Pennsylvania

FIRST
TECH
CHALLENGE

2016-17 Season Kickoff

Welcome!

Agenda

- Pennsylvania FIRST Tech Challenge Schedule
- Qualifier Registration
- Youth Protection in Pennsylvania
- Coaches Calls
- Team Registration
- Team Resources
- Judging
- New Technology Updates 2016
- Game Reveal!

Pennsylvania FTC Schedule

http://www.ftcpenn.org/ftc-events/2016-2017-season

Pennsylvania FIRST Tech Challenge

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2016-2017 Season

Pennsylvania FIRST Tech Challenge Events

Pennsylvania FIRST Tech Challenge events for the 2016-2017 season. Qualifying Tournaments and the Championship Tournament follow the Tournaments format.

Register for the events below on the Event Registration page.
Registration for Qualifiers opens Sunday, September 11, 2016.

Date	Event Type	Event Name *Click on name for event details*	Venue *Host's website*	Location *Google Maps*

Qualifier Registration

Pennsylvania Teams

- **Qualifiers**
  - 1st Preference > Registered *assuming space available*
  - 2nd Preference > 2nd Priority Waitlist
  - 3rd Preference > 3rd Priority Waitlist
  - and so on

- **All other Events**
  - First come, first served
  - Added to Waitlist once slots filled

Out of State Teams

- **Qualifiers**
  - *New: Offset is TWO this season*
  - 1st Preference > 3nd Priority Waitlist
  - 2nd Preference > 4rd Priority Waitlist
  - 3rd Preference > 5th Priority Waitlist
  - … and so on

- **All other Events**
  - First come, first served
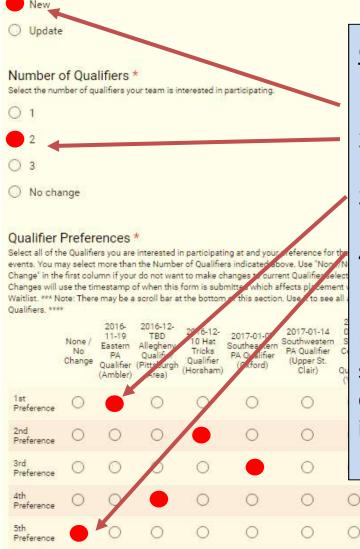 - Added to Waitlist once slots filled

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Similar to Last Year
Qualifier Preferences, Registered Lists and Wait Lists

New or Update (Q) *

Choose "New" if this is your first submission of this form or if you wish to completely replace all previous selections. Choose "Update" if you would like to update an existing submission. When selecting "Update", changed Preferences will receive the submission timestamp and "No Change" Preferences will retain their current timestamp.

- ● New
- ○ Update

Number of Qualifiers *

Select the number of qualifiers your team is interested in participating.

- ○ 1
- ● 2
- ○ 3
- ○ No change

Qualifier Preferences *

Select all of the Qualifiers you are interested in participating at and your preference for the events. You may select more than the Number of Qualifiers indicated above. Use "None/No Change" in the first column if your do not want to make changes to current Qualifier select Changes will use the timestamp of when this form is submitted which affects placement Waitlist. *** Note: There may be a scroll bar at the bottom of this section. Use to see all Qualifiers. ****

	None / No Change	2016-11-19 Eastern PA Qualifier (Ambler)	2016-12-TBD Allegheny Qualifier (Pittsburgh Area)	2016-12-10 Hat Tricks Qualifier (Horsham)	2017-01-0 Southeastern PA Qualifier (Oxford)	2017-01-14 Southwestern PA Qualifier (Upper St. Clair)	
1st Preference	○	●	○	○	○	○	
2nd Preference	○	○	○	●	○	○	
3rd Preference	○	○	○	○	●	○	
4th Preference	○	○	●	○	○	○	○
5th Preference	●	○	○	○	○	○	○
6th Preference	●	○	○	○	○	○	○

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Qualifier Registration

1. Select **New** or **Update**
2. Select **Number of Qualifiers** you wish to participate in this season
3. Select the **Qualifiers** in **Preference** order (may be *more* than Number of Qualifiers)
4. Select **None** for any remaining Preferences

Use **Update** option later to change any previous selection. For example, change the number of qualifiers from 2 to 3. Select **None/ No Change** for items you do not wish to update

Youth Protection in Pennsylvania

http://www.ftcpenn.org/volunteer/youth-protection

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Youth Protection

Pennsylvania FIRST Robotics strives to provide a safe environment for students at our events. As part of this effort, volunteers and adults affiliated with a Team to follow Pennsylvania laws and FIRST's policies.

Pennsylvania Child Protection Services Laws

In 2014 and 2015 the Pennsylvania legislature updated the Child Protection Services Law changing how Pennsylvania responds to child abuse. These changes s affect the reporting, investigation, assessment, prosecution and judicial handling of child abuse and neglect cases. Beginning August 25, 2015, many adult volunt required to obtain background checks, including the Child Abuse History Clearance, issued by the Department of Human Services, and the Criminal History Rec issued by the Pennsylvania State Police.

More information may be found on the Pennsylvania Keep Kids Safe website http://keepkidssafe.pa.gov, including Volunteer Frequently Asked Questions.

> *Pennsylvania Child Protection Laws*
> *Affects both Adults Affiliated with a Team and Event Volunteers*

Coaches Call

http://www.ftcpenn.org/ftc-events/2016-2017-season/coaches-call

FIRST **Pennsylvania** *FIRST* Tech Challenge
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Coaches Call

The Coaches Calls

The Coaches Calls are an opportunity to learn more about the upcoming Pennsylvania FTC Season, and most importantly give us the opportunity to hear what is on your mind. So bring your questions, comments, and thoughts on how to improve the Pennsylvania FTC program!

The calls are divided up regionally as there will be some region specific topics discussed. This will also be an opportunity to virtually meet other coaches in your area. If you cannot attend the call for your region, please feel free to join one of the other calls.

1 - Regional PA FTC Information
2- What's on Your Mind?

FTC Team Registration

http://www.firstinspires.org/robotics/ftc/cost-and-registration

FTC Team Resources

http://www.firstinspires.org/ftc-start-a-team

Judging

Game Manual Part 1

http://www.firstinspires.org/robotics/ftc/game-and-season

7.0 Judging & Award Criteria

7.1 Overview

This section provides a complete description of all of the FTC Awards; the judging process, award criteria, Engineering Notebook guidelines, and philosophy that Teams need to be aware of in preparation for participating at FTC Tournaments.

Teams have spent a significant amount of time designing, building, programming their Robot, and learning what it takes to be part of a Team. For many FTC Teams, the event is the reward for all their hard work throughout the season. While there are several types of events, they all offer a fun and exciting way for Teams to demonstrate the result of their efforts.

The judged awards represent a positive way we recognize Teams who embody important values like Gracious Professionalism™, Teamwork, creativity, innovation, and the value of the engineering design process. These judging guidelines are a part of the road map to success.

FTC judging sessions do not include written or verbal feedback for students. FTC judging is a subjective process; and students are encouraged to learn the important life skill of self-evaluation. This helps students prepare for professional interviews while developing other real world life skills. For a copy of the FTC Team Judging Session Self-Reflection Sheet please visit the website:
http://www.usfirst.org/Roboticsprograms/ftc/Team-resources

7.2 FTC Award Eligibility

To ensure fairness to all Teams and to provide equal opportunity for all Teams to win an award at an FTC Championship tournament, Teams are only eligible to win an award at the first three Championship tournaments that they attend in a season. Those Teams who compete in more than three Qualifying Tournament, League Championships, and Championship tournaments do so for the purpose of being involved in the fun and excitement of the tournament and not with the intention of winning awards or advancing to the next tournament level.

Minimum Requirements for Awards

Upgrade Your Modern Robotics Firmware!

- Version 2.0 Firmware Now Available from Modern Robotics
  - Field upgradable firmware. Future firmware releases upgraded from your pc.
  - Servo Controller - Advanced user function to allow selection of the servo range (standard range or extended range) varying the limits for each servo.
  - Motor Controller - Select the DC motor type for each motor port to set the control loop parameters to run each type of motor at maximum efficiency (Matrix, NeveRest, and Tetrix motors supported)
- Cost: $5 to $12 Each Depending on Number of Devices Upgraded
  - Includes Servo Controller, Motor Controller, Device Interface Module, and Legacy Module
- Approximately 2 weeks turn-around time including shipping.

FIRST Recommends Android Studio Upgrade

- Upgrade to Version 2.1.x
  - Current version will be uninstalled during the upgrade
  - Takes about an hour

- All Future SDK Updates from FIRST Require Android Studio 2.1.x

- Keeping Current with the Latest SDK will Make Our FTAs Happy! ☺

- New SDKs and Modern Robotics Firmware Upgrades Go Together:
  - Fewer Locked Up Robots!
  - Smoother Competitions!

FIRST Released New SDK. Requires Android Studio 2.1.x

FIRST TECH CHALLENGE

Game Reveal!