

Team 4909 Week 3 Safety Quiz

Name: _____

1. What is the purpose of the orange robot signal light on FRC robots?
 - a. To indicate when the robot is enabled
 - b. To indicate when the robot is powered off
 - c. To indicate when the robot is powered on
 - d. To indicate when the robot is disabled

2. FRC Robots that use Pneumatics must: (Circle all that apply)
 - a. Have a Pressure Relief Valve on the robot calibrated to 125 PSI
 - b. Have at least one air storage tank on the robot
 - c. Have a Compressor on the robot
 - d. Have a Pressure Regulator with working high and low pressure gauges
 - e. Have a pressure vent plug or valve
 - f. Have a Pressure Switch to control the Compressor

3. Should any beverages be near the robot?
 - a. No liquids should be near the robot
 - b. If there is a cap on the bottle it is allowed
 - c. If the robot is disabled it is allowed

4. What is the largest Circuit Breaker Value that can be used with a motor controller according to the rules in the game manual?
 - a. 40 A
 - b. 50 A
 - c. 20 A
 - d. 30 A

5. All motor controllers must be controlled via signals from the RoboRio?
 - a. False
 - b. True

6. How should you pick up a battery?
 - a. Pick it up by the wires
 - b. Pick it up from the bottom or sides with two hands
 - c. Pick it up by the top with two hands

7. Before working on the robot what should be done?
 - a. Turn the robot off
 - b. Get the tools needed
 - c. De-Energize the robot, vent all stored air pressure, secure other energy storage systems
 - d. Clean up after

8. Before working on the electrical components with the robot, what should you do?
 - a. Leave the robot running
 - b. Turn off the robot or de-energize the circuit

9. What gauge wire must be used for circuits with 31 amp to 40 amp circuit breakers according to the rules in the game manual?
 - a. 6 AWG
 - b. 14 AWG
 - c. 00 AWG
 - d. 12 AWG

10. What gauge wire must be used to connect the Battery to the Robot's Power Distribution Panel?
 - a. 00 AWG
 - b. 1 AWG
 - c. 6 AWG or larger
 - d. 12 AWG

Answer Key

1. A & C
2. A, C, D, E, F
3. A
4. A
5. B
6. B
7. C
8. B
9. D
10. C