

# PWNAGE

## team safety & rules test 2019



### Safety Rules

1. Any dangerous conditions in the pit or work areas must be reported to a mentor
  - a. When convenient
  - b. **At once**
  - c. At the end of the meeting
  - d. Never
2. Guards and other safety devices are for your protection. Always
  - a. Remove them
  - b. Cover them
  - c. **Keep them in place**
  - d. Move them out of the way
3. Disturbing another student while he is working is
  - a. Helpful
  - b. Poor manners
  - c. Good practice
  - d. **Dangerous and wasteful**
4. Do not carry sharp or pointed tools or materials in your clothing. Hold sharp points or edges
  - a. Up
  - b. Towards yourself
  - c. In your hands
  - d. **Down and away from yourself and others**
5. Before being allowed to work with hand or power tools, all jewelry must be
  - a. **Removed**
  - b. adjusted
  - c. Left on
  - d. Carefully watched
6. When using sharp-edged tools, you should always cut with
  - a. The tool pointed away
  - b. The tool pointed towards you
  - c. The dull edge of the tool
  - d. **The edge of the tool down**
7. All power tools must be operated by this many person(s)
  - a. Several
  - b. **One**
  - c. Two
  - d. Three
8. When working with a ROBOT that is powered on
  - a. Wear safety glasses
  - b. Reach your hand into it
  - c. Stay out of its driving path
  - d. **A & C**
9. When using a powered hand tool you should never
  - a. Hold it firmly
  - b. Use the trigger lock
  - c. **Overreach**
  - d. Stop until the cut or hole is made
10. It is okay to eat food while operating a power tool
  - a. True
  - b. **False**
11. It is okay to distract a student who is operating a ROBOT
  - a. True
  - b. **False**
12. You should know what is behind any cut or hole to be made with a power tool
  - a. **True**
  - b. False
13. You don't have to wear safety glasses in the pit/ workshop if you are not using a power tool
  - a. True
  - b. **False**
14. Always wear safety glasses when near an operational ROBOT
  - a. **True**
  - b. False
15. Students are permitted to use the vertical ban or blue drop saw on the light side of the shop without a mentor supervising them
  - a. True
  - b. **False**
16. What should be done with damaged batteries?
  - a. Put on gloves before handling the battery

- b. Place the battery in a leak proof container
  - c. Seek medical attention if skin came in contact
  - d. **All of the above**
17. Where can you find information about chemicals in our pit?
- a. **Safety Data Sheets found in the safety binder in the pit**
  - b. On Team Snap
  - c. Ask the mascot, they have them with them at all times
  - d. Not applicable. Our team doesn't have chemicals
18. Which chemical safety procedures should you follow...
- a. Keep chemical containers in good condition
  - b. Make sure all containers have labels
  - c. Make sure all labels are legible
  - d. **All of the above**
19. What type of safety glasses are not permitted by FIRST
- a. Prescription
  - b. **Mirrored lenses**
  - c. The type you wear over other prescription glasses
  - d. Glasses with side protection
20. You only need to wear closed toed shoes when working on the ROBOT
- a. True
  - b. **False**
21. What must you do before you lift your ROBOT onto a cart?
- a. **Open the main circuit breaker**
  - b. Remove the bumpers
  - c. Wait for a thumbs up from the HEAD REFEREE
  - d. All of the above
22. As with all violations in the Game Manual, any of the Event Experience rules also carry the consequence of a
- a. Time Out
  - b. **Yellow or Red card**
  - c. Two ranking point penalty
  - d. Disqualified for the season
23. What is the penalty for a technical foul?
- a. **10 point credit to the opponent's total score**
  - b. 15 points credit to the opponent's total score
  - c. 1 point credit to the opponent's total score
  - d. 25 points credit to the opponent's total score
24. How many alliance robots are allowed on the opponent's side of the field at a time?
- a. 3
  - b. 2
  - c. **1**
  - d. 0
25. DRIVE TEAMS may only enter the FIELD if ....
- a. the LED strings are green
  - b. the ROBOT isn't responding
  - c. unless explicitly instructed by a REFEREE or an FTA
  - d. B & C
  - e. **A & C**
26. How do you enter the game field?
- a. Carefully step over the guardrail when the lights are green
  - b. **Enter through the gates opened by FTA or field staff when the lights are green**
  - c. Open a gate and enter when the lights are green
  - d. When the game is complete, you may open the nearest gate and enter.
27. During the game, DRIVE TEAMS or human players
- a. May extend an arm or device through the exchange tunnel if a cube is stuck
  - b. **Will receive a foul if they extend an arm through a chute or tunnel**
  - c. May use the portal chute to make ROBOT adjustments
  - d. May enter a tunnel if it is for less than one minute.
28. "Being a good person" is an actual rule

## Deep Space! Rules

- a. True, you must be civil towards your own team members, other teams, competition personnel, FIELD STAFF, and event attendees while at a FIRST® Robotics Competition event
- b. False, this is assumed, no one needs to be told to be nice.
29. A team may.....
- a. Only compete with one ROBOT at each competition, but have multiple ROBOTS to use at additional competitions.
- b. Only compete with one ROBOT for the 2019 FIRST Robotics Competition Season.
- c. May only create one ROBOT during the 2019 FIRST Robotics Competition Season
30. A ROBOT other than the one entered for competition may be brought to a competition for spare parts, judging material or for practice.
- a. True
- b. False
31. If a team has an issue with a referee ruling or an incident during a match, two students from it's DRIVE TEAM and a mentor may address the Head Referee.
- a. True
- b. False
32. Throughout an event, from load-in to load-out, Teams may only produce FABRICATED ITEMS during pit hours, and:
- a. In their pit area or in other Teams' pit areas with permission from that team
- b. While Queued for a MATCH or Practice Field
- c. In any area designated by Event Staff (e.g. Playoff Pit Area, etc.)
- d. All (A,B and C)
- e. None of the above
33. Prior to a match, the ROBOT is placed on the field. The ROBOT must:
- a. Have passed Inspection
- b. Be the only item left on the field by the DRIVE TEAM.
- c. confined to its STARTING CONFIGURATION on the carpet
- d. In contact with its ALLIANCE WALL
- e. All of the above.
34. At the start of a match, how many game pieces can be preloaded in a team's ROBOT?
- a. 1
- b. 2
- c. One of each
- d. None
35. Which of the following would NOT result in a team receiving a yellow card or having their ROBOT disabled for the match:
- a. Late arrival to the field.
- b. Team members failing to exit the FIELD once the LED strings have turned off (indicating MATCH ready)
- c. installing BUMPERS, charging pneumatic systems, or any other ROBOT maintenance, once on the FIELD
- d. Using a tape measure or other alignment device that are external to the ROBOT
36. Prior to the start of the MATCH, HUMAN PLAYERS must be...
- a. Either in their ALLIANCE STATION or HUMAN PLAYER AREA
- b. In their ALLIANCE STATION between the two start lines
- c. In their designated area in the HUMAN PLAYER AREA
- d. ALL DRIVE TEAM MEMBERS must be outside the ALLIANCE STATION
37. ROBOTS may not pin an opponent's ROBOT for more than five (5) seconds. A ROBOT will be considered pinned until the ROBOTS have separated by
- a. at least six (6) feet and the pinning ROBOT(s) must then wait for at least three (3) seconds before attempting to pin the same ROBOT again.
- b. at least two (2) feet and the pinning ROBOT(s) are not allowed to pin the same ROBOT during the match.
- c. at least ten (10) seconds.
- d. at least five (5) seconds and the pinning ROBOT(s) must then return to their end of the field before pinning again.
38. Your ROBOT is allowed to climb on another ROBOT....

- a. During the autonomous period
  - b. To attempt to right a fallen (i.e. tipped over) ALLIANCE partner
  - c. To pin an opponent's ROBOT
  - d. NEVER
39. Who can control the ROBOT during a match?
- a. Drive team mentor
  - b. Any member of the team
  - c. Any student member on the drive team
  - d. The driver from an alliance partner
40. After pit hours at a competition, your team is allowed to bring parts or mechanisms off sight to finish working on them.
- a. True
  - b. False
41. How many bags is a team allowed to use to "bag" their ROBOT this season?
- a. 1
  - b. 2
  - c. 3
  - d. 4
42. During a MATCH, DRIVE TEAMS may not use electronic devices which have the capability of receiving communications from persons outside of the ARENA.
- a. True
  - b. False
43. During a Playoff MATCH, the ALLIANCE CAPTAIN must be clearly displaying the designated ALLIANCE CAPTAIN identifier (e.g. hat or armband)
- a. True
  - b. False
44. During a MATCH, TECHNICIANS may not verbally coach or use non-powered signaling devices. Exceptions will be granted for inconsequential infractions and in cases concerning...
- a. HUMAN PLAYERS
  - b. Safety
  - c. Strategy
  - d. Scouting
45. The Sandstorm Period is the first \_\_\_\_\_ seconds of a match...
- a. 5
  - b. 15
  - c. 30
  - d. 60
46. What happens when you get a FOUL?
- a. A credit of 5 points awarded to the opponent's total score
  - b. A credit of 4 points awarded to the opponent's total score
  - c. A credit of 3 points awarded to the opponent's total score
  - d. A credit of 2 points awarded to the opponent's total score
47. What happens when you get a YELLOW CARD?
- a. You get a warning from a REFEREE for egregious ROBOT or TEAM MEMBER behavior or rule violations. Two subsequent YELLOW CARD will result in a RED CARD.
  - b. You get a warning from the HEAD REFEREE for egregious ROBOT or TEAM MEMBER behavior or rule violations.
  - c. You get a warning from a REFEREE for egregious ROBOT or TEAM MEMBER behavior or rule violations. A subsequent YELLOW CARD will result in DISQUALIFICATION
  - d. You get a warning from the HEAD REFEREE for egregious ROBOT or TEAM MEMBER behavior or rule violations. A subsequent YELLOW CARD will result in a RED CARD.
48. What happens when you get a RED CARD?
- a. You are DISQUALIFIED for the MATCH
  - b. You are DISQUALIFIED from the COMPETITION
  - c. You are DISQUALIFIED for 30 SECONDS
  - d. Your alliance is DISQUALIFIED for the MATCH
49. What happens when you get DISABLED?
- a. Your robot is INOPERABLE for the remainder of the match
  - b. You lose all RANKING POINTS
  - c. You receive a RED CARD

- d. Your alliance RECEIVES ZERO (0) MATCH POINTS for the match
50. What happens when you get DISQUALIFIED in a playoff match?
- a. Your team RECEIVES ZERO (0) MATCH POINTS for the match
  - b. Your team loses 2 RANKING POINTS
  - c. Your alliance loses 2 RANKING POINTS
  - d. Your alliance RECEIVES ZERO (0) MATCH POINTS for the match
51. Operators take control for the final two minutes and fifteen seconds of the match, which is called:

- a. Game
  - b. Teleoperated Period
  - c. Independent Period
  - d. Match
52. What is your name?
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**MUST SCORE 45 OR HIGHER,  
PASSING = 90%**