



FIRST® ENERGIZE<sup>SM</sup>  
presented by Qualcomm

[firstinspires.org/robotics/ftc](http://firstinspires.org/robotics/ftc)

2022-2023 FIRST® Tech Challenge

# Event Admin\_Traditional



## Sponsor Thank You

Thank you to our generous sponsor for your continued support of the *FIRST*® Tech Challenge!



# Raytheon Technologies

## Volunteer Thank You

Thank you for taking the time to volunteer for a *FIRST*® Tech Challenge event. *FIRST*® and *FIRST*® Tech Challenge rely heavily on volunteers to ensure events run smoothly and are a fun experience for teams and their families, which could not happen without people like you. With over 6,500 teams competing yearly, your dedication and commitment are essential to the success of each event and the *FIRST* Tech Challenge program. Thank you for your time and effort in supporting the mission of *FIRST*!

Revision History		
Revision	Date	Description
1	9/12/2022	Initial Release

## Contents

Introduction	5
What is FIRST® Tech Challenge?	5
<i>Gracious Professionalism</i> ®	5
FIRST Privacy Policy	5
Volunteer General Information	5
Volunteer Training and Certification	5
Volunteer Minimum Age Requirement	6
Key Volunteer Role Minimum Age Requirement	6
Bring a Friend!	6
Job Description	6
Overview of Responsibilities	7
Pre-Event Day Responsibilities	7
Best practices for transferring the event to the scorekeeper:	7
Event Day Responsibilities	7
Introduction to the Event Administrator for the FTC Scoring System	9
Event Management Workflow Chart	9
Step 1: Submit Event Requests in FTC Scoring	11
Step 2: Assign Volunteer Roles in VMS	11
Step 3: FTC Scoring Synchronizes Data	11
Step 4: PDP View – Configure the Traditional Tournament Event in FTC Scoring	12
League Configuration must be done in the cloud-based FTC Scoring system.	13
Associate a league to the event, if necessary.	13
Add teams to the FTC Scoring event. This will only add the team administrator (lead coach one or two).	14
Roles assigned in VMS with their FIRST dashboard accounts.	14
Add event sponsors	14
Step 5: Event Set Up for Scorekeeper Laptop	15
Step 6: Scorekeeper uses FIRST Tech Challenge Live at Event	16
Step 7: Publish Event Results	17
Step 8: Results Appear on Website	18
Appendix A – Resources	19
Game Forum Q&A	19

Volunteer Forum	19
FIRST Tech Challenge Game Manuals	19
FIRST Headquarters Pre-Event Support	19
FIRST Tech Challenge Event On-Call Support	19
FIRST Websites	19
FIRST Tech Challenge Social Media	19
Feedback	19

## Introduction

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### **What is FIRST® Tech Challenge?**

FIRST® Tech Challenge is a student-centered program that focuses on giving students a unique and stimulating experience. Each year, teams engage in a new game where they design, build, test, and program autonomous and driver operated robots that must perform a series of tasks. To learn more about FIRST® Tech Challenge and other FIRST® Programs, visit [www.firstinspires.org](http://www.firstinspires.org).

### **Gracious Professionalism®**

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FIRST® uses this term to describe our programs' intent.

*Gracious Professionalism®* is a way of doing things that encourages high-quality work, emphasizes the value of others, and respects individuals and the community.

Watch Dr. Woodie Flowers explain *Gracious Professionalism* in this [short video](#).

Learn more about the roles of volunteers on our [Volunteer Resources page](#), "Volunteer Role Descriptions".

## FIRST Privacy Policy

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FIRST takes the privacy of our community seriously. As a nonprofit and a mission-driven youth-serving organization, we are compelled to understand who we are serving, how our programs are performing, and make improvements so that we can achieve our goals of making FIRST accessible to any youth who wants to be part of the fun, exciting and life-changing experience. Thus, we need to collect certain personal data from participants and volunteers to ensure we are meeting our goals and responsibilities as a youth-serving nonprofit organization.

As a volunteer, you may be asked to handle the personal data, or personally identifiable information (PII), of coaches, team members, and even other volunteers. It is critical that you understand and follow the [FIRST Privacy Policy](#) and complete any data protection and privacy training required by your role. If you have any questions regarding data protection and privacy, please reach out to the FIRST Data Governance Team at [privacy@firstinspires.org](mailto:privacy@firstinspires.org).

## Volunteer General Information

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### **Volunteer Training and Certification**

#### **To Access BlueVolt and Complete a Volunteer Role Training Course:**

Once you have applied for a volunteer role that requires certification a link will appear in your FIRST dashboard that will connect you to our learning management system BlueVolt.

1. Login to your FIRST Dashboard
2. On the grey menu below "Dashboard" Click on "Volunteer Registration"
3. Click on "Roles Missing Certification"
  - a. Click into the link to "Review Outstanding Tasks" which will take you to the BlueVolt site where you can complete your certifications and sign up for new training.

### **How to Access BlueVolt After Certifications are Complete:**

Once you complete your certifications, you will no longer see a “Roles Missing Certification” link or a link to “Review outstanding Tasks” to get to BlueVolt. If that is the case, follow the steps below to access BlueVolt courses and updates.

1. Login to your *FIRST* Dashboard
2. At the top right of the page, click on the dropdown under your name and go to “My Profile”
3. Once there, on the left menu of the page, click on the “Certifications” link which will take you to the BlueVolt site where you can view/print your existing certifications and sign up for new training

If you have applied for a role but do not see the link to training in your dashboard, or you have other training related questions please email [FTCTrainingSupport@firstinspires.org](mailto:FTCTrainingSupport@firstinspires.org).

### ***Volunteer Minimum Age Requirement***

The minimum age requirement of a *FIRST* volunteer is **13 years old**.

A minor must have a parent or guardian give written permission to volunteer. In addition, the *FIRST* Consent and Release Forms will need to be signed by a parent or guardian in the Volunteer Registration system for any volunteer under age 18.

### ***Key Volunteer Role Minimum Age Requirement***

Volunteers **MUST** be at least 21 years old before they can serve in a key volunteer role for the *FIRST* Tech Challenge. Key volunteer positions include: event administrator, volunteer coordinator, head referee, judge advisor, field manager, field technical advisor, lead robot inspector, lead field inspector, and lead scorekeeper. Local program delivery partners can make case by case exceptions to these guidelines by contacting *FIRST* for approval.

### ***Bring a Friend!***

Volunteers are a huge part of the *FIRST* Tech Challenge Program and help to inspire students to seek out careers in science, technology, engineering, and math (STEM). *FIRST* Tech Challenge needs your help in recruiting new volunteers to keep our programs thriving for future generations! If you have a friend or co-worker you think would be interested in volunteering at an event, there are just a few easy steps to help get them involved!

1. Check out our full list of [volunteer opportunities](#) online!
2. Have them apply for the Event in the [Volunteer Registration System](#). Volunteers must be screened before volunteering.
3. Have them contact [Firsttechchallenge@firstinspires.org](mailto:Firsttechchallenge@firstinspires.org) with any questions they may have.

If they are concerned about jumping in head first, no worries! Job shadowing at a *FIRST* Tech Challenge Event is a great way to get a taste of what a full day’s worth of competition looks like. New volunteers can discover ways they can fit their personal skills into a volunteer position!

## **Job Description**

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- **Physical/Technical Requirements:**
  - Technical – MODERATE
  - Physical – LOW
  - Administrative – HIGH
  - Communication – HIGH

- **Time commitment:** Event Administrator should read this manual before the event. She/he should speak to the tournament director or program delivery partner to check for additional requirements, such as meetings before the event.. The estimated training time is one hour.

## Overview of Responsibilities

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The event administrator is a key role that acts as a substitute for the PDP level of access to the FTC Scoring system. Due to the nature of the role, the volunteer in this role is required to have PDP level screening for YPP. Be sure to complete the YPP training on your FIRST dashboard. The volunteer in this role is given access to system users for a region's events in order to configure the event: to make changes to the event submission window, add/edit teams, update the judging submission windows, set up judging sessions and other features for a remote event.

As a substitute for the partner, this role may also include:

- Inviting event management staff, coaches, and volunteers to create accounts and certify.
- Assigning volunteers to designated roles in [Volunteer Management System](#) (VMS).
- Managing event schedule, including opening/closing ceremonies and assigning teams, judges and the judge advisor.
- Add and distribute links for virtual judging sessions.

## Pre-Event Day Responsibilities

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The event administrator is responsible for the event setup in the event management software, FTC Scoring. To properly ensure that the system users, judge advisor, judge, coaches and teams, scorekeepers and potentially volunteer coordinators, have access to the event, one should have access the event more than a week prior to the event start date such that the key volunteers and coaches have access at least a week in advance of the event start date. Make sure to communicate user access to the users and distribute schedules of events and deadlines – match play, submission uploads, judging sessions.

### ***Best practices for transferring the event to the scorekeeper:***

Coordinating with the scorekeeper for the event to do the transfer of the event data to the scorekeeper's local FTC Live scorekeeping software prior to the event or sending the event key to the scorekeeper in advance.

Note: Reading through the FTC Scorekeeper guides will give you a robust understanding of the FTC Scoring system.

## Event Day Responsibilities

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The event administrator or PDP will be responsible for the event management system, FTC Scoring, and its support for all users. This includes team support for remote events regarding match play issues and uploads, submission issues, judging session issues, judging session support for volunteers that need access. For traditional events, the event administrator should have already transferred the link to the scorekeeper.

This role may also be the point-of-contact to *FIRST* Tech Challenge HQ for technical and event support through email: [Firsttechchallenge@firstinspires.org](mailto:Firsttechchallenge@firstinspires.org) or phone calls to the support line(s). Please add these numbers to your cell phone contacts.

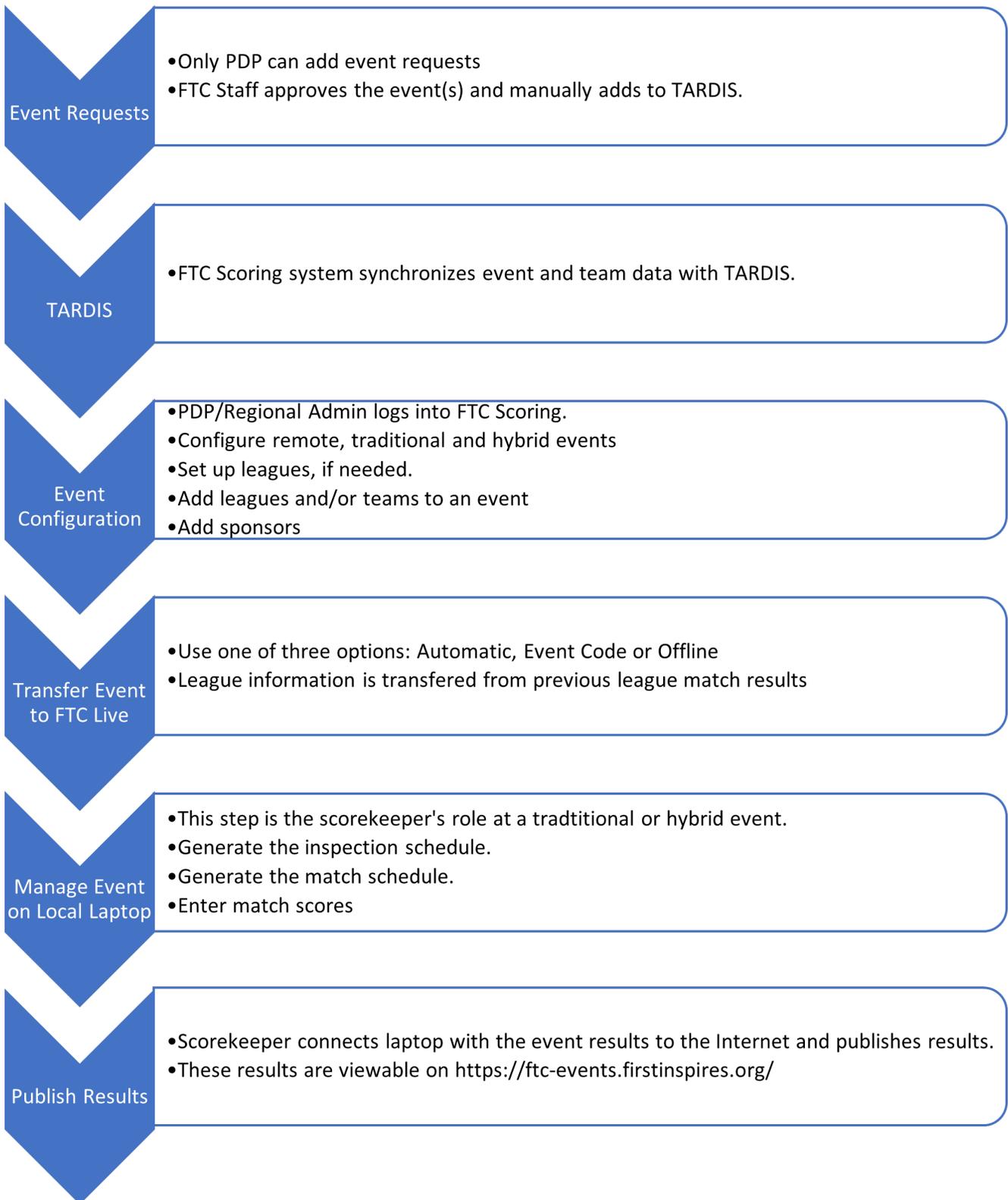
- Day of event robot control system and scoring system support: 603-206-2450
- All other day of event support: 603-206-2412

## Introduction to the Event Administrator for the FTC Scoring System

Congratulations! You're on your way to becoming a certified FTC Event Administrator for event management and configuration using the FTC Scoring system. This guide provides steps for managing a traditional event using the FTC Scoring system. This document features the FTC Scoring system as the platform for event requests (creation, editing and deleting) AND a traditional event that will require transfer of the link to the scorekeeper.

## Event Management Workflow Chart

List of Actions	FTC Scoring System	FTC Live	Spreadsheet and email	Video Conferencing	VMS
Event Request Creation	x				
Access Volunteers CSV					x
Assign Volunteer Roles					x
Event Configuration	x				
a. Define submission window	x				
b. Add/Edit Teams	x				
c. Add/Edit Sponsors	x				
Add Teams	x				
League Creation	x				
League Add/Edit Teams	x				
Remote Scorekeeping	x				
Traditional (in-person) Scorekeeping		x			
Traditional Judge Assignment					x
Remote Judge Assignment	x				x
Remote Judge Panel Assignment for Teams	x		x		
Remote Judge Interviews	x			x	
Remote Judged Awards	x				



## Step 1: Submit Event Requests in FTC Scoring

- Only a PDP submits event details in the [FTC Scoring](#) system using the Event Request feature for the region.
- Any changes required to approve the event will be sent via the Notes feature or email.
- PDP makes needed changes before the event can be approved.
- Once the event has been edited and approved, FTC staff will sync the event with Tardis.
- This manual process occurs bi-weekly and approved events will show up within 24 hours of final approval.

## Step 2: Assign Volunteer Roles in VMS

- In North America, volunteer assignments should be made through [VMS](#) using **FIRST dashboard email** accounts.
- In 2021-2022, Event Admin should also be added via VMS due to their exposure to user roles and YPP. Note: If adding an event admin manually in the scoring system please verify screening and certification.
- Manual assignment is required for Outside North America (ONA) volunteers at ONA events. These ONA volunteers **MUST** have a FIRST dashboard account to login to the FTC Scoring system.
- Assignments made in VMS automatically appear in FTC Scoring within 24 hours.

**FIRST**  
Volunteer Management System

The Volunteer Management System (VMS) supports all of the *FIRST* programs. The Volunteer Management System is designed to assist in management of event volunteers.

If you are an authorized user, please log in using your *FIRST* Portal User account e-mail and password.

If you would like to volunteer for an event, please visit [Volunteer Registration](#).

Please sign in

[Forgot your password?](#)

**FIRST**  
LEGO  
LEAGUE JR.

**FIRST**  
LEGO  
LEAGUE

**FIRST**  
TECH  
CHALLENGE

**FIRST**  
ROBOTICS  
COMPETITION

General inquiries: [volunteer@firstinspires.org](mailto:volunteer@firstinspires.org)

*FIRST* extends our greatest thanks to the thousands of volunteers who make our programs successful. We thank you for supporting our mission, and making a difference in the lives of our young people.

## Step 3: FTC Scoring Synchronizes Data

FTC Scoring system synchronizes event data to/from TARDIS daily, which is different than the manual adds done for event creation. Event edits may take more than 24 hours. FTC Scoring also synchronizes team data from TARDIS daily.

## Step 4: PDP View – Configure the Traditional Tournament Event in FTC Scoring

- PDP or designated event admin logs into cloud-based FTC Scoring system <https://ftc-scoring.firstinspires.org/>
- Find the approved traditional event in the list.

[USNH] New Hampshire

Events Show 50 entries Search:

Name	Type	City	Date
USNH Test Scrimmage 0	Scrimmage	USNH Test City 0	Oct 2, 2020
USNH Test League Meet 0	League Meet	USNH Test City 9	Oct 4, 2020
USNH Test League Meet 1	League Meet <span>Remote</span>	USNH Test City 7	Oct 6, 2020
USNH Test League Meet 2	League Meet	USNH Test City 1	Oct 8, 2020
USNH Test League Meet 3	League Meet	USNH Test City 2	Oct 10, 2020
USNH Test League Meet 4	League Meet	USNH Test City 9	Oct 12, 2020
USNH Test League Meet 5	League Meet	USNH Test City 5	Oct 14, 2020
USNH Test League Meet 6	League Meet	USNH Test City 0	Oct 16, 2020
USNH Test League Meet 7	League Meet	USNH Test City 0	Oct 18, 2020
USNH Test League Meet 8	League Meet	USNH Test City 7	Oct 20, 2020
USNH Test League Meet 9	League Meet	USNH Test City 8	Oct 22, 2020
USNH Test Qualifier 0	Qualifier <span>Remote</span>	USNH Test City 2	Oct 24, 2020
USNH Test Qualifier 1	Qualifier	USNH Test City 1	Oct 26, 2020
USNH Test Qualifier 2	Qualifier <span>Remote</span>	USNH Test City 0	Oct 28, 2020
USNH Test Qualifier 3	Qualifier	USNH Test City 1	Oct 30, 2020
USNH Test League Tournament 0	League Tournament <span>Remote</span>	USNH Test City 1	Nov 1, 2020
USNH Test League Tournament 1	League Tournament	USNH Test City 1	Nov 3, 2020
USNH Test Championship 0	Championship	USNH Test City 0	Nov 5, 2020

- PDP/admin then configures the event. Select Manage Event from the event homepage, takes you to the event dashboard:

[<< Back to Event Home](#)

## AZDQ4 Dashboard

### AZ Demo Qualifier 4

#### Qualifier

Step	Action	Status
1	Event Users	Optional
2	Event Configuration	Done
3	Add/Edit Teams	8 Teams added
4	Add/Edit Event Sponsors	1 Sponsors added
5	Manage Event Announcements	Optional
7	Advancement Report	Optional
8	Publish Event Results	Incomplete

#### **League Configuration must be done in the cloud-based FTC Scoring system.**

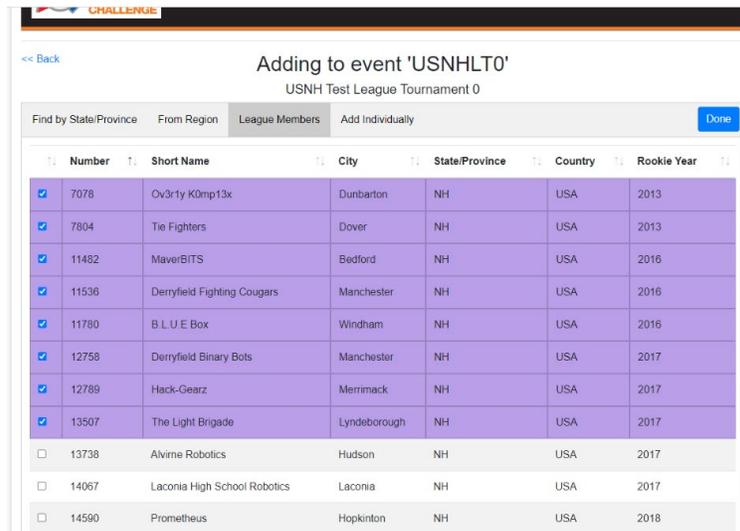
- Select Leagues from the sidebar.
- Create the parent league, and child leagues, if necessary.
- For more information about leagues, review the [League Quick Start Guide](#).

#### **Associate a league to the event, if necessary.**

- FTC Scoring calculates league ranking using available *published* match results.
- This follows teams within a region.

League

**Add teams to the FTC Scoring event. This will only add the team administrator (lead coach one or two).**



Adding to event 'USNHHTO'  
USNH Test League Tournament 0

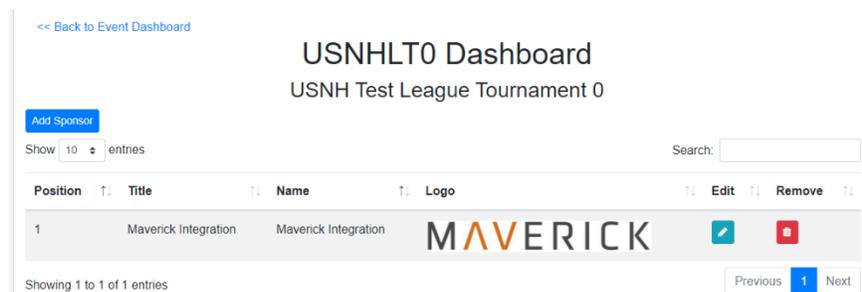
Find by State/Province From Region League Members Add Individually Done

Number	Short Name	City	State/Province	Country	Rookie Year	
<input checked="" type="checkbox"/>	7078	Ov3r1y K0mp13x	Dunbarton	NH	USA	2013
<input checked="" type="checkbox"/>	7804	Tie Fighters	Dover	NH	USA	2013
<input checked="" type="checkbox"/>	11482	MaverBITS	Bedford	NH	USA	2016
<input checked="" type="checkbox"/>	11536	Derryfield Fighting Cougars	Manchester	NH	USA	2016
<input checked="" type="checkbox"/>	11780	B.L.U.E.Box	Windham	NH	USA	2016
<input checked="" type="checkbox"/>	12758	Derryfield Binary Bots	Manchester	NH	USA	2017
<input checked="" type="checkbox"/>	12789	Hack-Gearz	Merrimack	NH	USA	2017
<input checked="" type="checkbox"/>	13507	The Light Brigade	Lyndeborough	NH	USA	2017
<input type="checkbox"/>	13738	Alvirne Robotics	Hudson	NH	USA	2017
<input type="checkbox"/>	14067	Laconia High School Robotics	Laconia	NH	USA	2017
<input type="checkbox"/>	14590	Prometheus	Hopkinton	NH	USA	2018

### Roles assigned in VMS with their FIRST dashboard accounts.

- These will appear as “system-generated roles”.
- Add User manually within the FTC Scoring system is not recommended, though may be required for additional Event Administrators. Add Users manually in the system may also be required for a hybrid event judge and judge advisors for remote judging.
- PDP has already assigned roles in VMS (highly recommended) or added volunteer roles manually in FTC Scoring, then the FTC Scoring system updates within 24 hours.
- **Important Note:** Due to data privacy issues, only the PDP or designated admin can perform this step.
- Volunteer roles are assigned in FTC Scoring using the Add Role button
- Judging Schedules can be done in the local FTC Live system for the event

### Add event sponsors



<< Back to Event Dashboard

USNHHTO Dashboard  
USNH Test League Tournament 0

Add Sponsor

Show 10 entries Search:

Position	Title	Name	Logo	Edit	Remove
1	Maverick Integration	Maverick Integration			

Showing 1 to 1 of 1 entries

Previous 1 Next

## Step 5: Event Set Up for Scorekeeper Laptop

PDP/admin transfers event data to scorekeeper laptop. FTC Scoring calculates league ranking using available *published* match results and includes this information in the transfer.

Resources Help/Feedback Hello, teng@firstinspires.org

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[<< Back to Event Dashboard](#)

# Setup Local Play

## Automatic Setup

Could not find scoring system. If the system is running on a different port, enter it below:

Port:

---

## Manual Setup

Give this Event Key to the Scorekeeper or FTA. This key can be entered on the "Setup Event" page of the local scoring system to setup the event. The local scoring system must have internet access. **DO NOT DISTRIBUTE TO ANYONE NOT RUNNING THE SCORING SYSTEM AT THIS EVENT**

This key is only valid for FTC Live PREVIEW version.

Event Key: 7df89913-daac-44c1-a4dd-349c5487ce80

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## Offline Setup

If the local instance does not have internet access, use button below to download an event file. Upload this file into the local scoring system using the "Offline Setup" page. **DO NOT DISTRIBUTE THIS FILE TO ANYONE NOT RUNNING THE SCORING SYSTEM AT THIS EVENT**

## Step 6: Scorekeeper uses FIRST Tech Challenge Live at Event

Scorekeeper uses FTC Live on laptop to manage the event (Inspection, judging, and match schedules) and enter scores and judging results at the traditional event.

### Match Control

Loaded Match: Qualification 1    2:30 (Not Started)    Red: 11536, 11780    Blue: 8888, 7078

Active Match:

Load Next Match
Show Preview
Randomize Field
Show Random
Show Match
Start Match
Commit & Post Last Match

Schedule
Incomplete Matches
Score Edit
Active Match
Settings
Alliance Selection
Video Switch

Match	Field	State	Red Score	Red 1	Red 2	Red 3	Blue 1	Blue 2	Blue 3	Blue Score		
Qualification 1	1	UNPLAYED	0	11536	11780		8888	7078		0	Play	Enter Scores
Qualification 2	1	UNPLAYED	0	8888	11780		11536	7078		0	Play	Enter Scores
Qualification 3	1	UNPLAYED	0	7078	8888		11780	11536		0	Play	Enter Scores
Qualification 4	1	UNPLAYED	0	7078	11536		11780	8888		0	Play	Enter Scores
Qualification 5	1	UNPLAYED	0	7078	11780		8888	11536		0	Play	Enter Scores

### Match Control

Loaded Match: Qualification 1    0:02 (Autonomous)    Red: 11536, 11780    Blue: 8888, 7078

Load Next Match
Show Preview
Randomize Field
Show Random
Show Match
Abort Match
Commit & Post Last Match

Schedule
Incomplete Matches
Score Edit
Active Match
Settings
Alliance Selection
Video Switch

**Initialization**

Duck TSE

Robot 1 Target:

Robot 2 Target:

**Autonomous**

Alliance Hub Storage Unit 0

Level 3 0  No Yes

Level 2 0  Robot 1 Preload

Level 1 0  Robot 2 Preload

Duck Delivered

Navigation	None	Storage Unit	Warehouse	
	In	Cl	In	Cl
Robot 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Robot 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Driver-Controlled**

Alliance Hub Storage Unit 0

Level 3 0  Shared Hub 0

Level 2 0  Delivered 0

Level 1 0  Capped 0

No Yes

Alliance Hub Balanced

Shared Hub Tipped Red

Qualification 1

Red	Blue
11536	8888
11780	7078
0	0

**Score Breakdown**

Auto	0
Freight Points	0
Bonus Points	0
Carousel Points	0
Navigation Points	0
Driv-Ctrled	0
Hub Points	0
Shared Hub Points	0
Storage Points	0
End Game	0
Delivery Points	0
Capping Points	0
Parking Points	0
Balanced Points	0
Tipped Points	0
Penalty	0

**Initialization**

Duck TSE

Robot 1 Target:

Robot 2 Target:

**Autonomous**

Alliance Hub Storage Unit 0

Level 3 0  No Yes

Level 2 0  Robot 1 Preload

Level 1 0  Robot 2 Preload

Duck Delivered

Navigation	None	Storage Unit	Warehouse	
	In	Cl	In	Cl
Robot 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Robot 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Driver-Controlled**

Alliance Hub Storage Unit 0

Level 3 0  Shared Hub 0

Level 2 0  Delivered 0

Level 1 0  Capped 0

No Yes

Alliance Hub Balanced

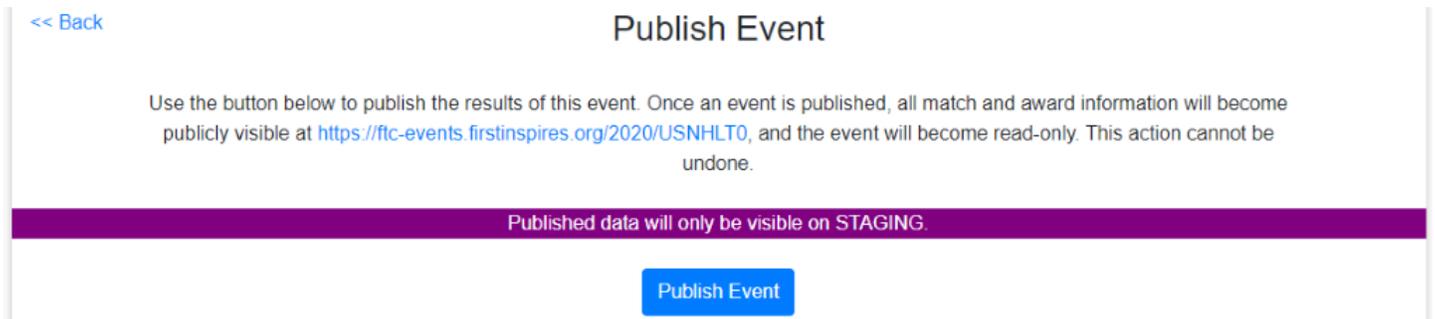
Shared Hub Tipped Blue

## Step 7: Publish Event Results

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Important Note: DO NOT publish canceled events.

After the event is complete, scorekeeper connects FTC Live laptop used at the event to Internet and the results are published to [ftc-events.firstinspires.org](https://ftc-events.firstinspires.org).



Note: Make sure that ALL event data (match play and award results) have been received before publishing.

## Step 8: Results Appear on Website

Scorekeeper or Event Admin should verify that results have published to [ftc-events.org](https://ftc-events.firstinspires.org). FIRST community visits <https://ftc-events.firstinspires.org> website to browse remote and traditional event results (match scores, rankings, awards, etc.). League rankings are calculated using available published league match results.

Please select an event to view official results from the 2021 FIRST Tech Challenge.

Search Events  All Regions  Update List

**Regional Championships** 2  
Monday September 20 to Monday September 20

TESTA Test Championship 0  TESTB Test Championship 0

**Offseason** 6  
Mon Aug 16 to Sun Aug 22

TESTA Test League Meet 1   
TESTA Test League Meet 0   
TESTA Test Scrimmage 0   
TESTB Test Scrimmage 0   
TESTB Test League Meet 1   
TESTB Test League Meet 0

**Offseason** 6  
Mon Aug 23 to Sun Aug 29

TESTA Test League Meet 3   
TESTA Test League Meet 2   
TESTA Test League Meet 4   
TESTB Test League Meet 2   
TESTB Test League Meet 4   
TESTB Test League Meet 3

**Week of 8/30/2021** 8  
Mon Aug 30 to Sun Sep 5

TESTA Test League Meet 8   
TESTA Test League Meet 5   
TESTA Test League Meet 7   
TESTA Test League Meet 6   
TESTB Test League Meet 5   
TESTB Test League Meet 8   
TESTB Test League Meet 6   
TESTB Test League Meet 7

**Week of 9/6/2021** 8

**Week of 9/13/2021** 6

**Week of 9/20/2021** 2

## Appendix A – Resources

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### Game Forum Q&A

<https://ftc-qa.firstinspires.org/>

Anyone may view questions and answers within the *FIRST*® Tech Challenge game Q&A forum without a password. To submit a new question, you must have a unique Q&A system user name and password for your team.

### Volunteer Forum

Volunteers can request access to role specific volunteer forums by emailing [FTCTrainingSupport@firstinspires.org](mailto:FTCTrainingSupport@firstinspires.org). You will receive access to the forum thread specific to your role.

### FIRST Tech Challenge Game Manuals

Part 1 and 2 - <https://www.firstinspires.org/resource-library/ftc/game-and-season-info>

### FIRST Headquarters Pre-Event Support

Phone: 603-666-3906

Mon – Fri

8:30am – 5:00pm

Email: [Firsttechchallenge@firstinspires.org](mailto:Firsttechchallenge@firstinspires.org)

### FIRST Tech Challenge Event On-Call Support

The on call event support number is available for event personnel only. Please **do not** call these numbers if you are a team looking for a ruling, a decision, or assistance. We trust that you will not misuse this resource.

Day of event robot control system and scoring system support: 603-206-2450

All other day of event support: 603-206-2412

### FIRST Websites

*FIRST* homepage – [www.firstinspires.org](http://www.firstinspires.org)

[FIRST Tech Challenge Page](#) – For everything *FIRST* Tech Challenge.

[FIRST Tech Challenge Volunteer Resources](#) – To access public volunteer manuals.

[FIRST Tech Challenge Event Schedule](#) – Find *FIRST* Tech Challenge events in your area.

### FIRST Tech Challenge Social Media

[FIRST Tech Challenge Twitter Feed](#) - If you are on Twitter, follow the *FIRST* Tech Challenge Twitter feed for news updates.

[FIRST Tech Challenge Facebook page](#) - If you are on Facebook, follow the *FIRST* Tech Challenge page for news updates.

[FIRST Tech Challenge YouTube Channel](#) – Contains training videos, game animations, news clips, and more.

[FIRST Tech Challenge Blog](#) – Weekly articles for the *FIRST* Tech Challenge community, including outstanding volunteer recognition!

[FIRST Tech Challenge Team Email Blasts](#) – contain the most recent *FIRST* Tech Challenge news for teams.

### Feedback

We strive to create support materials that are the best they can be. If you have feedback about this manual, please email [firsttechchallenge@firstinspires.org](mailto:firsttechchallenge@firstinspires.org). Thank you!