



ROBOTICS EDUCATION &
COMPETITION FOUNDATION

SUMMIT

| ROBOTICS PROGRAMS |



Resources for Coaches

Agenda

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Student Centered
Code of Conduct

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Discussion

01

Student Centered Code of Conduct

RECF Policies:

Code of Conduct and Student Centered



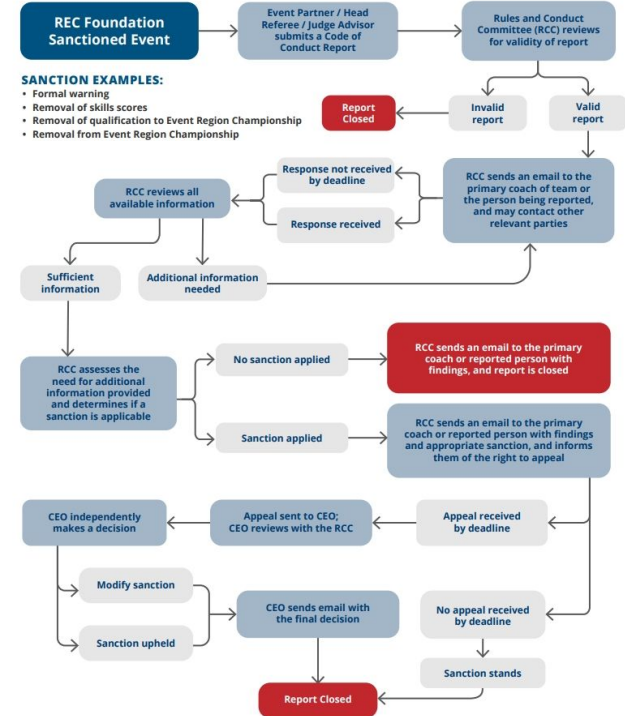
Code of Conduct



Student Centered



CODE OF CONDUCT PROCESS



Adult Interactions: Guidelines and the Why?



Behavior Guidelines

Behavior Guidelines for Team Adults

Student Led, Student Success!

We thank you for your cooperation and commitment to making this a memorable and educational experience for all students. For comprehensive information on the REC Foundation's Student-Centered Policy and Code of Conduct, please visit audience.recf.org.



Encourage Student Communication

Guideline: Students should be the only ones who communicate directly with judges, referees, and members of other teams.

Reason: Leading team communications gives students opportunities to practice their presentation, problem-solving, and negotiation skills.



Avoid Unnecessary Interference

Guideline: Do not interfere with the operations of other teams or the event staff.

Reason: This maintains the integrity and smooth operation of the competition.



Stay Behind the Scenes

Guideline: Adults should stay in the background during active problem-solving and match play.

Reason: When students are the primary participants and leaders in the competition, all teams are on a level playing field.



Respect All Participants

Guideline: Treat all students, mentors, volunteers, and other event attendees with respect and courtesy.

Reason: Respectful behavior promotes a fair and enjoyable experience for everyone involved.



Consequences for Non-Compliance

1. Teams will receive warnings or violations for adult interference.
2. Repeated offenses could lead to a team's disqualification.
3. Adults may be asked to leave the competition area.



Hosting a Parent Boot Camp

NEW!!!

What is a Parent Bootcamp?

A Parent Bootcamp is a coach- or mentor-led meeting designed to help parents, guardians, and other supporters better understand the world of RECF Robotics Competitions. These sessions typically include:

- A short overview of the RECF Robotics Competition season
- Explanation of team roles and responsibilities
- What it means for a team to be “student-centered”
- A preview of what tournament days look like
- Family expectations for the year
- Simple ways families can get involved and support the team



How Can Parents Help?



Parent Boot Camp

02

**RECF Library
Websites**

RECFevents.org

RECF Competition Programs Platform

- For All RECF Robotics and Drone Programs
- Team Registration
- Event Registration
- Event Partner access request
- Event Partner posting events



RECF.org

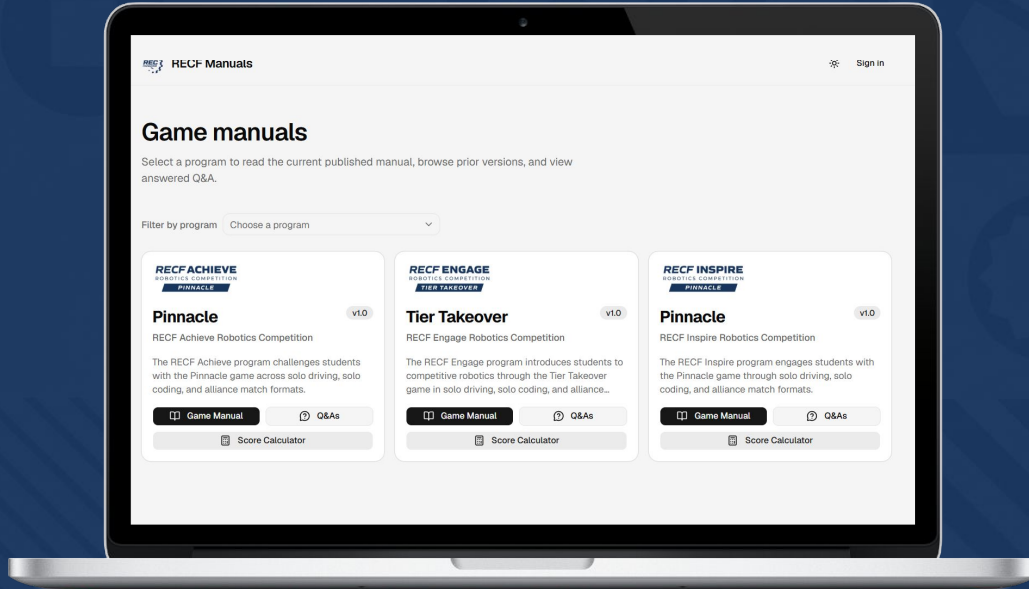
Links to

- RECF Mission and Vision
- RECF Library
- Training and Webinar links
- Workforce Development
- Regional Support Links
- Media / Brand Guidelines
- Annual Reports and Program Guides
- IRHS
- Alumni Association
- Volunteers Overview
- Grants



games.recf.org

Game Manuals, Official Game Q & A and Score Calculator



REC F ENGAGE
ROBOTICS COMPETITION
TIER TAKEOVER

2026-2027

Game Manual Version 1.0

Copyright 2026, Robotics Education & Competition Foundation



REC F ACHIEVE
ROBOTICS COMPETITION
PINNACLE

2026-2027

Game Manual Version 1.0

Copyright 2026, Robotics Education & Competition Foundation



Achieve Game Manual



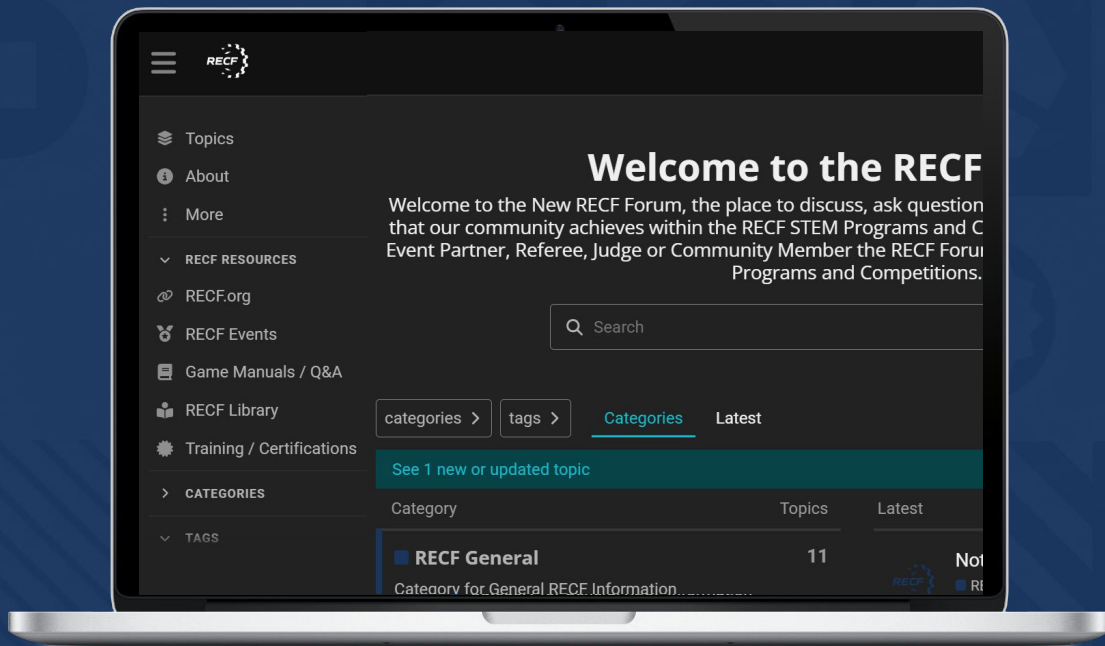
Engage Game Manual

forum.recf.org



RECF Forum

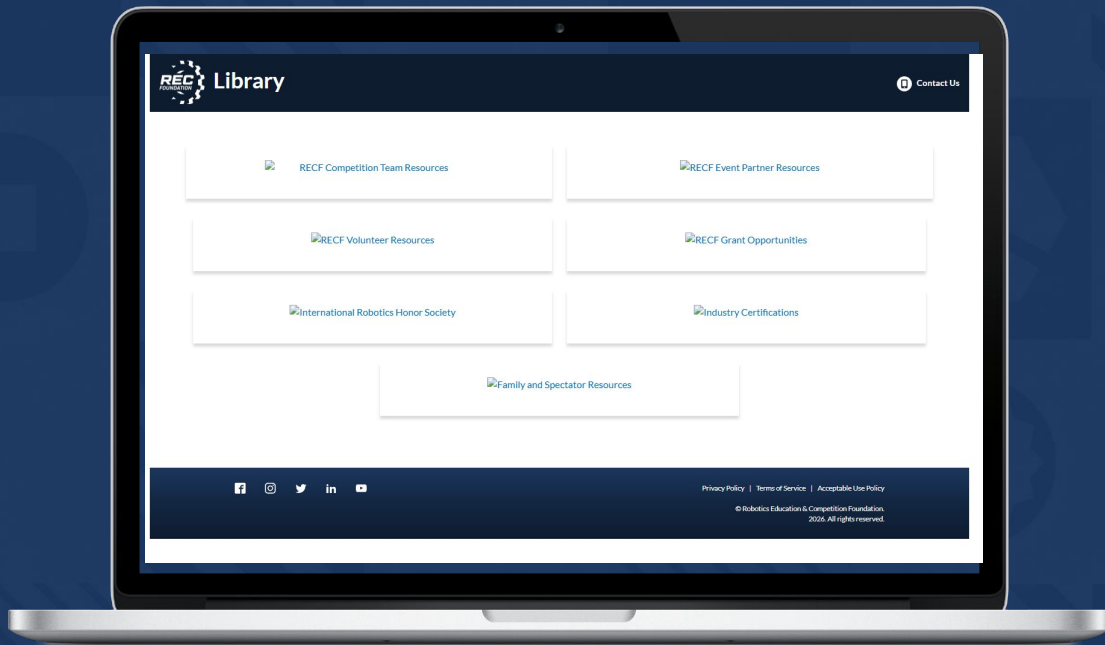
NEW!!!



RECF Library



RECF Library

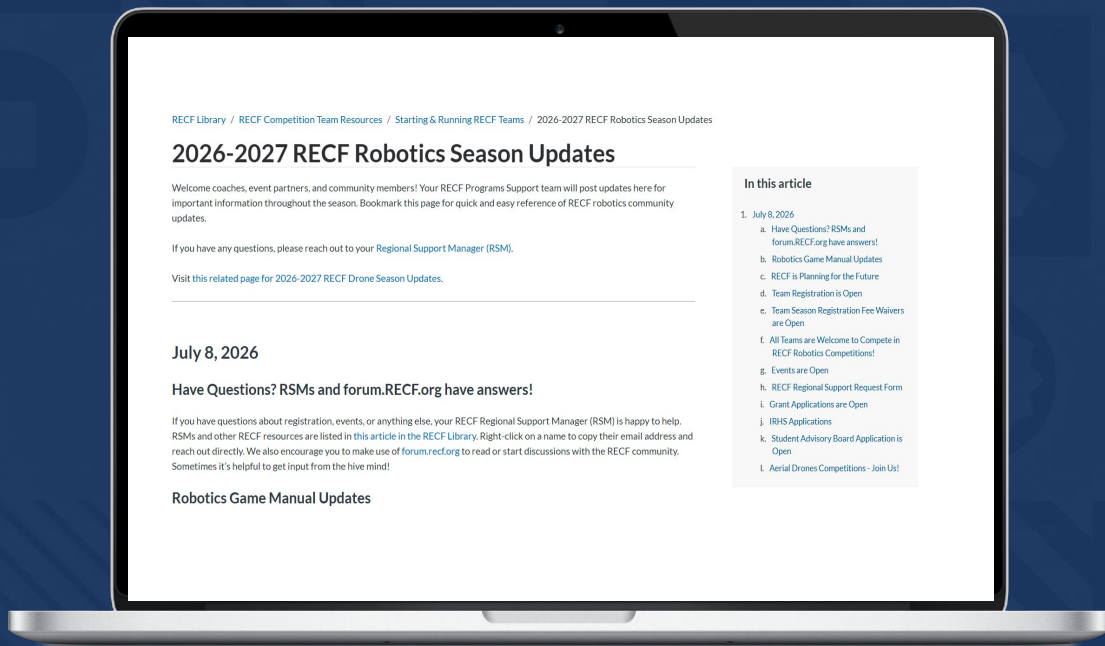


Easily accessible from kb.roboticseducation.org

Season Update Page RECF Robotics



Season Update Page



RECF Library / RECF Competition Team Resources / Starting & Running RECF Teams / 2026-2027 RECF Robotics Season Updates

2026-2027 RECF Robotics Season Updates

Welcome coaches, event partners, and community members! Your RECF Programs Support team will post updates here for important information throughout the season. Bookmark this page for quick and easy reference of RECF robotics community updates.

If you have any questions, please reach out to your [Regional Support Manager \(RSM\)](#).

Visit [this related page](#) for 2026-2027 RECF Drone Season Updates.

July 8, 2026

Have Questions? RSMs and forum.RECF.org have answers!

If you have questions about registration, events, or anything else, your RECF Regional Support Manager (RSM) is happy to help. RSMs and other RECF resources are listed in [this article in the RECF Library](#). Right-click on a name to copy their email address and reach out directly. We also encourage you to make use of [forum.recf.org](#) to read or start discussions with the RECF community. Sometimes it's helpful to get input from the hive mind!

Robotics Game Manual Updates

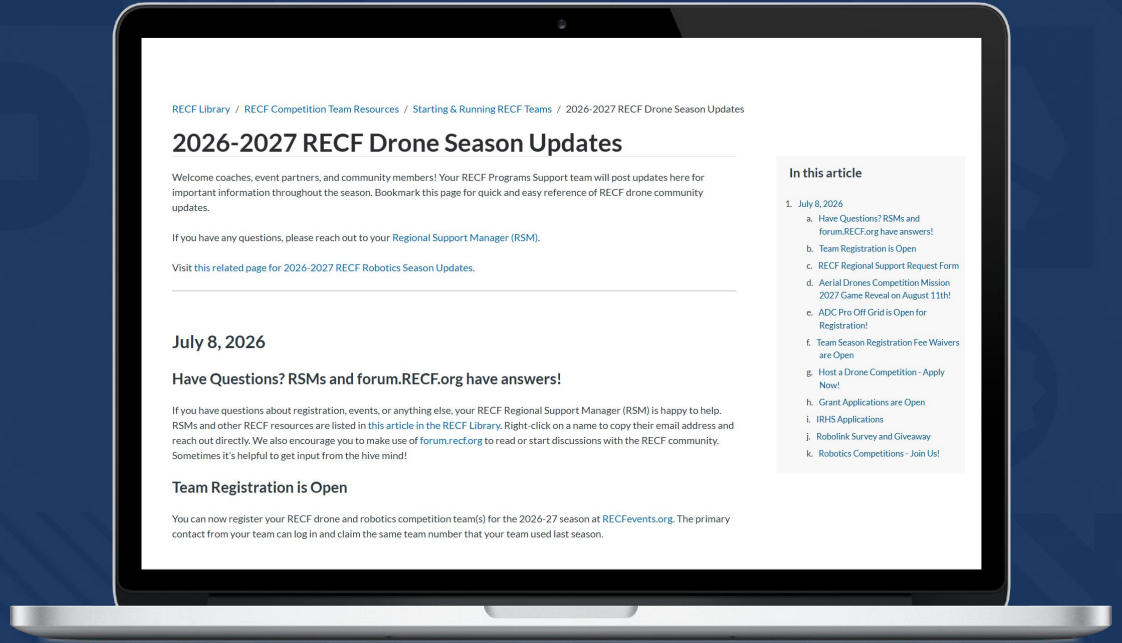
In this article

1. July 8, 2026
 - a. Have Questions? RSMs and forum.RECF.org have answers!
 - b. Robotics Game Manual Updates
 - c. RECF is Planning for the Future
 - d. Team Registration is Open
 - e. Team Season Registration Fee Waivers are Open
 - f. All Teams are Welcome to Compete in RECF Robotics Competitions!
 - g. Events are Open
 - h. RECF Regional Support Request Form
 - i. Grant Applications are Open
 - j. IRHS Applications
 - k. Student Advisory Board Application is Open
 - l. Aerial Drones Competitions - Join Us!

Season Update Page ADC Program



Season Update Page



03

Certifications and Coach Academy

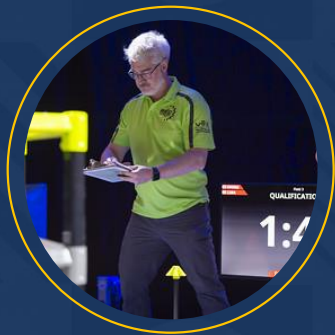
COMING SOON

Training and Certifications

ALL CERTIFICATIONS ACCESSIBLE - training.recf.org



**Drive Team
Member
Training Courses**



**Head Referee
Certification
Courses**



training.recf.org



**Event Partner
Certification
Courses**



**Judge Advisor
Certification
Courses**

RECF Coach Academy

Online training
located on
Moodle platform
training.recf.org

- Courses on
 - Administrative tasks
 - Registration procedures
 - Coaching resources
- New training courses added throughout the season
- PD hours available

Weekly Coach
Academy Office
Hours Calls

- Calls lead by the Training Team
- Different topics each week
- Coaches can sign up for as many calls as they'd like



04

**Training
and Webinars**



REC F Trainings



Coach Training Webinars

- Monthly Online Meetings
- Robots & ADC
- Season Relevant
- 1 hour long
- Often with Q&A time
- PD Hours available



Event Partner Training Webinars

- Monthly Online Meetings
- Season Relevant
- 1 hour long
- Often with Q&A time
- PD Hours available



Head Referee Webinars

- Monthly Online Meetings
- Certified Head Referees only
- Discussing Best Practices
- 1 & 1/2 hour long
- Interactive
- Must be Certified Head Referee to be able to attend



Judging Webinars

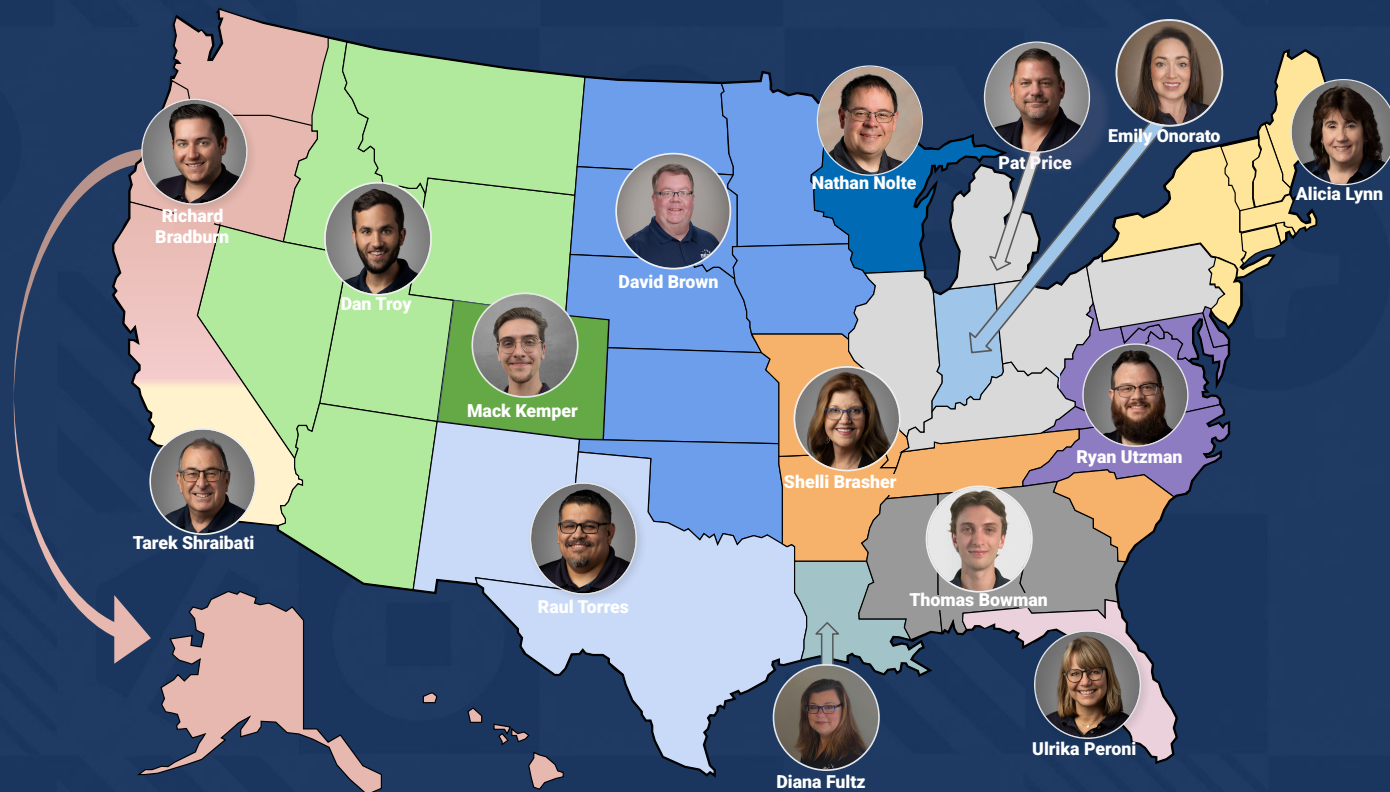
- Monthly Online Meetings
- Explaining Judging Process
- Introducing New Judging Guidelines
- 1 & 1/2 hour long
- Interactive



05

RSM Support

Regional Support Managers



Canada



Richard Seniuk

Latin America & Caribbean



Issac Perez

International



Tarek Shraibati

Grant Support Managers



Diana Fultz



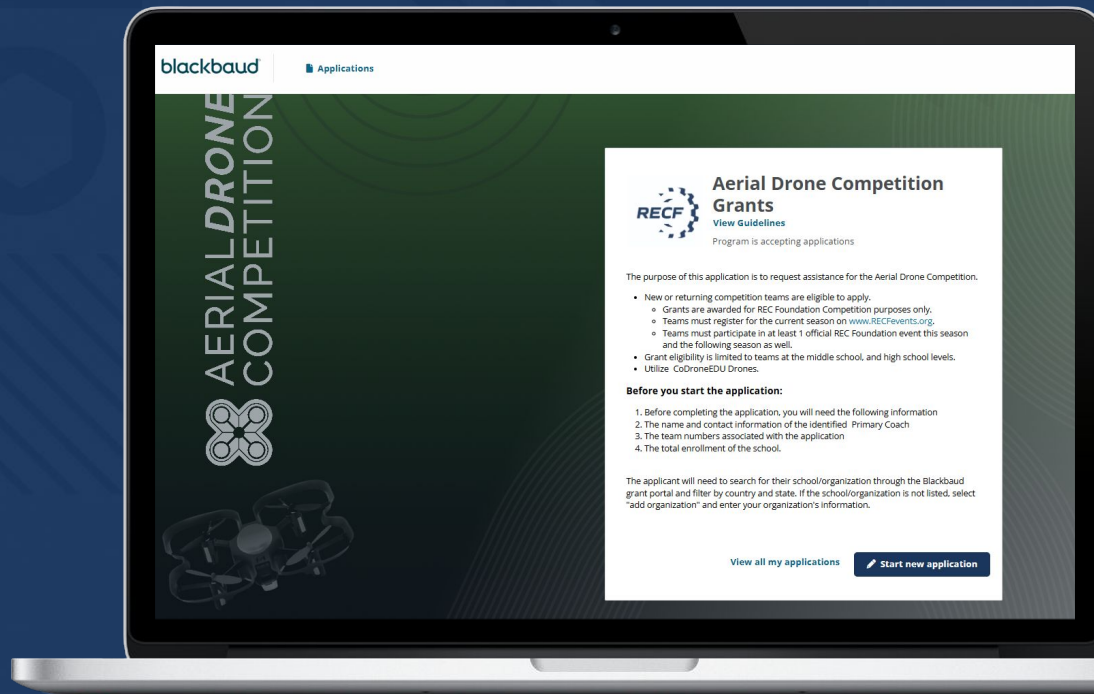
Beverly Ver Steeg



Gene Williams



Grant Information



RECF Support



**How to Contact Your RSM
and additional RECF Support**



06

Equipment Resources

Product Suppliers For Parts & Electronics

RECF ENGAGE
ROBOTICS COMPETITION

TIER TAKEOVER



VEX IQ®
VEX GO®



LEGO® SPIKE™

LEGO® Mindstorms® EV3

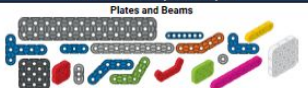
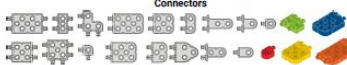
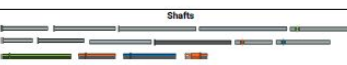
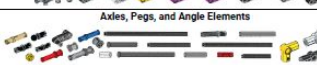
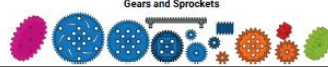
LEGO® Technic™

Legal Parts Page & Inspection Sheet

RECF ENGAGE ROBOTICS COMPETITION

Legal non-electronic parts examples

This is a quick reference for the style of the legal parts systems. This is not a comprehensive guide for all legal parts and colors.

VEX IQ® / VEX GO® parts examples	LEGO® Spike™ / LEGO® Mindstorms® parts examples
Plates and Beams 	Bricks, Panels, and Biscuits 
Connectors 	Frames and Base Plates 
Pins and Standoffs 	Beams 
Shafts 	Axles, Pegs, and Angle Elements 
Gears and Sprockets 	Gears, Sprockets, Bushings, and Ball Bearings 
Wheels 	Wheels 

RECF ENGAGE ROBOTICS COMPETITION

TIER TAKEOVER

RECF ENGAGE

ROBOTICS COMPETITION Team Number: _____

Team Signature: _____

Inspector Signature: _____

Pass: _____

Check the box next to each rule when the robot is confirmed to be in compliance. Initial next to the word "Pass" above when the robot passes inspection.

Base Rules	Non-Electronic Components	Electronic Components
☐ Robot is safe, and can't damage the field, people, or other robots. ☐ Official team number is clearly visible from two sides of the robot on securely attached license plates. Size of license plates is between 1.25" H x 3.25" W and 1.5" H x 3.5" W, and less than 0.75" thick. ☐ Robot starting size is no larger than 11" W x 20" L x 15" H. ☐ Robot does not expand to more than 11" W and 24" L.	☐ Robot only uses structural / mechanical components from the below product lines: - VEX IQ® - VEX GO® - VEX® HEXBUG® - LEGO® Mindstorms® - LEGO® SPIKE™ Prime - LEGO® SPIKE™ Essential ☐ Misc. components follow below rules: 1/8" VEX V5® metal shafts are permitted. - Zip ties are plastic and no larger than 4" x 0.12". - Tape, cable carriers, hot glue, and cable track are only used for cable / tube management. - Rubber bands are no larger than 6" x .25". - No grease or lubricants of any kind.	☐ Robot is easy to turn off / disable by using the power button or unplugging the battery. ☐ All electronic components are only from the VEX IQ® or LEGO® system as defined in rule 2.2. Robot cannot mix electronic systems. ☐ Electronic components are not modified. ☐ Robot has exactly one (1) robot brain, one (1) robot controller (or device that can control the robot via application) and one (1) robot battery. ☐ If Robot is using the VEX IQ® electronic system: Robot has at least one (1) VEX IQ® Radio. ☐ Robot has no more than six (6) motors.
Pneumatic Components	Custom plastic and decorations	Questions for team members
☐ All pneumatic components are from the VEX IQ® system only. Note: Pneumatic devices may only be charged to a max of 100 PSI during competition.	☐ Robot has no more than six (6) total pieces of custom plastic, including both flat cut and 3D printed plastic. Note: Custom license plates, 3D printed adapters, and 3D printed spacers are legal and not counted towards the custom plastic maximum. ☐ Flat cut plastic pieces are each no larger than 3" x 5" in size and no thicker than 0.070". ☐ 3D printed plastic pieces are each no larger than 3" x 3" x 1" in size.	☐ Do you affirm that every element of your robot, including design, build, and programming, is solely the result of the effort of student team members? ☐ Do you affirm that all custom plastic is designed or customized by student team members and made of only the legal material types described in rule 2.2? ☐ Do you understand the game rules as written in the most recent volume of the game manual?
☐ Robot does not have modified pneumatic components other than tubes/wiring cut to length and minor cosmetic labels.	☐ Decorations do not affect other robots.	

*The HEXBUG brand is a registered trademark belonging to Spin Master Corp.
Corresponds with version 1.1 of the RECF Engage game manual, released July 10th 2026.

games.recf.org

Product Suppliers For Parts

RECFACHIEVE
ROBOTICS COMPETITION

PINNACLE



VEX V5®



Pitsco TETRIX® MAX



Robits® by AndyMark



Legal Parts Page & Inspection Sheet

RECFACHIEVE ROBOTICS COMPETITION

This is a reference guide for legal electronic parts in the RECF Achieve Robotics Competition. VEX® and VEX V5® are registered trademarks of Innovation First, Inc., and are used here only to identify hardware and software that participating teams may legally use in competition.

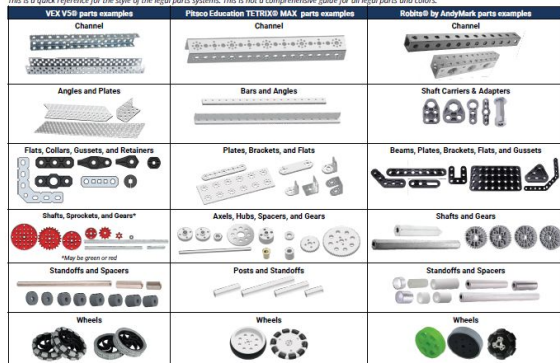
Legal electronics parts examples



RECFACHIEVE ROBOTICS COMPETITION

This is a quick reference for the style of the legal parts systems. This is not a comprehensive guide for all legal parts and colors.

Legal non-electronic parts examples



RECFACHIEVE ROBOTICS COMPETITION PINNACLE

RECFACHIEVE ROBOTICS COMPETITION

Team Number: _____ Team Signature: _____ Inspector Signature: _____

Check the box next to each rule when the robot is confirmed to be in compliance. Initial next to the word "Pass" above when the robot passes inspection.

Base Rules	Non-Electronic Components	Electronic Components
☐ Robot is safe, and can't damage the field, people, or other robots. ☐ Robot starting size is no larger than 18" W x 18" L x 18" H. ☐ Robot does not expand to more than 24" W and 24" L. ☐ Official team number is clearly visible from two sides of the robot on securely attached, appropriately colored plates. Size of plates is between 2.48" H x 4.48" W and 3" H x 7" W (see 2.2.3 for additional requirements).	☐ Robot only uses structural / mechanical components from the below product lines: - VEX V5® - Robotix® by AndyMark - Pitsco Education TETRIX® MAX ☐ Misc. components follow below rules: - Rope / string is no thicker than 1/4" (6.35mm). - Zip ties are plastic and no larger than 12" x 0.25". - Tape is only used for cable management or labeling. - Cable carriers, hot glue, and cable track are only used for cable / tube management. - Anti-slip drawer liner is smaller than 12"x15". - Rubber bands are no larger than 8" x .25". - Anti-static compound and non-aerosol based lubricants or grease are used sparingly and will not leave residue on field, game objects, or other robots.	☐ Robot is easy to turn off / disable by using the power button or unplugging the battery. ☐ All electronic components are only from the VEX V5® system as defined in rule 2.2. ☐ Electronic components are not modified. ☐ Robot has exactly one (1) VEX V5® Robot Brain and one (1) VEX V5® Robot Battery. ☐ Robot has at least one (1) VEX V5® Controller (maximum of 2) and at least one (1) VEX V5® Robot Radio. ☐ VEX V5® Robot Motors do not exceed a combined total of 99W.
☐ Please have student team members briefly identify all electronics, pneumatics, and every custom plastic piece on the robot.		
Pneumatic Components	Custom plastic and decorations	Questions for team members
☐ All pneumatic components are rated for 100 PSI or higher. ☐ Note: Pneumatic devices may only be charged to a max of 100 PSI during competition.	☐ Robot has no more than twelve (12) total pieces of custom plastic, including both flat cut and 3D printed plastic. ☐ Note: Custom license plates, 3D printed adapters, and 3D printed spacers are legal and not counted towards the custom plastic maximum. ☐ Flat cut plastic pieces are each no larger than 4"x12" in size and no thicker than 0.070". ☐ 3D printed plastic pieces are each no larger than 3"x5" x 2" in size. ☐ Decorations do not affect other robots.	☐ Do you affirm that every element of your robot, including design, build, and programming, is solely the result of the effort of student team members? ☐ Do you affirm that all custom plastic is designed or customized by student team members and made of only the legal material types described in rule 2.2? ☐ Do you understand the game rules as written in the most recent volume of the game manual?

Corresponds with version 1.1 of the RECF Achieve game manual released July 10th 2026.

games.recf.org

3D Printing Resources

You can use any 3D Printer for your projects. If you don't have one in your classroom consider resources such as:

- Local Library
- Online Companies
- Local Manufacturing Company
- Local Facebook Groups

07

**Elevating
your program**

ONLINE CHALLENGES



LEARNING BEYOND THE COMPETITION FIELD

An additional option to keep your students engaged in the classroom

- Cycle 1- Impact
 - September- January
- Cycle 2 - Ignite
 - October - December
- Cycle 3 - Innovate
 - December - January



Additional Opportunities



**International
Robotics
Honor Society**



ALUMNI

**Alumni
Association**



**Lettering
& Rings**



INTERNSHIP

Internships



INTERNSHIP

Scholarships

Industry Certification Benefits

Certifications = Opportunities

Many States provide funding for student-earned Industry Certifications.

Industry internships and Post-Secondary schools give favorable weighting to students with RECF Certifications.



Industry Certifications



Perkins Funds



Career Development Funds



Industry recruitment



Students may earn college credits or course credits

08

Discussion



What are resources you would like to see?



What are additional resources you already use?



Are there tutorials or resources for students that you would recommend?

A crowd of people at an event, with a central figure wearing a white hoodie with 'DISC BLASTERS' and '31230' on it, and a white cap with 'KOREA' on it. The person is holding a medal and has their fist raised. Other people in the crowd are also wearing 'KOREA' caps and masks. A dark blue rectangle with the text 'THANK YOU' is overlaid on the left side of the image.

THANK YOU