Team E.L.I.T.E. 48 Safety Class & Introduction to *FIRST*





To provide an introduction to the overall *FIRST* robotics program, its safety program requirements and our team's safety culture.

- What is FIRST and why am I here?
- What are the different programs within FIRST?
- How do I find information about FIRST and different teams?
- What is a competition like?
- How do I qualify to travel with the team?
- Why is safety such a big deal?
- What about COVID restrictions?
- Question Box



CLASS OVERVIEW

*Expectations

(What the team expects from you, and what you can expect from the team)

Schedule

- Saturday mornings at 10:00 AM
- Lasts about an hour (except intro class about 2 hours-ish)
 - Starts with preview of next assignment, then ends with quiz over the previous week's material

Attendance

- MANDATORY This is a team requirement for travel eligibility
- Sign the attendance sheet when you arrive
- Be on time!! Class **STARTS** at 10:00 (door closes at 9:55)
- 4 Rules Come in; Sign in; Turn in; Tune in

Behavior

- Pay attention; Participation
- No Cell Phones
- No interruptions, distractions or outbursts



*The "R" Word

- Examples (Time, Attention, Patience, Acceptance, Peers, Etc.)
- Call and Response
- 2007 team startup 🗥

*Assignments

- Chapter Reading
- Review Questions (Optional)
- To be handed in at the <u>beginning of the next class</u>
 - No late turn-ins
 - Turn in only your own
 - MUST include Name, Date and Chapter assignment
- Weekly quizzes
- Closed book; Closed notes; Closed neighbor (No Cheating)
- Final Exam
- Notes allowed
- Test Bank (Maybe)

CLASS OVERVIEW

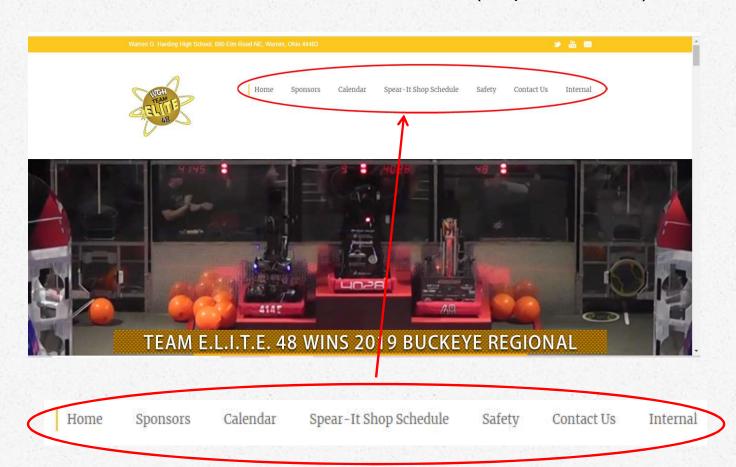
*Grades

- Based on quizzes and final exam
- Bonus points and/or privileges possible for class participation, attendance, review questions, etc.
- Penalties for academic misconduct
- No automatic partial credit entitlement
- Passing is 60% or higher (strive for excellence, not just passing)

RESOURCES

- *Team Website: www.teamelite48.com (delphielite.com)
 - Help needed
- *NEOFRA Website: www.neofra.com 🔨
- *FIRST Website: www.firstinspires.org
- *Social Media:
 - Slack Chat Rooms: frcteam48.slack.com
 - Remind Whole Team Blast: Text "@team48" to #81010
 - (Microsoft) Teams
 - (Safety) Instagram: "SAFETYTIME"

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Home Sponsors Calendar Spear-It Shop Schedule Safety Contact Us Internal



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Home

Sponsors

Calendar

Spear-It Shop Schedule

Safety

Contact Us



2020-21 Team 48 Information

Robotics Time Sheet

November 16, 2020 Team Meeting Agenda

Join the Team 48 Remind

. Text Team48 to the number 81010

Join the Team 48 Slack! (Email address required)

· Click here to join the Team 48 Slack Discussion Groups

Team Education:

- . Introduction to Team 48 and FIRST v2 (PDF)
- · Introduction to Team 48 and FIRST v2 (PowerPoint)

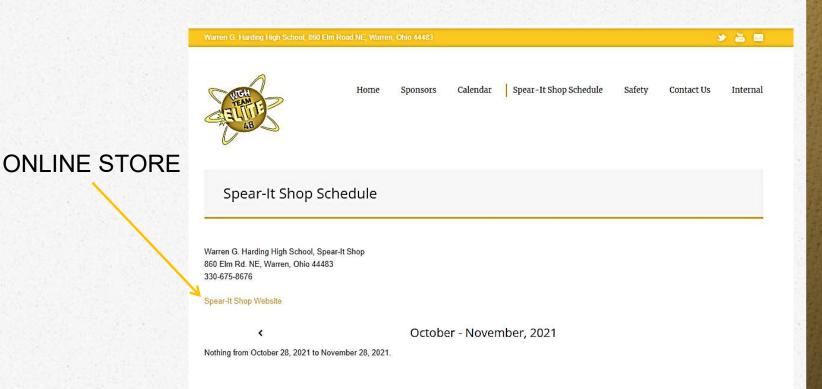
Technical Resources

- Robot Guide for Total Noobs (Team 5256) http://www.chiefdelphi.com/media/papers/3503?
 - · Click me for the Version 10.5 PDF direct download
 - This is an EXCELLENT and INSANELY comprehensive introduction to all kinds of different FRC terminology and robot concepts for those who've never
 done this before. A few pieces of information are erroneous, but hopefully the author will revise and evolve this document to improve it over time. Any



Team Website: www.teamelite48.com (delphielite.com)

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For an Electronic copy of the FRC Team 48 Safety Course Study Guide Click Here!



Weekly Meeting Minutes:

Meeting 1 (January 11, 2020)

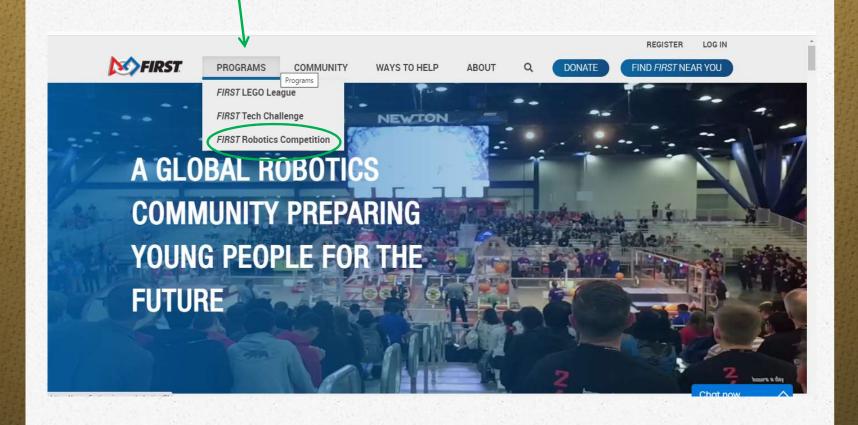
Meeting 2 (January 18, 2020)

Meeting 3 (January 25, 2020)

Meeting 4 (February 1, 2020)

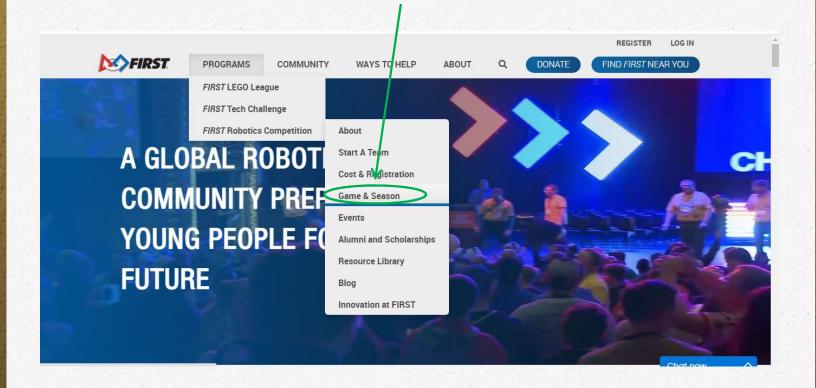
FIRST Website: www.firstinspires.org

Click: PROGRAMS, then Hover over FIRST Robotics Competition



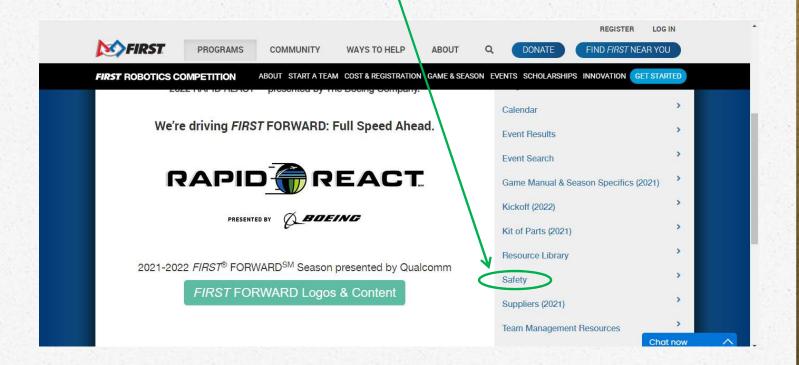
FIRST Website: www.firstinspires.org

Click: Game and Season

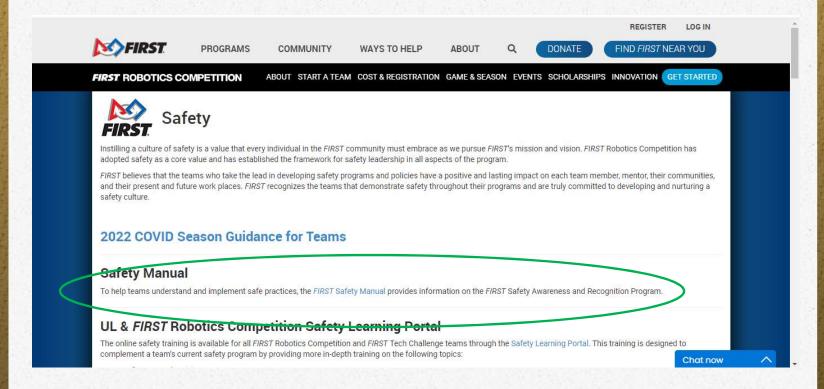


FIRST Website: www.firstinspires.org

Click: Safety



FIRST Website: www.firstinspires.org



Team Bios, Award History, Competition & Season Stats: www.thebluealliance.com



What is FIRST?



FIRST® (**For Inspiration and Recognition of Science and Technology**) is a robotics community that prepares young people for the future through a suite of inclusive, team-based robotics programs. The mission of *FIRST*® is to inspire young people to be science and technology leaders and innovators, by engaging them in exciting mentor-based programs that build science, engineering, and technology skills, that inspire innovation, and that foster well-rounded life capabilities including self-confidence, communication, and leadership.

https://www.firstinspires.org/about/vision-and-mission









Founder: Dean Kamen
Inventor, Entrepreneur
(Segway, iBot Wheelchair,
Coca-Cola Freestyle)

VISION

"To transform our culture by creating a world where science and technology are celebrated and where young people dream of becoming science and technology leaders."

"FIRST is more than robots. The robots are a vehicle for students to learn important life skills. Kids often come in not knowing what to expect – of the program nor of themselves. They leave, even after the first season, with a vision, with confidence and with a sense that they can create their own future."

-Dean Kamen

Dr. Woodie Flowers, (1943 - 2019) EAB Chair Emeritus & Distinguished Advisor



Gracious Professionalism®

It's a way of doing things that encourages high-quality work, emphasizes the value of others, and respects individuals and the community.

Students learn and compete like crazy but treat one another with respect and kindness in the process. They avoid treating anyone like losers. Knowledge, competition, and empathy are comfortably blended. In the long run, *Gracious Professionalism* is part of pursuing a meaningful life... knowing one has acted with integrity and sensitivity.

Coopertition®

Coopertition is displaying unqualified kindness and respect in the face of fierce competition. Coopertition is founded on the concept and a philosophy that teams can and should help and cooperate with each other even as they compete. Coopertition means competing always, but assisting and enabling others when you can.

9



PROGRAMS

FIRST LEGO League (FLL)

*Discover (PreK - Grade 1: ages 4-6)

Builds their habits of learning with hands-on activities in the classroom and at home using LEGO® Duplo bricks.

*Explore (Grade 2-4: ages 6-10)

Focuses on the fundamentals of engineering as they explore real-world problems, learn to design and code and create unique solutions made with LEGO bricks and powered by LEGO Education robot.

*Challenge (Grades 4-8: ages 9-16)

Students engage in research, problem-solving, coding and engineering – building and programming a LEGO robot that navigates the missions of a robot game. As part of Challenge, teams also participate in a research project to identify and solve a relevant real-world problem.

FIRST Tech Challenge (FTC) (Grades 7-12)

Teams design, build, and code robots to compete in an alliance format against other teams. Robots can be coded using a variety of levels of Java-based programming.

PROGRAMS

FIRST Robotics Competition (Grades 9-12)

Under strict rules and limited time and resources, teams of high school students are challenged to build industrial-size robots to play a difficult field game in alliance with other teams, while also fundraising to meet their goals, designing a team "brand," and advancing respect and appreciation for STEM within the local community.

SCHOLARSHIPS

https://www.firstinspires.org/scholarships

~200 \$80 Million Scholarship In Available Providers Scholarships







AWARDS

~ 25 Awards

3 – Competition (1 – Rookie); 4 – Individual; 18 – Judged (2 – Rookie)

Chairman's Award (February 17th)

The Chairman's Award is the most prestigious award at *FIRST*, it honors the team that best represents a model for other teams to emulate and best embodies the mission of *FIRST*. It was created to keep the central focus of *FIRST* Robotics Competition on the ultimate goal of transforming the culture in ways that will inspire greater levels of respect and honor for science and technology, as well as encouraging more of today's youth to become science and technology leaders.

Engineering Inspiration

Celebrates outstanding success in advancing respect and appreciation for engineering within a team's school and community.

Dean's List Award (February 10th)

The students are great examples of current student leaders who have led their teams and communities to increased awareness for *FIRST* and its mission while achieving personal technical expertise and accomplishment. It is *FIRST*'s goal that all Dean's List Semi-Finalists, Finalists and Winners will continue on, post award, as great leaders of *FIRST*'s ever growing student alumni.

Woodie Flowers Award (February 10th)

This award celebrates effective communication in the art and science of engineering and design and recognizes an individual who has done an outstanding job of motivation through communication while also challenging the students to be clear and succinct in their communications.





The *FRC* safety program initially began being tested as a pilot program during the 2004 season where we were first exposed to it at the Greater Toronto Regional in Canada. After a successful test season, *FIRST* released the newly named, "Safety Awareness and Recognition Program" worldwide in 2005, with UL (Underwriters Laboratories) as its domestic sponsor (Bruce Power in Canada). All teams were required to have a designated Safety Captain to establish and maintain proper safety awareness on their teams. As an incentive to encourage all teams to develop a strong safety culture, *FIRST* created several other smaller safety recognition awards, over the years, in order to acknowledge teams, and even individuals, for above average safety conscious performance. Today, safety is the main priority at any FRC event.



- Started safety program in 2005 when FRC Safety Program began
- 1 Safety Captain (Anyone)
- For students, by students (PEERamid)
- Not an easy beginning we are all the same
- We learn as a team
- Teaching others
- Success is challenging The "R" Word (Varsity Letter)
- Awards
- Team resources and documentation



TEAM AWARD HISTORY

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Voodie Flowers Finalist Award							83 98		8	8 /					1		1			1					3
hosphorus Group @Home Challenge																	6			9 5				1	1
liobium Group Imagery Award																								1	1
ther "Does not Exist Anymore"		1			-			1			1	1													4
Total:	0	2		0				6			6						2	6	3			3			81

Team Awa	rds (1998 – 2021)	63							
UL Safety Awards (2014 – 2021) 17									
Other safe		60							
TOTAL		80	77						



SAFETY AWARD HISTORY



#1 in Pit Safety --- 8

FIRST in Pit Safety --- 7

Safety Credit Recognition --- 11

Safety Star of the Day --- 20 (+2); 1 Honorable Mention

Best Safety Culture --- 2

Community Outreach --- 6 2nd, 3rd, Finalist --- 6 Imagery Award --- 1 UL Industrial Safety --- 17

SAFETY ALL-STA



Donnell Conner Mentor - Safety Captain



Michelle Ward Senior - Safety Escort

Jessica Yurioek



2007

Kortnee Price Junior - Safety Escort



Amber Richards Senior - Safety Escort *Honorable Mention 2011





Tiffany Donley Freshman - Safety Captain



Russell, Senior - Safety Captains Caitlyn Marlin, Senior - "Safety Trooper"

2012 Pittsburgh Regional



Tiffany Donley Junior - Safety Captain

Wisconsin Regional



2013

Finger Lakes Regional

Junior - Safety Captain



2013

Junior - Safety Captain



2014

Justina Gazso, Senior / DeVonte' Parker, Junior - Safety Captains





2019



William (Bill) Bell Junior - Safety Captain Sophomore - Safety Escort



Natalie Hall Junior - Safety Captain



Natalie Hall Junior - Safety Captain



Safety Escort Team Senior - Safety Captain

7-Rivers (Wisconsin) Regional



Destiny Johnson Senior - Safety Captain



2017

Destiny Johnson



Mikayla Shively



2019

Mackenzie Johnson Senior - Safety Captain Freshman - Safety Services Sophomore - Safety Services

SAFETY FAMILY CREST

The Safety Family Crest was developed as a symbol of the unity and dedication toward the safety principles of Team 48's Safety and Logistics Sub-Team (family) as well as FIRST's Safety Award and Recognition program.

We have been pioneers and innovators in the safety arena since the inception of FIRST's program in 2005. Despite the abundance criticism we have experienced over many years, the team has remained resilient and faithful toward our ideals and foundation for establishing and maintaining excellence in our safety culture.

Below is a breakdown of the elements of the Safety Family Crest:

Shield and Hard Hat

Represent protection of the family's "house" from the roof to the foundation. Also represents the family member's complete acceptance of our safety culture over mind and body – becoming the soul of our program.

XLVIII

Safety Glasses

Basic, fundamental PPE item established even before FIRST's Safety Awareness and Recognition program; represents the importance of PPE and safe working environments.

Earplugs

Represent "safety awareness". Earplugs block harmful decibel levels from causing (hearing) damage while still allowing the wearer to hear normal sounds, speech and emergency warnings/instructions. This image symbolizes our team's ability and necessity to block out the negative comments and criticism meant to discourage and undermine our outreach activities and effectiveness of our program.

FIRST and Team 48 Logos

These represent the programs upon which our safety team and culture are established.

Unity Ribbon

OBSEQUIM · CONIUNCTIONIS

This is a unification ribbon symbolizing the unification of all of the previously listed items. It incorporates our team number, 48 (XLVIII), and the year the FIRST Safety Awareness and Recognition program was established, 2005 (MMV). The center of the banner bears the Latin terms of our foundational principles, Salutem, Obsequim, Coniunctionis (LOOSELY translated - Safety, Service, Solidarity).

Safety Services/Escort Equipment

We are the proud pioneers and creators of the Safety Escorts/Safety Services program which has been adopted by many other teams, nationally and internationally, throughout FIRST. It also represents our commitment to servicing our local and extended FRC communities.

MMV





Incident Report/Near Miss Forms

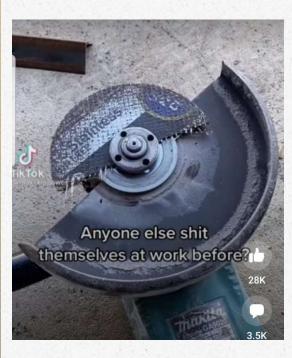
Accidents, injuries and illnesses can occur at any time. It is important to know the Who, What, Where, When, How and Why one of these incidents happen if a safety program wants to continue to advance and protect and defend its members from hazards.

Incident Report forms are documents that detail when an illness or incident has occurred, the treatment for the injury or illness and any resulting corrective action (such as further training for team members, repair to faulty tools/equipment or changes to processes or procedures).

Near Miss forms are documents that alert to conditions that can potentially lead to an incident or illness (such as liquid spills on the floor, team members not wearing proper PPE, accidents that do not result in injury or illness or improperly stored supplies).



EYE PROTECTION







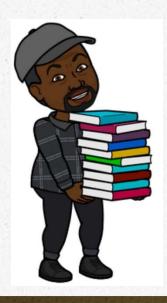


DOCUMENTATION & RESOURCES

Safety Library

Safety Manual -

Safety Bible







- Read Safety Course Workbook
 - Mission Statement
 - UL Page
 - Introduction
 - Background
 - Chapter 1
 - Section 2:2 PPE (Eye Protection and Footwear only)
- Complete Section 1:4 Review Questions (Recommended)
- Quiz Saturday, January 22nd 2022

