

2022 Las Vegas Regional Team Event Guide



PRESENTED BY  **BOEING**

Congratulations on completing the robot build season.
Now let's get ready for the competition!

Greetings and Welcome to the 2022 Las Vegas *FIRST*[®] Robotics Competition Regional!

After too long of a hiatus, we're excited for a return to an in-person Las Vegas Regional. This year also marks a return to the [Thomas & Mack Center](#) as our host venue.

In preparation for the Las Vegas Regional, we've put together this Event Guide to help teams get the most fun out of the competition. We hope the information found in this guide answers your questions, but if you have any left outstanding, please don't hesitate to contact the FIRST Nevada Regional Director, Angela Quick, at AQuick@FIRSTInspires.org.

Additional details for the 2022 Las Vegas Regional, as well as a list of participating teams, is available on the [FIRST event information webpage](#). Teams are also reminded that the complete [Competition Manual](#) is available from *FIRST*[®].

The FIRST Nevada Board of Directors and Regional Planning Committee wish you the best of luck at the event and look forward to meeting you!

Angela Quick
FIRST Nevada
Regional Director

Dr. Shelly Freid
FIRST Nevada
FRC Committee Chair



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Event Schedule

Competition Schedule

Day 0 **Wednesday, March 30**
6:00 pm - 8:00 pm 5 team members to load in

Day 1 **Thursday, March 31**
7:45 am 5 team members to load in
8:30 am Pits and Machine Shop open
8:30 am - 12:00 pm Registration and Robot Inspection. Driver's Meeting. Field open for measurement and calibration.
11:00 am - 12:00 pm Lunch
12:00 pm - 6:30 pm Practice Matches
8:00 pm Pits and Machine Shop close

Day 2 **Friday, April 1**
8:00 am Pits and Machine Shop open
8:30 am - 9:00 am Opening Ceremonies
9:00 am - 12:00 pm Qualification Matches
12:00 pm - 1:00 pm Lunch
1:00 pm - 5:45 pm Qualification Matches
5:45 pm - 6:15 pm Awards Ceremony
~6:30 pm Pits and Machine Shop close immediately following the Awards Ceremony

Day 3 **Saturday, April 2**
8:00 am Pits and Machine Shop open
8:30 am - 9:00 am Opening Ceremonies
9:00 am - 12:15 pm Qualification Matches
12:15 pm - 12:30 pm Alliance Selections
12:30 pm - 1:30 pm Lunch
1:30 pm - 4:30 pm Playoff Matches
4:30 pm - 6:00 pm Awards Ceremony
6:30 pm Pits Close

Activities Schedule

Day 1 **Thursday, March 31**
8:00 am - 6:00 pm USAF Activation

Day 2 **Friday, April 1**
8:00 am - 4:00 pm Technology, Sponsor, and Scholarship Row
8:00 am - 6:00 pm USAF Activation
12:00 pm - 1:00 pm LVA Mariachi Band

Day 3 **Saturday, April 2**
8:00 am - 12:00 pm Technology, Sponsor, and Scholarship Row
8:00 am - 6:00 pm USAF Activation
11:00 am - 1:15 pm VIP Tours and Luncheon (By invitation only)

REGIONAL RALLY
Check-In (8:30 am) FLLE Expo
9:00 am - 12:30 pm FLLC Demonstration and Expo
FTC Demonstration and Expo

**Schedule subject to change. All times are estimated based on flow of the rounds.
See the Pit Administration table for updated times.**



Directions to the Las Vegas Regional

The Las Vegas Regional is at the Thomas & Mack Center ([4505 S Maryland Parkway, Las Vegas, NV 89154](#)) on the University of Nevada, Las Vegas campus. The venue is easily accessible from all major roadways through Las Vegas, as well as Harry Reid International Airport.

From I-15 North

Take exit 36 for Russell Road toward Frank Sinatra Drive. Keep right and follow signs for Tropicana Avenue. Turn right onto Tropicana Avenue and head east. Turn left onto University Center Drive (formerly Swenson Avenue). Turn right at the first cross street onto Thomas and Mack Drive.

From I-15 South

Take exit 37 and keep left at the fork to merge onto Tropicana Avenue. Head east on Tropicana Avenue. Turn left onto University Center Drive (formerly Swenson Avenue). Turn right at the first cross street onto Thomas and Mack Drive.

From I-95 North

Take exit 68 for Tropicana Avenue and turn left to head west on Tropicana Avenue. Turn right onto University Center Drive (formerly Swenson Avenue). Turn right at the first cross street onto Thomas and Mack Drive.

From I-95 South

Take exit 68 for Tropicana Avenue and turn right to head west on Tropicana Avenue. Turn right onto University Center Drive (formerly Swenson Avenue). Turn right at the first cross street onto Thomas and Mack Drive.

From Las Vegas Boulevard (The Strip)

If you are traveling on Las Vegas Boulevard, turn onto Tropicana Avenue and head east. Tropicana Avenue will take you directly to the Thomas & Mack Center, which is located on the corner of Tropicana and University Center Drive (formerly Swenson Avenue). Turn left onto University Center Drive (formerly Swenson Avenue). Turn right at the first cross street onto Thomas and Mack Drive.

From the Airport

Follow signs to University Center Drive (formerly Swenson Avenue). University Center Drive (formerly Swenson Avenue) runs directly into the Thomas & Mack Center. Turn right at the first cross street after Tropicana Avenue onto Thomas and Mack Drive.



Hotel Accommodations

FIRST Nevada does not have special hotel rates associated with the Las Vegas Regional. However, being Las Vegas, [there are plenty of options near the venue](#). Below are some hotels in order of closest proximity to the venue.

- Hyatt Place Las Vegas (0.6 miles)
4520 S Paradise Road, Las Vegas, NV 89169
- Virgin Hotels Las Vegas, Curio Collection by Hilton (0.7 miles)
4455 Paradise Road, Las Vegas, NV 89169
- Embassy Suites by Hilton (0.7 miles)
4315 S University Center Drive, Las Vegas, NV 89119
- Alexis Park All Suite Resort (0.8 miles)
375 E Harmon Avenue, Las Vegas, NV 89169
- Wyndham Grand Desert (1.3 miles)
265 E Harmon Avenue, Las Vegas, NV 89169
- The Westin Las Vegas Hotel (1.6 miles)
160 E Flamingo Road, Las Vegas, NV 89109

The hotels along the Las Vegas Boulevard, also known as *The Strip*, are close by, and options as well, but teams may want to stay off *The Strip* during the weekend if they plan to drive as traffic is very busy in the evenings.

Drayage and Robot Transportation

For teams needing to ship their robot, they should first reference the [FIRST Inspires Resource Library on Robot Transportation](#). This applies to teams traveling to the Las Vegas Regional from out of the state or out of the country.

If you are an international team and need assistance with local shipping to and from the area, we have limited options to help with this. Please contact the Regional Director, Angela Quick, at AQuick@FIRSTInspires.org to coordinate.

Game Items

As a reminder, teams should bring the red and blue aprons to their event. The aprons were provided to teams in their Kickoff Kits and are used as a way for referees to determine which Human Player is on which alliance. There will be extra aprons available to borrow should a team need; please check with the Field Technical Advisor (FTA) at the event.



Load-In and Load-Out Route

Teams are invited to load-in their equipment on Wednesday evening from 6:00 pm until 8:00 pm, and on Thursday morning from 7:45 am until 8:30 am.

Load-in will take place from the Tunnel Parking Lot located on the northwest side of the Thomas & Mack Center. (See the map on the next page.) The Tunnel Parking Lot has one entrance. Only vehicles with equipment to unload or load are allowed in this lot. There is ample room for multiple teams to transfer equipment simultaneously.

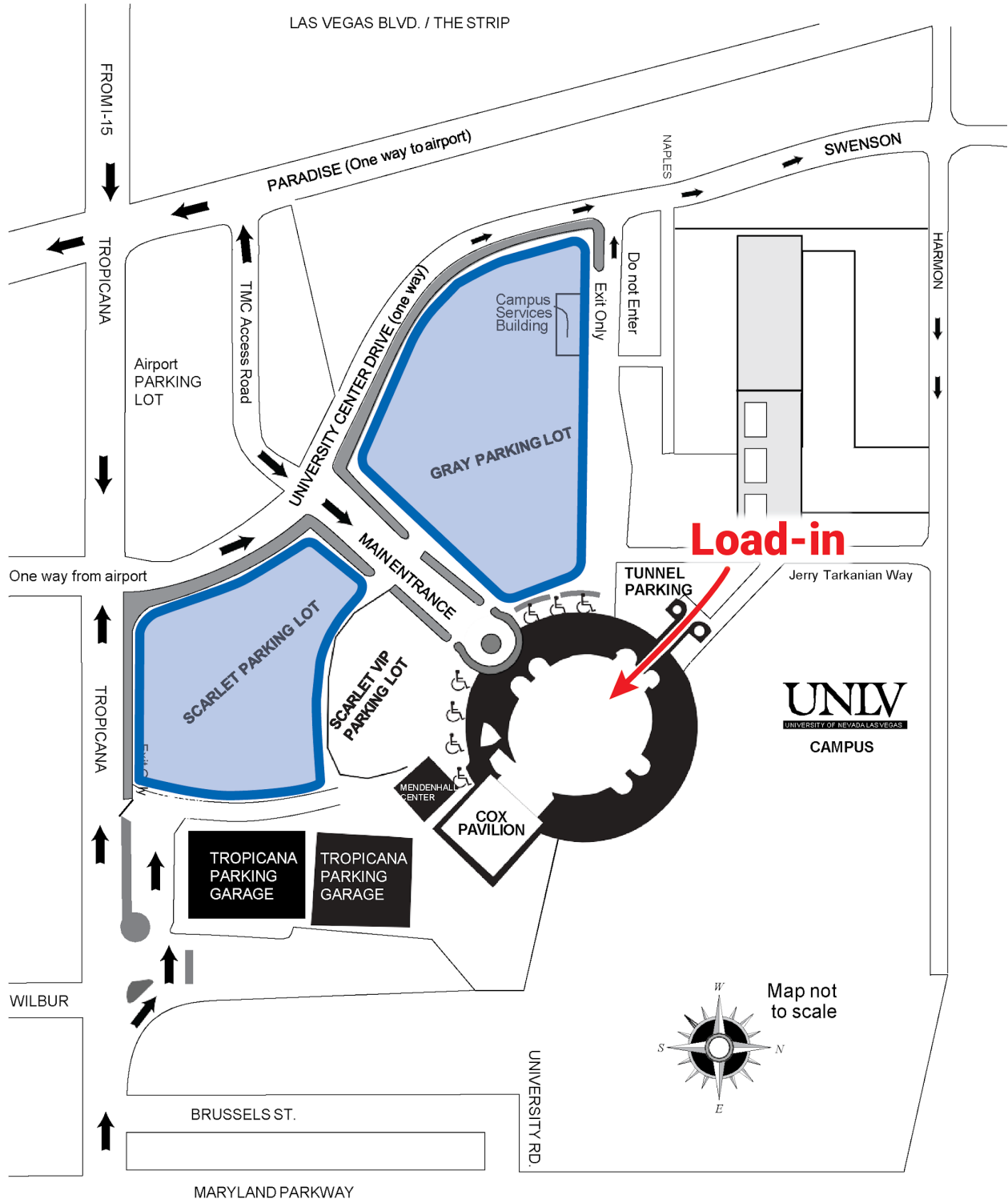
Once in the load-in zone, teams are asked to quickly unload their equipment and then promptly relocate their vehicles to either the Gray or Scarlet parking lots. Drivers must stay with the vehicle at all times; no exceptions. We recognize that the loading process may take some time, but teams are asked to be mindful of others as they are trying to do the same.

Parking attendants and volunteers will be on hand to help direct and assist you.

Load-In Instructions

During load-in safety glasses, closed heeled and closed toed shoes, appropriate clothing, and appropriate hair ties are required. The following rules must also be followed during load-in:

- No more than five members of each team, with one being an adult mentor, are allowed to load-in a team's equipment.
- Safety glasses must be put on before entering the Pits. It's best for team members to have them on as soon they get out of their vehicles to support the team's load-in.
- During the load-in periods, teams are only allowed to place their equipment in their designated Pit. Teams cannot begin setting up their Pits until Thursday morning, after the load-in period is over at 8:30 am.
- No work of any kind on the robot is allowed during the load-in periods, even if an inspector is present.
- Teams are asked to leave the Pit area once their equipment has been dropped off, including the Thursday morning load-in period. This helps keep the Pits safe by minimizing congestion in the Pit aisles.
- Teams must have their Pits in a safe state when they leave, even after dropping off their equipment during load-in.





Load-Out Instructions

Load-out will also take place in the Tunnel Parking Lot with only equipment transport vehicles allowed in the lot. As with load-in, drivers must stay with the vehicle at all times.

For load-out, all Pit materials, tools, and robots must be queued in the staging area before bringing the team's vehicle(s) to the Tunnel Parking Lot. Teams are asked to designate a limited number of team members, which must include one adult mentor, to assist with load-out.

Student Drop Off and Pick Up

Buses should drop off and pick up team members in the Gray parking lot. Do not use the round-about that's in front of the Thomas & Mack Center for drop off and pick up. This area already has heavy congestion with foot traffic.

Parking

Teams are asked to park in either the Gray or Scarlet Lots indicated on the map (the colored in blue sections). Teams are not allowed to park in the Tunnel Parking Lot that's used for load-in and load-out. This lot is strictly reserved for event volunteers and requires a parking pass. Parking is free in the Gray and Scarlet lots during the Las Vegas Regional.

Due to venue restrictions, there is no overnight parking. This includes buses and trailers.

Spectators

At the time of this writing, spectators are welcome to attend the 2022 Las Vegas Regional. There's plenty of seating available in the stands to accommodate social distancing practices. Spectators are also welcome to visit teams in the Pits.

Safety glasses are required at all times for anyone in the Pits.

Any changes to the spectator policy will be communicated directly to coaches and shared on the [FIRST event information webpage](#). For further information related to the COVID pandemic, please refer to the following documents:

- [COVID-19 Impact Updates from FIRST HQ](#)
- [2022 FIRST Robotics Competition COVID Season Guidance](#)
- [FIRST Nevada COVID Safe Event Guidelines](#)



Event Layout

The competition field and Pit areas are located on the arena floor of the Thomas & Mack Center. A Pit map will be on display at the venue and printed on the back cover of the program.

The Practice Field and Machine Shop are located beneath the stands in the same tunnel teams pass through during load-in and load-out.

Team Pits

Teams can begin setting up their Pits on Thursday morning at 8:30 am, when the Pits officially open for the first time.

Each pit is a 10' x 10' space with one power drop (10 amps). Teams are encouraged to bring their own powerstrip with an appropriate surge protector. Any items taped to the floor—such as extension cords—must be done so with gaffers tape only. No electrical or duct tape should be used.

Air compressors are not allowed in the Pit area. Teams needing an air compressor can visit the Machine Shop located in the tunnel beneath the bleachers. Teams are also not allowed to run fabrication equipment outside of when the Pits are open. This includes 3D printers. Fabrication equipment can only be used when someone is in attendance.

Due to venue restrictions, canopy covers are not allowed over the Pit.

Although canopies cannot be used, support trusses (like those that come with a standard pop-up tent) are allowed and make for wonderful supports to hang team banners and other fun and unique items.

Teams are highly encouraged to show their team spirit through their Pit decorations.

For Pit display ideas, see the Chief Delphi threads on [Pit Structure Ideas](#) and [What Makes a Good Pit?](#)

Teams should also plan to bring all necessary tools and equipment to make adjustments and fixes to their robots. In the spirit of Coopertition, teams are also encouraged to help one another out by providing assistance to other teams and temporarily loaning tools.

Throughout the event, volunteers, judges, and even the public visit teams in their Pit. For their safety, and the safety of the participants, teams are required to maintain a safe Pit area.



Machine Shop

The Las Vegas Regional Machine Shop services are provided by team 987, the HIGHROLLERS, from Cimarron-Memorial High School in Las Vegas. For safety reasons, only approved volunteers are authorized to use the machine shop equipment, but teams are welcome to request specific fabrications.

The Machine Shop operating hours closely coincide with when the Pits are open:

Thursday, March 31	8:30 am - 8:00 pm	
Friday, April 1	8:30 am - 6:30 pm	Closes immediately following the Awards Ceremonies (approximately 6:30 p.m.)
Saturday, April 2	8:30 am - 4:30 pm	Closing time is approximate; check with Pit Admin for updates

Local Hardware Stores

Here's a short list of nearby hardware stores within close proximity to the venue.

- Standard True Value (1.3 miles)
1640 E Tropicana Avenue, Las Vegas, NV 89119
- Tools For Less (1.6 miles)
2169 E Tropicana Avenue, Las Vegas, NV 89119
- Target (1.5 miles)
4001 S Maryland Parkway, Las Vegas, NV 89119
- Nevada Water Gardens | Just in case it's a water game (1.8 miles)
5445 Caliente Street, Las Vegas, NV 89119
- Best Buy (2.1 miles)
3820 S Maryland Parkway, Las Vegas, NV 89119
- Walmart Supercenter (2.5 miles)
3075 E Tropicana Avenue, Las Vegas, NV 89121
- Lowe's Home Improvement (2.7 miles)
5825 S Eastern Avenue, Las Vegas, NV 89119
- The Home Depot (4.1 miles)
6025 S Pecos Road, Las Vegas, NV 89120



Food Options

Concessions will be sold at select Thomas & Mack stations on the main concourse level. There are additional food options in the surrounding area. It's recommended that each team assigns a few adults to develop a plan for providing meals and snacks for the team throughout the event.

Outside food or beverages are not allowed inside the venue.

The only exception is that teams can bring in bottled water.

Teams are welcome to tailgate in the back areas of either the Gray or Scarlet parking lots.

To make sure your team is prepared and on time for their first match after lunch, it's highly recommended that the entire team not leave the venue for lunch.

The following is a small sampling of area restaurants, which are in close proximity to the venue:

- The Modern Vegan | Vegan (0.3 miles)
700 E Naples Drive, Suite 111, Las Vegas, NV 89119
- Big Chicken | Chicken (0.6 miles)
4480 S Paradise Road, Suite 1200, Las Vegas, NV 89169
- Naked City Pizza Paradise | Pizza (0.6 miles)
4608 S Paradise Road, Las Vegas, NV 89169
- Fries N' Pies | Pizza (0.8 miles)
4503 S Paradise Road, Suite 350, Las Vegas, NV 89169
- Domino's Pizza | Pizza (0.8 miles)
4966 S Maryland Parkway, Las Vegas, NV 89119
- Firehouse Subs | Sandwiches (0.9 miles)
4761 S Maryland Parkway, Las Vegas, NV 89119
- Pizza Forte | Pizza (0.9 miles)
4700 S Maryland Parkway, Suite 110, Las Vegas, NV 89119
- Jimmy John's | Sandwiches (0.9 miles)
4800 S Maryland Parkway, Las Vegas, NV 89119
- Cupbop | Korean BBQ (1.0 miles)
4680 S Maryland Parkway Ste 300, Las Vegas, NV 89119
- Poke Heaven | Hawaiian (1.0 miles)
4747 S Maryland Parkway, Las Vegas, NV 89119
- In-N-Out Burger | Burgers (1.1 miles)
4705 S Maryland Parkway, Las Vegas, NV 89119



Chairman's Award and Dean's List Interview Information

Chairman's Award Interviews

The Chairman's Award Interviews will be held on Friday, April 1. Listen for Pit announcements around lunchtime on Thursday for the posting of team assigned interview times. The Chairman's Awards interview schedule will be posted in the Pit Admin area.

Teams are expected to check in with the Chairman's Award queuer at the hallway entrance next to the Chairman's Award sign 15 minutes prior to their interview. If they cannot make their scheduled time, it is up to the team to find another team willing to swap interview times. Both teams will then come to Pit Admin who can approve the change and Pit Admin must alert the Judge Advisor or Judge Advisor Assistant. As always, make sure to bring your Gracious Professionalism and remain quiet in the hallway while waiting for your interview.

As a few helpful reminders,

- Teams must provide judges at the event with a video on a USB. The team may show this video during their interview but are not required.
- Teams are encouraged, but not required, to provide judges a completed [Chairman's Documentation Form](#).

Dean's List Interviews

Listen for Pit announcements around lunchtime on Thursday for the posting of assigned interview times. The Dean's List semi-finalist interview schedule will be posted in the Pit Admin area. The Dean's List interviews will be conducted on Friday, April 1.

Interviewees are expected to check in with the Dean's List queuer at the hallway entrance next to the Dean's List sign 15 minutes prior to their interview time. Interviewees are reminded to bring their Gracious Professionalism and remain quiet in the hallway while waiting for your interview.

Team Media Badges

Each team will receive one media badge at check-in. Team members wearing a media badge must have a camera or phone with them and accompany their drive team with the robot to the competition field. Team members wearing the media badge cannot work on a robot, coach/strategize after entering the queuing area or during a match, or leave the designated media area during a match. Media members must stay with the drive team in the queuing area until their team is loading onto the field. Volunteers on the field have the option to make changes as needed for safety and to ensure a good flow of matches. Team media requirements are strictly enforced.



Social Media

During the Las Vegas Regional, teams are encouraged to use social media to showcase their adventures by using the hashtags:

- #FIRSTNevada
- #LasVegasRegional
- #MakeltLoud
- #OMGROBOTS
- #MoreThanRobots
- #FIRSTtweets

Watch the Las Vegas Regional on Twitch channels [firstinspires15](#) and [firstinspires16](#).

FIRST Scholarship Information

Scholarship information for *FIRST* participants is available at Scholarship Row, located in the Pits on the way to the practice field.

United States Air Force Activation

The United States Air Force has an Activation setup outside the entrance to the Thomas & Mack Center. Teams are encouraged to visit during their downtime.

FIRST Nevada Regional Rally

On Saturday, from 9:00 am until 12:30 pm, the other *FIRST* programs will be on display as part of the annual FIRST Nevada Regional Rally. *FIRST* Robotics Competition team members are encouraged to visit the Regional Rally festivities and to share words of encouragement to future FRC participants.

Security Reminders

It is highly recommended that teams use security locks or cables to attach computers to a large object such as a table. Label all robot batteries, battery chargers, controllers, etc. with your team number. Turn in lost and found items to the Pit Admin in the Pit area. Do not leave valuables unattended.



Venue Restrictions

Please read the following restrictions and adhere to them in order to promote an orderly, safe, pleasant, and exciting competition. As a group, we all should honor agreements with the venue and help promote the spirit of good partnership.

- **Do not use skateboards or 'hoverboards'.** This is a safety concern.
- **Do not use drones.** This is a safety concern.
- **Do not bring bottled gas tanks (e.g. helium).** This is a safety concern.
- **Do not use noisy devices,** such as floor stompers, whistles, and/or air horns.
- **Do not arrange for Internet access or phone lines** from venue service providers or attempt to use venue internet connections reserved for event purposes (e.g., FMS or streaming).
- **Do not sell any products.** This includes food, hats, shirts or any promotional products.
- **Do not distribute any food products;** such as candy, water, soft drinks or fruit.
- **Do not sell raffle tickets.**
- **Do not use walkie-talkies.**
- **Do not invite or bring live bands to play in the audience.** This dilutes the presentation on the playing field and is too loud and confusing for the audience.
- **Do not play loud music in the Pit** because it interferes with important announcements. If a team receives more than one warning, power to the team Pit will be turned off and/or the music device confiscated.
- **Do not form "tunnels" during the Awards Ceremony.** This can cause discomfort to those traveling through them and creates safety issues.
- **Do not save seats.**
- **No outside food or beverages allowed inside the venue,** except for bottled water.
- **Do not hang anything on the venue walls;** including signs, banners, flags, drapes, etc.
- **The venue will not accept or store team robots or toolboxes.**

Safety is a Priority

It is not guaranteed that there will be enough safety glasses for team members. Therefore, teams should bring enough safety glasses for every student, mentor, and family member that may be visiting the team in the Pit area. Teams might consider bringing extras in case glasses are broken or misplaced. *FIRST* has only a limited supply of safety glasses on hand for use by volunteers and attendees.

Everyone is required to wear ANSI-approved eye protection (safety glasses) while in the Pit area. Lightly tinted yellow, rose, blue and amber tints are *FIRST* approved. Reflective lenses are prohibited; eyes must be clearly visible to others.



FIRST Robotics Competition participants must wear closed-toed shoes that completely cover the entire foot. Shoes must be substantial and have closed toe and heels to protect against foot injuries, regardless of work location. Flip-flops, sandals, mules, lightweight slippers, etc. are not acceptable.

Spectators attending *FIRST* competitions should follow the same footwear rules as the teams. Loose sandals (like flip-flops) or bare feet are not permitted in the Pit area under any circumstances. Spectators who do not meet the footwear requirement for participants are not allowed inside individual team Pits or where robots are being worked on; they must remain in the Pit aisles only.

Children 12 and under must have a person 18 or older with them at all times. There are a limited number of child safety glasses available to borrow at the entrance to the pit area. Child strollers and baby carriages are not allowed within the individual Pit stations.

Safety glasses are required during load-in. If the team ships their robot in a crate, then it's important to bring safety glasses with them for load-in.