



## CREATE Open Program - FAQ 2019-2020

Q1: What does it cost to register a CREATE Open team?

A: Nothing. Registration of a CREATE Open team for the 2019-2020 season is free.

Q2: Why are robots limited to 2 pneumatic tanks?

A: These components often represent a large outlay of money. It is our hope with the CREATE Open Program to have as level a playing field as possible. We want to promote extreme design flexibility AND low cost. Limiting the use of expensive parts is consistent with that philosophy.

Q3: How is autonomous mode communicated to the robot?

A: A digital “high” signal will be sent on the data line coming from the Reoff. It will go “low” 19 seconds into autonomous (1 second before autonomous mode is to end).

Q4: Is there any other way to determine the start of autonomous mode in a match?

A: No. This is the only way that is consistently communicated to the robot. Since you are not allowed to touch your robot or remote once a match is launched, teams must use this data coming from the Reoff.

Q5: If our robot does not have an autonomous mode may we keep the remote in our hands?

A: No. This would give a competitive advantage and thus reward a team that is less innovative in the programming area. This would be inconsistent with CREATE's philosophy of promoting innovation.

Q6: Is it legal to stay in autonomous mode longer than 20 seconds?

A: Yes. A team may play an entire match in autonomous mode if it likes. But the robot must not move during the pause between autonomous and driver modes.

Q7: Is an autonomous mode required?

A: No.

Q8: Can any motors be used?

A: Yes. However safety is a primary concern. Great care must be used to selecting appropriate motors and electronics that safely operate within the power requirements of this program. Any robot deemed

to be unsafe, for any reason, by the inspectors/referees will not be allowed to compete until modified to be deemed safe and/or may be disqualified from the tournament.

Q9: Can any control system be used?

A: Yes. This includes, but is not limited to, FIRST robotics equipment, LEGO, VEX, Raspberry PI, or Arduino based systems.

Q10: Can any sensor be used?

A: Yes. It is also encouraged. There are great, low cost sensors, available which can be integrated into almost any control system.

Q11: Is one control system recommended over another?

A: No. Use what you are comfortable with/capable of.

Q12: What ages/grades can participate in the CREATE Open program?

A: Any age. However, most events will be geared toward 12<sup>th</sup> grade and younger. The Open is an advanced robotics program. However middle school teams that feel qualified are welcome to participate with the high school teams.

Q13: How do I register a team?

A: Go to [www.robotevents.com](http://www.robotevents.com) and register like you would a regular team. Just be sure to select CREATE Foundation as the “type” of team.