



Introduction to Safety – Unit Five: Electrical Safety

Lab Exercise 1: Electrical Shock First Aid

Student Name: _____

Materials Needed:

- CPR Training Dummy or person acting as the shock victim
- CPR Face Shield
- Blanket
- De-energized wire
- Another person to get help or a cell phone

Description of Topic

- Electricity is the primary power source that provides energy to our homes, businesses and factories. It is also a very safe source of energy because of regulations that must be observed when designing and building electrical wiring in distribution systems and equipment. Also, inspections are typically required to ensure that everything is constructed correctly before being put to use. However, electrical hazards exist when there is a malfunction, safeguards are bypassed, or modified, or if the proper procedures are not followed by technicians when working on equipment.
- If a person comes in contact with a live conductor and electricity passes through their body, it will result in an electrical shock. The severity of the shock depends on the resistance of the body, the path the current takes, the amount of current flow, the physical condition of the person receiving the shock. When treating the victim that needs help, the probability of survival may depend on whether or not they receive the proper treatment.
- In this lab exercise, you will demonstrate your knowledge on the procedure that is required to treat an electrical shock victim.

Objective

- The student will demonstrate the proper procedure of performing first aid to a victim who has received an electrical shock.

Lab A

- This lab assignment will require that you research and rehearse a simulated situation where you come upon a person who is receiving an electrical shock while holding onto a live wire.
- You will be required to work with a lab partner. One of you will be the victim and the other person will be the individual who performs first aid. Both of you will receive equal credit for your demonstration.
- After you learn about the 5-step procedure in a lecture or by completing the reading assignment, prepare and rehearse the first aid procedure, make an appointment with your instructor and give the demonstration.





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Grading Rubric

Below is an example of a rubric to implement when evaluating the performance of individual students for each of the laboratory exercises.

	Excellent 5 pts	Good 4 pts	Fair 3 pts	Poor 2 pts	Unacceptable 1 pts	Grade Received (N/A)
Ability to Follow Directions	Excellent Followed directions to the letter.	Good Followed directions.	Fair Moderately followed directions.	Poor Did not follow directions.	Unacceptable Did not appear concerned with directions.	Grade Received
Demonstrate Knowledge of Tools	Excellent Student knows and is able to identify and explain necessary tools for completion of the project.	Good Student is able to identify and explain necessary tools for completion of the project with some assistance.	Fair Student is unable to identify or use tools without major prompting.	Poor Student is not able to both identify and use tools.	Unacceptable Student's use of tools posed a danger to self and others.	Grade Received
Level of Needed Assistance	Excellent Student was able to complete the task without assistance.	Good Student was able to complete the task with little assistance.	Fair Student was able to complete the task with moderate assistance.	Poor Student was unable to complete task without major assistance.	Unacceptable Student was unable to complete task with assistance.	Grade Received





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	Excellent 5 pts	Good 4 pts	Fair 3 pts	Poor 2 pts	Unacceptable 1 pts	Grade Received (N/A)
Student Preparedness	Excellent Student had/gathered all materials and was completely ready to go to work.	Good Student had/gathered most materials and went to work.	Fair Student had/gathered most materials, however, they needed excess time to do so.	Poor Student did not have/gather some of the needed materials to perform work.	Unacceptable Student did not have/gather the needed materials and was unable to perform work.	Grade Received
Time Management	Excellent Routinely used time well throughout the project to get the job done on time.	Good Used time fairly well throughout the project.	Fair Procrastinated somewhat but did get the job done on time.	Poor Was unable to adequately meet timeline due to inability.	Unacceptable Did not meet timeline due to procrastination or wasting time.	Grade Received





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