

Delphi ELITE Safety Quiz

Team 48

Mission Statement

Our mission is to maintain gracious professionalism while being a positive influence to other teams, through the demonstration of good safety practices and procedures.

FILL IN / MULTIPLE CHOICE

1) What does MSDS stand for?

M
S
D
S

2) What are MSDS used for?

- A. Data sheets collected on all tools.
- B. Forms that list all equipment that is safe to use.
- C. Safety sheets obtained for chemicals, paint, and batteries, etc. that the team uses.

3) What does PPE stand for?

P
P
E

4) The best way to remove a particle stuck in the eye is to:

- A. Carefully remove it with tweezers
- B. Flush it out with water
- C. Blow it out with air
- D. All of the above

5) What are mechanical guards?

- A. Shield for the robot
- B. Safety guards for power tools
- C. Bouncers for the robot

6) What are 5 examples of PPE?

7) You should wear _____ shoes at the competition.

- A. Flip-Flop
- B. Croc
- C. Closed-toe / Closed-Heel
- D. Platform

- 8) What should not be worn around moving or rotating machinery?
- A. Ties
 - B. Loose clothing
 - C. Jewelry / hanging key chains / headphones
 - D. all of the above
- 9) What are the four objectives to keep the pit clean for inspection?
- 1.
 - 2.
 - 3.
 - 4.
- 10) If needed to solder you should...
- A. use lead-free, electrically heated iron/gun
 - B. have no torches or open flames
 - C. be in a well-ventilated area
 - D. wash your hands with soap and water after
 - E. all of the above
- 11) What should be used to neutralize a leaking battery?
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- 12) What should you do with the battery once it has been cleaned up?
- A. Throw it in the trash can nearest to you because it can be dangerous to others
 - B. Leave it alone and wait for further direction because it could be toxic
 - C. Properly dispose of it because it is a hazardous material
- 13) You shouldn't contact battery terminals simultaneously with one piece of metal. Why?
- A. It could short circuit the battery causing it to explode
 - B. You could electrocute yourself from the battery and the metal touching it
 - C. It could render the battery useless
- 14) What does OSHA stand for and what is their purpose?
- O**
S
H
A
-
- 15) What is the approved standard for regulation safety glasses?
- A. Z87
 - B. S78
 - C. X73
 - D. Z43

- 16) What are approved safety glasses?
- A. non-shaded, ANSI
 - B. non-reflective
 - C. blue, rose, or amber tinted
 - D. all of the above
- 17) What is the height limit for all portions of the pit including banners and signs?
- A. 12 feet
 - B. 10 feet
 - C. 8 feet
- 18) Which of these power setups is acceptable?
- A. extension cord plugged into a power strip
 - B. extension cord plugged into another extension cord
 - C. extension cord plugged into a wall outlet
- 19) When using the practice field always _____.
- A. clean up after yourself
 - B. wear safety glasses and use proper lifting techniques
 - C. pick up any foreign materials
 - D. all the above
 - E. only B and C
- 20) How many people should be there to lift the robot?
- A. as many as can lift it
 - B. 2-4
 - C. as many people as it weighs
- 21) What does UL stand for?
- _____
- 22) UL sponsors the _____ and _____ Program.
- A. Safety, Truth, and Honor
 - B. Safety, Awareness, and Recognition
 - C. Safety, Respect, and Integrity
- 23) What are the three key areas that Safety Advisors will rate?
- 1.
 - 2.
 - 3.
- 24) What is H_2SO_4 ?
- A. sulfuric acid
 - B. the chemical inside batteries
 - C. the chemical used in heavy duty cleaner
 - D. both A and B

- 25) Keep the aisle clear for _____ and _____.
- A. pedestrians and robot transit
 - B. robots only
 - C. pedestrians and other VIPs
- 26) What color are the shirts of the Safety Advisors?

- 27) Always de-energize the robot before working on it by unplugging the _____ and _____ batteries.
- A. AA and AAA
 - B. 9V and AAAAA
 - C. 12V and 7.2V
 - D. AA and Button Cell
- 28) People with long hair should....
- A. pull it back
 - B. cut it off
 - C. wear a hair net/hat
 - D. A and C
- 29) Name the classes of fire extinguishers.
- A:
 - B:
 - C:
 - D:
- 30) What are the steps in using a fire extinguisher?
- P**
 - A**
 - S**
 - S**
- 31) How do you carry sharp, pointy objects?
- A. in your palm, pointed end away
 - B. very carefully
 - C. by the handle
- 32) A Lockout Tag-Out is used to...
- A. lock broken devices
 - B. indicate the device is broken
 - C. break dangerous machines
 - D. A and B
- 33) If an injury occurs, what is required to be filled out?
- A. an emergency form
 - B. an incident report sheet
 - C. nothing, just deal with the injury

- 34) If any injury occurs, you should _____.
- A. Get a First Aid kit
 - B. Find an adult
 - C. Fill out an Incident Report Form
 - D. A, B and C

TRUE or FALSE

- 35) You are not allowed to eat and drink in the pit area.
True or False
- 36) Prescription glasses are considered to be approved safety glasses.
True or False
- 37) Headphones or earbuds are appropriate substitutes for earplugs / earmuffs.
True or False
- 38) Safety glasses are not needed when cleaning the workshop.
True or False
- 39) You only need to be aware of pinch points when a machine is running.
True or False
- 40) When at a competition, safety glasses are only needed when working on the robot in the pit area.
True or False
- 41) Leather work gloves are used to protect against heat, electrical, chemical, water, radiation and mechanical hazards.
True or False
- 42) During competitions, horseplay is only permitted on the designated practice field in the pit area.
True or False
- 43) When cutting with knives and razors, you should always cut on the floor, toward your body and hands, in a Northward direction.
True or False
- 44) When at a competition, it is only permissible to safely run through the pits when a time out is called to make emergency repairs to your robot during the Finals matches.
True or False
- 45) When lifting the robot on and off the field, always make sure there is a secure lift point, keep your back straight and lift with your legs.
True or False

46) FRC teams and/or team members can only earn safety tokens for good safety practices from the Safety Advisors.
True or False

47) **SHORT ANSWER / ESSAY #1**

Explain the difference between dust masks and respirators. Explain what each protects against and give 3 examples each of how/when each would be used.

48) **SHORT ANSWER / ESSAY #2**

What does the company "UL" do, when and where was it founded and by whom?
Name one very popular product that UL refuses to certify.