

PRODUCED BY **HMS**
HMS GROUP, INC.

2022-2023 Season Safety Training

FRC Torbotics 2080

What is “Safety?”

According to Merriam-Webster...

'sāftē

Noun

1. The condition of being protected from or unlikely to cause danger, risk, or injury.

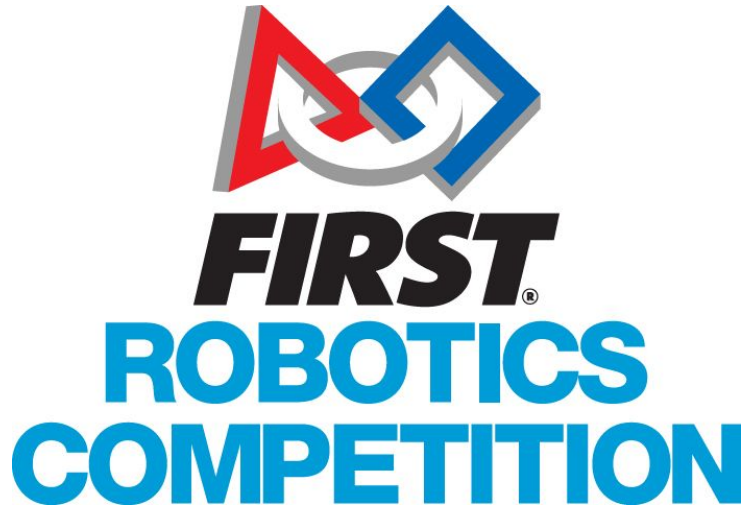
Synonyms: welfare, well-being,
protection, security

Why is Safety Important?

1. To protect ourselves from danger
2. To protect others from danger
3. To maintain proper care of equipment in the shop to ensure that it lasts longer



That's what FIRST says...



“Instilling a culture of safety is a value that every individual in the FIRST community must embrace as we pursue the mission and vision of FIRST. FIRST Robotics Competition has adopted safety as a core value and has established the framework for safety leadership in all aspects of the program.”

Protective eyewear **MUST** be worn in the following situations:

1. Whenever work is being done on the robot (grinding, drilling, soldering, cutting, welding, etc.)
2. Whenever programming is being done and tested on the robot...**RULE OF THUMB:** If the robot parts need to move, your eyes need to be covered.
3. Whenever driving the robot...or you are near the driving robot...**SEE RULE OF THUMB**
4. Whenever there is risk of flying particles or chemical exposure.
5. In posted eye protection areas.

Safety in the 2080 Engineering Shop



Correct!

Incorrect!

Personal Protective Equipment (PPE)

Protect MORE than just your EYES...

Hand Protection: Torbotics maintains a supply of gloves to protect you against heat, electrical, chemical & mechanical hazards.

Hearing Protection: Torbotics maintains a supply of hearing protection devices (EARPLUGS) to be used when there are high sound levels present in the shop.

Foot Protection: Whenever the shop is in use, closed-toes shoes must be worn.



Tool Safety



ALL TOOLS

- **MUST** be put back in their place when you are finished using them. (It slows down the robot build when we have to search for parts that were not put up correctly.)
- Safety training logs are located next to **EACH PIECE** of machinery in the shop.
- **ONLY** team members who are logged as trained on the machine can use it.
- **NEVER** carry unshielded tools in your pocket.
- Never use any safety equipment **WITHOUT** safety guards in place.
- Once you are done using a machine it **MUST** be unplugged.
- **DON'T LEAVE** tools on overhead work spaces where they can be knocked off and strike someone below.

Batteries are dangerous and should always be handled with care.

In the bottom of the battery cart there is a battery spill kit which should be used any time a battery spills or leaks battery acid.

Do NOT place liquids near the battery cart or batteries at any time.

Do NOT leave the batteries charging overnight.

Battery Safety



Robot Safety



Any team member helping with transporting the robot should be trained on proper lift procedures.

The robot should be powered OFF when lifting.

Team members and mentors need to be a safe distance away from the robot BEFORE it is enabled.

ALWAYS wear safety glasses when working near the robot no matter where you are.

Your Team 2080 Safety Station

Torbotics maintains a fully stocked Safety Station.

It should be used for all First Aid needs.

Instructions for specific First Aid care is located in the Safety Station.

All Personal Protective Equipment is located in the Safety Station.

Team members should alert the Safety Captain whenever new supplies are needed for the Safety Station.



Other Safety Considerations



During robot build and machinery use:

- You cannot wear hanging jewelry.
- Any drawstrings on jackets or hoodies must be tucked.
- Long hair must be pulled back with a hair tie (and headband, if needed).
- Do not run in the shop.
- No horseplaying in the shop.

Even if you do not plan to be a part of the build on any given day, you must still follow the above safety rules to be able to be in the shop.

Report of Safety Concern or Non-Medical Incident

Team 2080 is committed to the safety and development of each team member.

Should you feel uncomfortable about a peer interaction, unsure of how to proceed with a conflict or witness an injustice, we want to hear about it.

Forms will be reviewed and addressed our team's lead mentors **ONLY**.

Forms can be found on the **Member Portal** on the team's website.

www.torbotics2080.org

Team 2080 Safety is Up to YOU



All team members will receive a copy of the 2022-2023 Team Safety Manual.

Team members are responsible for reading the manual and maintaining the safety practices it contains.

Team members should report ALL safety hazards to our Safety Captains and Lead Mentors.

MINOR INFRACTIONS

- 1) Warning
- 2) Shop suspension (time dependent on infraction)
- 3) Mentor conference
- 4) Shop suspension (time dependent on infraction)
- 5) Parent/mentor conference
- 6) Meeting suspension
- 7) Parent/mentor conference
- 8) 2 week probation
- 9) Removal from team

MAJOR INFRACTIONS

- 1) Warning
- 2) Shop suspension (time dependent on infraction)
- 3) Mentor conference
- 4) Meeting suspension
- 5) Parent/mentor conference
- 6) 4 week probation
- 7) Removal from team

Questions?

