – Sudden Cardiac Arrest or SCA, is the abrupt loss of heart function, breathing and consciousness. The condition usually results from a problem with the heart's electrical system, which disrupts the heart's pumping action and stops blood flow to the body.

Roles and Responsibilities

AED Program Coordinator (EH&S)

- Develop and maintain a written program for the University's AED program.
- Annually review the University's AED program and make appropriate recommendations for improvement or remediation.
- Approve requests and purchases of newly authorized or replacement AED units.
- Publicize an annual list of AED locations.
- Ensure compliance with regulatory requirements.
- Maintain updated AED information on the EH&S website including:
    - AED program
    - AED locations
- Ensure quarterly inspections of AEDs and related response equipment.
- Ensure that necessary information is posted next to any installed AEDs.
- Ensure Standard Operation Procedures (SOP) be made available to all building occupants.
- Maintain compliance with all initial and recertification trainings for authorized users.

Building Marshal

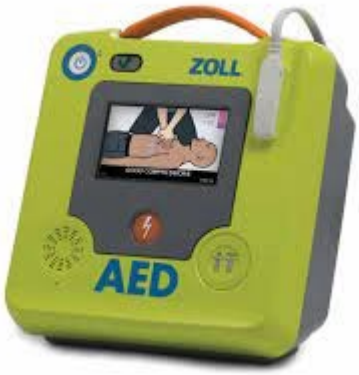
- Inform EH&S of any malfunction, abuse, or vandalism of an AED.
- Notify EH&S of any cardiac arrest incidences and the use of an AED.
- Maintain a copy of this program for all building occupants.
- Maintain a copy of the user manual/instructions for the AED.
- Notify tenants of the location(s) of AED(s) within the building.

AED Equipment

The Zoll 3 AED has been approved for use in the AED program. Supplies and accessories will be provided and maintained for all AEDs and must remain with the unit. Only equipment approved by EH&S may be used.

Each AED shall include the following items:

1. One set of adult/pediatric defibrillation electrodes, connected to the device.
2. One AED response Kit: two pairs of gloves, one disposable razor, one pair of trauma shears, two gauze pads, one antiseptic towelette, one pocket mask barrier device.



Authorized AED Users/Lay Responders and Rescuers

AEDs may be used effectively by untrained users, because of their ease of use. The California Civil Code 1714.2/1714.21 allows for use of AEDs by individuals who have not been trained in First Aid/CPR/AED. Lay Rescuers and Responders (LRR) can, at their discretion, provide voluntary assistance to victims of medical emergencies. The LRR are encouraged to contribute to emergency response only to the extent they are comfortable. The emergency medical response of these individuals may include CPR, AED use or medical first aid.

Training

Supervisors are responsible for ensuring that all training records of authorized users are current and maintained.

For those interested in taking First Aid/CPR/AED training, please contact ASICPP for more details at asisafety@cpp.edu

Emergency Response Procedures

Internal Emergency Response Plan

In accordance with the American Heart Association's guidelines; the following adult "Chain of Survival" will be utilized:

1. Early access to EMS – Recognize an emergency exists, **immediately call 911**. Means of notifying EMS include but are not limited to blue light phones which directly route to CSUF Police, and all campus building phones will reach CSUF Police by dialing 911.

2. Early CPR – CPR should be started immediately after cardiac arrest. Chest compressions circulates oxygen rich blood to the brain and heart. This action should be provided for the victim until defibrillation can be performed.

3. Early Defibrillation – If needed, defibrillate the victim as soon as the AED arrives. This is most effective within 1 to 5 minutes.

4. Early Advanced Care – Ensure trained healthcare providers are responding to provide advanced care.

All AED activations with or without an administered shock shall be reported to the AED Program Coordinator for the purpose of a review and to ensure the AED is restored to readiness as soon as possible.

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Appendix A: Rescue Reference Guide

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Appendix B: AED Contact List

Office of Environmental Health and Safety

Phone number: (909) 869- 4697

Email address**: ehs@cpp.edu**

EH&S Director

Erick Guandique

Office number: (909) 869- 4987

Email address: eguandique@cpp.edu

CPP Foundation/Enterprises EH&S Program Manager

Hui Chieng, MS, REHS

Email address: hchieng@cpp.edu

CPP Associated Students, Inc (ASI)- Associate Director of Operations

Vic Martin, Jr.

Office number: (909) 979-5028

Email address: vlmartin@cpp.edu

University Police Department

Emergency: 9-1-1

Non-Emergency: (909) 869- 3070

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Appendix C: AED Locations

State Buildings

Building	Location	Building	Location
1	1st and 3rd floor	**45**	Left side entrance
2	2nd floor	**54**	Main entrance
3	1st and 2nd floor	**60**	Main entrance
4	1st and 3rd floor	**61**	Main entrance
5	1st and floor	**62**	Main entrance
6	1st and 2nd floor	**63**	Main entrance
7	1st and 2nd floor	**67**	End of hallway
8	Ground floor	**73**	Main entrance
9	2nd and 4th floor	**74**	Main entrance
13	1st floor	**79**	Front/back entrance
15	1st-5th floor	**81A**	Kitchen
17	1st, 2nd, Bill's Shop	**81**	Hallway
20	Main entrance	**89**	Left side in the back
21	Main entrance	**92**	Front door
22	Main entrance	**94**	1st and 3rd floor
23	Main entrance	**121**	East and West 2nd floor
24	1st floor	**162**	Lecture hall 1002
26	Room 110	**163**	Main entrance
32	Main entrance	**164**	1st floor
38	Main entrance	**Police car**	1-10
43	Classroom		

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CPP Enterprises Buildings

Building	Location	Building	Location
IBW-220	1st floor	**CenterPoint-72**	Main Entrance
Enterprises Office-55	Main Entrance	**Kellog West-76**	Main and Back Entrance
Bookstore-66	1st floor	**Campus Center-97**	1st floor

ASI Buildings

Building	Location	Building	Location
BRIC-42	1st, 2nd, and 3rd floors	**BSC-35**	Game room
BRIC-42	Pool	**BSC-35**	C & E desk
BRIC-42	Scuba storage	**BSC-35**	Food court
BRIC-42	Admin suite (2)	**BSC-35**	Upper lobby
BRIC-42	Lifeguard Office (1009)	**BSC-35**	Solaris corridor

CPP Housing Buildings

Building	Location	Building	Location
Encinitas Hall-20	Lobby	**Secoya Hall-74**	Lobby
Montecito Hall-21	Lobby	**Vista de las Estrellas-54**	Lobby
Alamitos Hal- 22	Lobby	**Vista Bonita-60**	Lobby
Aliso Hall-23	Lobby	**Vista del Sol-61**	Lobby
Sicomoro Hall-73	Lobby	**Vista de las Montanas-62**	Lobby
Luna-63	Lobby		

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Appendix D: Map of AEDs location on campus

Responsible Executive:

Vice President Administrative Affairs

Responsible Office:

Office of Environmental Health and Safety (EH&S)

Document History

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