LOS ANGELES UNIFIED SCHOOL DISTRICT DIVISION OF ADULT AND CAREER EDUCATION

SAFETY TEST FOR ELECTRICIAN PROGRAM

| Schoo | ol: Indu | stry Sector: | Energy, E | nvironment | & Utilities |
|--------|---|---------------|---------------|---------------|-------------|
| Class | | | Date: | | |
| Teach | ner: | | Room: | | |
| (Plea | se Print) | | _ | | |
| Your | Name: | | Phone: _ | | |
| | (Last) (First) | | | | |
| Date | of Birth: Age: | Emai | l: | | |
| Addr | ess: | | | | |
| | (Street) | (City) | | (Zip |) |
| In Ca | se of Accident, Notify: | P | hone: | | |
| To the | e Student: | | | | |
| safety | e instructions are an important part of training in the Electric rules and precautions. Habits of carelessness or of failure t the class. | | | | |
| | udents are required to learn these safety rules as part of ctions are taught in the classroom about the various opera | | | • | |
| | udents will be required to pass this safety examination wi ination indicating that you have received these instruction | | racy and to s | sign the back | page of thi |
| This t | test must be on file in the school records for 5 years. | | | | |
| Direct | ions: Mark "T" for true if the following statements a of the statement is untrue. The first statemen | - | - | | any part |
| 0. | Most accidents in the classroom are due to unsafe a | cts by peopl | e. | | T |
| 1. | All classroom injuries and accidents must be reported | | | • | |
| 2. | , | • | | | |
| 3. | It is permissible to store heavy items on top of file c | | oookcases a | s long as | |
| | nothing is stored within 18" of the sprinkler system. | | | | |
| 4. | Objects or materials must be passed carefully to or | | | • | |
| 5. | You may lift or carry heavy boxes or equipment in so | chool less th | an 25 lbs. us | ing | |
| 6 | proper lifting techniques. Any frayed cord or even the slightest shock or spark | from alactri | cal wire or | | |
| 6. | connections must be reported to the instructor imm | | cai wiie oi | | |
| 7. | | - | or a machin | e needs | · |
| ,. | repair, it is permissible to make the needed repair a the instructor. | | | | |
| 8. | | ules and the | Health Cod | e. | |

| 9. 10. | All four legs/wheels of the chair must be on the floor. Tilting back can cause the loss of balance. | | |
|------------|--|----------|--|
| Direct | tions: Complete the following statements by writing the appropriate word or words in t spaces in the right margin only. | he blank | |
| "THIN | IK SAFETY"/TRUE OR FALSE | | |
| 11. | You are permitted to work on any equipment or machinery at any time without instructor present. | | |
| 12. | If in doubt about any machine, check with the instructor. | | |
| 13. | One person should carry long pieces of material carefully. | | |
| 14. | Aisles and working areas must be kept clear of debris. | | |
| 15. | Pass sharp-edged tools blade first to another student. | | |
| 16. | Two hardened surfaces should not be struck together. | | |
| 17. | Sharp hand tools should be carried in your pocket. | | |
| 18. | Fuses must be pulled with power on. | | |
| 19. | Disconnect switches should never be by-passed. | | |
| 20. | Cords should not be used that have defective plugs or worn insulation. | | |
| 21. | Battery solution burns skin and clothing because it contains acid. | | |
| 22. | Keep all tools off the tops of batteries. | | |
| 23. | Always connect or disconnect a battery while a charger is on. | | |
| 24. | Do not operate the drill with moist hands. | | |
| 25. 26. | When tightening the drill chuck, make certain the drill is not accidently turned on. When using heavy drills, brace the body well and hold the drill with both hands. | | |
| 27. | To prevent work from being torn from your grasp, work should be securely clamped to the table or held in a vise. | | |
| 28. | When the drill begins to break through the work, you should increase the pressure. | | |
| 29. | Chips should be removed from the drill press table by hand. | | |
| 30. | When testing batteries, use proper PPE and keep your face at a safe distance. | | |
| 31. | Do not inhale fumes of fluxes or cleaners. | | |
| 31. | | | |
| | tions: Choose the best answer from the (a), (b), (c), or (d) choices to complete each state. Write the letter of your choice on the line provided in the right margin. A fall protection system must be in place for all work done at heights in excess of: a. 4 feet b. 6 feet c. 8 feet d. 10 feet | ement. | |
| | - | | |

| 33. | fall when working at heights. a. 10 mA b. 30 mA c. 50 mA d. 75 mA | |
|-----|---|--|
| 34. | Electrical currents as low asmA can cause a rapid irregular heartbeat and lead to death in a few minutes. a. 10 mA b. 30 mA c. 50 mA d. 75 mA | |
| 35. | Lockout and tagging is used to: a. Prevent unknowing individuals from energizing electrical circuits while they are being serviced or maintained. b. Disable a PV system from being interconnected to the utility grid until inspections have been passed. c. Identify and isolate defective components in an electrical system until service can be performed. d. Identify hazards that must be removed prior to energizing equipment. | |
| 36. | OSHA requires that fall protection be used for walkways and ramps, holes and excavations, roofs, and wall openings. Where a worker can fall feet or more. a. 4 b. 6 c. 8 d. 10 | |
| 37. | Guardrails used to protect open-sided floors and platforms must have top rails tall, a mid-rail and toe boards. a. Between 36 and 42 inches b. Between 36 and 45 inches c. Between 39 and 45 inches d. Exactly 42 inches | |
| 38. | Toe boards on guardrail systems must be high: a. 3 inches b. 3 ½ inches c. 4 inches d. 4 ½ inches | |

| 39. | Handrails must be capable of withstanding a force of pounds. | |
|-----|--|--|
| | a. 150 | |
| | b. 200 | |
| | c. 250 | |
| | d. 300 | |
| 40. | A 24-foot extension ladder is used to access an upper landing 20 feet off the ground. How far should the base of the ladder be positioned back from the point the ladder makes contact with the upper landing? a. 4 feet b. 5 feet c. 6 feet d. 8 feet | |
| 41. | What is the minimum length of a ladder required to access a roof surface 12 feet off the ground? a. 12.3 feet b. 15.4 feet c. 17.2 feet d. 20 feet | |
| 42. | Ladders used where the employee or ladder could contact exposed energized electrical equipment must have: a. Electrical rating b. Grounding means c. Insulated rungs d. Non-conductive side rails | |
| 43. | What class of hardhat offers the maximum head protection from impacts and electrical shock? a. Class A b. Class III c. Class B d. Class C | |
| 44. | Employee responsibilities for PPE include which of the following? a. Assessing the work place for hazards. b. Determining when to use PPE. c. Providing PPE gear. d. Using PPE in accordance with training instructions. | |

- 45. What PPE would be most important when operating a power drill?
 - a. Ear plugs
 - b. Gloves
 - c. Goggles
 - d. Shoes
- 46. If no specific fall protection system is in place, according to OSHA, it is acceptable to provide fall protection by using a person competent in recognition of fall hazards who:
 - a. Monitors the operation on closed circuit TV and is in contact with the crew by walkie-talkie.
 - b. Is part of the work crew who is capable of warning other workers.
 - c. Is not part of the work crew, but who is stationed at the level of the work crew within sight of and speaking distance of the crew, who is capable of warning other workers.
 - d. Provides safety instructions to the crew before the crew begins work
- 47. Before working with any machines, equipment, or power tools in the shop, you must:
 - a. Pass a safety test and be sure there's an instructor in the shop
 - b. Learn how to turn on the machines
 - c. Check each machine by turning it on for a short time
 - d. Have prior experience on the machine, equipment, or tool
- 48. When there is even the slightest accident, injury, or illness in the shop, you should first:
 - a. Tell your instructor
 - b. Get the first aid kit and use it
 - c. Get the injured person to the nurse
 - d. Put a Band-Aid on the injury and continue working
- 49. Whenever you find broken tools, an unsafe shop condition, or a machine in need of repair, you should first:
 - a. Make the needed repair at once
 - b. Use the tool, complete the repair and then report the broken tool
 - c. Report the condition to your instructor
 - d. Warn your classmates to be careful
- 50. Since loose clothing, ties, dangling jewelry and long hair could get caught in moving parts or machines, you should:
 - a. Get another student to help you
 - b. Get your hair cut before using machinery
 - c. Stay away from such machinery
 - d. Wear properly fitting clothes and tuck in all loose ends before working on a project

- 51. To protect your feet from falling objects, spilled acid, or objects on the floor of the shop, you should wear:
 - a. Sneakers
 - b. Sandals
 - c. Solid shoes with full tops, preferably with rubber soles and heels
 - d. Shoes with full tops and oil resistant soles
- 52. When lifting heavy objects, keep your back and head as straight as possible, and use your:
 - a. Arm muscles
 - b. Back muscles
 - c. Leg muscles
 - d. Stomach muscles
- 53. Lifting heavy objects and carrying long pieces should be done by:
 - a. More than one person
 - b. Someone else
 - c. Knocking obstacles out of your way
 - d. All the above
- 54. In case a fire begins in the shop, you should first:
 - a. Know where fire extinguishers are and how to use them
 - b. Report the fire and follow only your instructor's directions
 - c. Know how to turn off the power machinery
 - d. All the above
- 55. Spilled liquids on the floor should be cleaned up to prevent:
 - a. Fire
 - b. Slips and falls
 - c. Both a and b
 - d. Neither a nor b
- 56. When working with an A frame ladder:
 - a. It is acceptable to stand on the top step
 - b. It is acceptable for two people to work on the ladder at the same time
 - c. It is acceptable for one leg to be broken or uneven
 - d. Do not stand on the top two steps as you may lose your balance
- 57. Extension ladders:
 - a. Should be carried by at least two people
 - b. Can be used for scaffolding planks
 - c. Should not exceed the specified load limit
 - d. A and C

- 58. When working on or around electrical items, use a:
 - a. Wood ladder
 - b. Metal ladder
 - c. Fiberglass ladder
 - d. All the above
- 59. The top of an extension ladder must extend above the roof or platform at least:
 - a. 36"
 - b. 6"
 - c. Two feet
 - d. 12"
- 60. When working around ladders, it is important to:
 - a. Wear a hard hat
 - b. Wear safety goggles
 - c. Never work under a ladder if someone is on the ladder
 - d. Have someone hold the ladder for you while you are on it
- 61. Never carry sharp-edged tools in your pocket or with the point toward your body because:
 - a. You'll get hurt if you slip and bump against them
 - b. They will ruin your clothes
 - c. You'll forget where you left them
 - d. Someone else might be injured
- 62. When you work with a screwdriver:
 - a. Be sure the tip is not worn, chipped, or broken
 - b. Hold your work in the palm of your hand
 - c. Use any sized tip since it will probably do the job
 - d. Keep both hands on the screwdriver
- 63. When operating power machinery, the first thing to do in an emergency is to:
 - a. Turn the power off
 - b. Finish the job and then report the trouble
 - c. Get away from the machine fast
 - d. Notify your instructor
- 64. The power must be off when you are oiling, cleaning, or adjusting any power equipment to:
 - a. Save electricity
 - b. Keep your attention on your work
 - c. Prevent catching your hands or clothing in moving parts
 - d. None of the above
- 65. Before you start a power machine, be sure that you:
 - a. Get your instructor's instructions and permission
 - b. Keep your attention on your work
 - c. Prevent catching your hands or clothing in moving parts
 - d. None of the above

- 66. When a student is using power tools:
 - a. Do not in any way distract the operator of the tool
 - b. Start and stop the machine to help the operator
 - c. Make sure the operator stands in front of the blade
 - d. Let the blade continue to run after the work is finished
- 67. When drilling a small piece of material:
 - a. Hold it in your lap
 - b. Never hold it in your hand
 - c. Use extra pressure
 - d. Use pliers to hold the material
- 68. Use the proper ______ for the material you are cutting.
 - a. blade
 - b. device
 - c. stance
 - d. clothing

| Student | Instructor |
|--|---|
| THIS IS TO CERTIFY that I have received instructions on safety precautions in my Electrician class. | THIS IS TO CERTIFY that |
| The teacher demonstrated to me how to use tools, equipment and chemicals safely and correctly. I will observe all safety precautions. If ever in doubt | (name of student) |
| regarding any operations, I will obtain the necessary information from my teacher. | has been given safety instructions in my class. |
| ,,,,, | I demonstrated the proper use of tools, equipment and chemicals in the class and this student passed this written safety test with 100% accuracy. |
| (Student Signature) (Date) | (Teacher Signature) (Date) |

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