

FIRST IN SHOWSM

PRESENTED BY **Qualcomm**

Sammamish District Site Specific
Information March 6, 2024

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Competition schedule



Sammamish District Event Schedule March 22 – March 24

Competition Schedule

March 22	
5:00PM-8:00 PM	Pits Open
March 23	
8:00AM-11:00AM	Pits Open, Inspections, Field Measurement/Calibration, Practice Rounds
11:00AM-11:15AM	Opening Ceremonies
11:15AM-1:00PM	Qualification Matches
1:00PM-2:00PM	Lunch
2:00PM-8:00PM	Qualification Matches
8:15PM*	Pits Close
March 24	
8:00AM	Pits Open
9:00AM-9:15AM	Opening Ceremonies
9:15AM-11:00AM	Qualification Matches
11:00AM-11:30PM	Alliance Selections
11:30AM-12:30PM	Lunch
12:30PM-3:30PM	Final Rounds & Awards Ceremony
4:00 PM*	Pits Close

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

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Activity Schedule



Sammamish District Activity Schedule Mar 23-24, 2024

Activity Schedule

March 23	
	Menstrual Equity hosted by 2412
	Quiet Room hosted by: No Host at this time
	Unified Robotics
9:00 AM – 12:00 PM	FLL Explore Expo
1:00 PM/beginning of lunch	Sr Photo on the competition Field
2:30 – 3:30 PM	LGBTQ+ of FIRST Meetup, hosted by 2412 & 8248
3:45 – 4:45 PM	Bellevue Alliance Workshop hosted by the Bellevue Alliance (492, 948, 949, 1899, 2412, 7461, 9036)
5:00 – 6:00 PM	Women & Non-binary Individuals in STEAM hosted by 9036
6:15 – 7:15 PM	Sustainability Workshop hosted by 1899
End of match play	Alum Photo on the competition field
March 24	
	Menstrual Equity hosted by 2412
	Unified Robotics
7:00 AM	Mentor Coffee, (See Pit Admin for room)
See Schedule on door	Quiet Room hosted by: No host at this time
8:45 AM	Line up for Mascot Parade
When done with match play	Return Zebra Tags

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

Is a Friday, Saturday, Sunday event

Day 1 is Friday

Day 2 is Saturday

Day 3 is Sunday

To lessen confusion, the rest of this PowerPoint will talk about Day 1, Day 2 and Day 3

District Event RSVP

For each of your district events, we need you to RSVP on

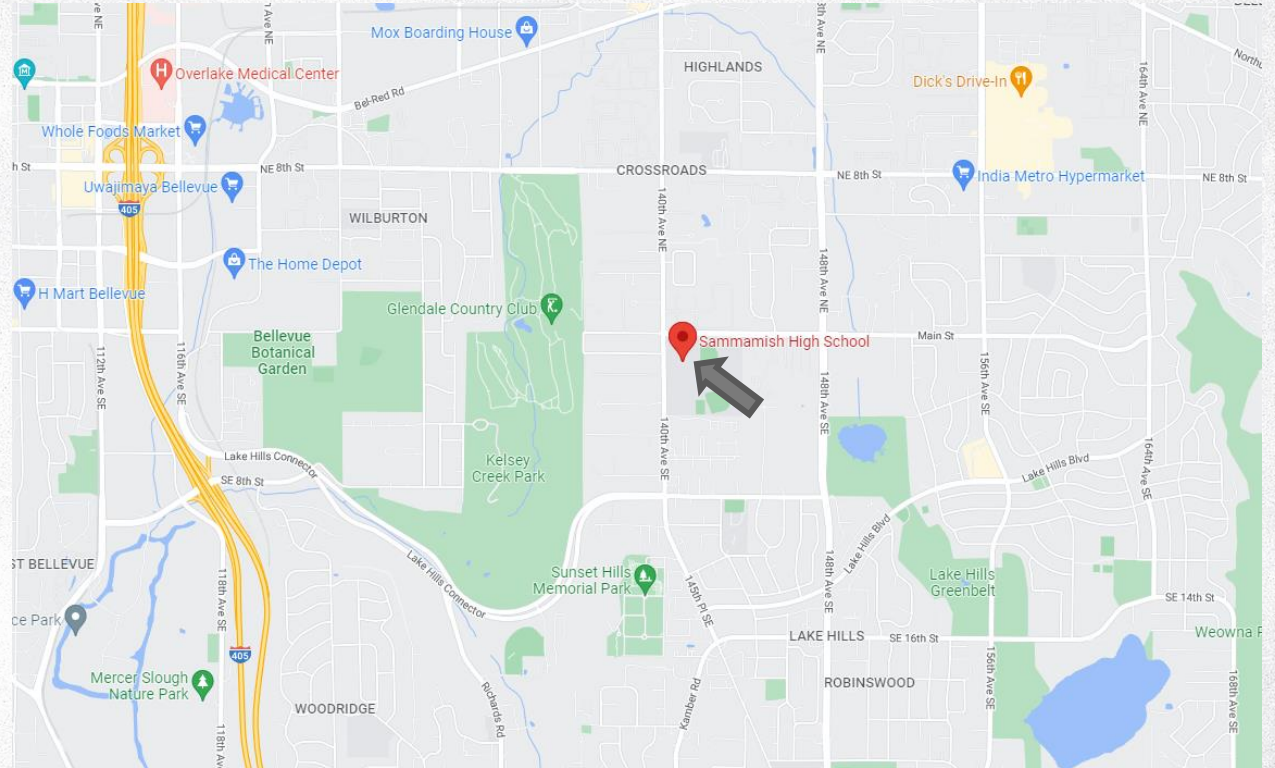
<https://firstwa.org/frc-rsvp/>

On the form, please fill in:

- Which event you are RSVPing for
- The onsite main contact for each team
- We need a contact **mobile phone** number for your team – **Please don't list a school number, you are not at the school when we need to reach you!**
- Tell us if you need a table, or you won't get one!
- Please do this by **Friday, 3-8-24** (if you fill it out after this, you will not be guaranteed a table)

Sammamish District Event

100 140 Ave SE
Bellevue, WA 98005



Logistics: Arriving at Sammamish

100 140th Ave SE, Bellevue, WA 98005



Logistics: Parking

Parking in school lots OK.

There is no really good bus parking. Your driver needs to make arrangements



Schedule Overview: Whole Event

Day 1:

- Load in and inspection

Day 2:

- Inspection,
- Driver & Coaches Meeting will be at 8:30 am **This is a change! Keep in mind inspection AND judging is also happening at this time so plan accordingly.**
- Practice matches
- Qualification Matches

Day 3 AM:

- Qualification Matches

Day 3 PM:

- Final Rounds / Team Departures

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Geek Hero Education

Team #	Team Name	School/Organization	City	State
1	360	The Revolution	Bellarmine Prep. School	Tacoma WA
2	488	Team XBOT	Family/Community	Seattle WA
3	492	Titan Robotics Club	International School	Bellevue WA
4	948	NRG	Newport High School	Bellevue WA
5	949	Wolverine Robotics	Bellevue High School	Bellevue WA
6	1294	Pack of Parts	Redmond HS, Eastlake HS, Tesla STEM HS	Sammamish WA
7	1318	Issaquah Robot. Soc.	Issaquah HS	Issaquah WA
8	1595	The Dragons	St George's School	Spokane WA
9	1899	Saints Robotics	Interlake High School	Bellevue WA
10	1983	Skunk Works Robotics	4H	Seattle WA
11	2046	Bear Metal	Tahoma High School	Maple Valley WA
12	2412	Robototes	Sammamish HS	Bellevue WA
13	2928	Viking Robotics	Ballard High School	Seattle WA
14	2976	The Spartabots	Skyline High School	Sammamish WA
15	3070	Team Pronto 3070	Shorewood HS, Shoreline Robotics Society	Shoreline WA
16	3268	Valhallabots	Inglesmoor Senior HS	Kenmore WA
17	3574	HIGH TEKERZ	Highline HS, 4-H 3574 High Tekerz, Home Sch.	Renton WA
18	3681	Robo-Raiders	Nathan Hale HS	Seattle WA
19	4104	Cheney Circuit Cyclone	Cheney High School	Cheney WA
20	4131	Iron Patriots	Liberty High School	Renton WA
21	4173	IMVERT	Mt Vernon High School	Mount Vernon WA
22	4180	Iron Riders	Roosevelt High School	Seattle WA
23	4918	The Robotopi	Port Townsend HS	Port Townsend WA
24	4980	Canine Crusaders	Kettle Falls High School	Kettle Falls WA
25	5588	Reign Robotics	Holy Names Academy	Seattle WA
26	5827	Code Purple	Lake Washington HS	Kirkland WA
27	6076	ReVamp	Northport High School	Northport WA
28	7461	Sushi Squad	Team 7461 Robotics	Redmond WA
29	8051	TinkRex	Foster High School	Tukwila WA
30	8248	ChainLynx	Lincoln High School	Seattle WA
31	9023	Future Martians	Family/Community	Sammamish WA
32	9036	Ramen Robotics	Bellevue Big Picture Sch	Bellevue WA
33	9442	Miso Mechanics	Family/Community	Seattle WA
34	9450	Velocity Raptors	Woodinville High School	Woodinville WA

Map reference only, not drawn to scale

2024 PNW FIRST® ROBOTICS EVENT

SAMMAMISH DISTRICT



1318	1294	949	948	492	488	360
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1595	1899	1983	2046	2412
3574	3268	3070	2976	2928

3681	4104	4131	4173	4180
6076	5827	5588	4980	4918

7461	8051	8248	9023
9450	9442	9036	

PRACTICE FIELD

RESTROOMS



PIT ADMIN
CSA
INSPECTION
SPARE PARTS

Doors will open for load in at 5 pm Day 1

Follow instructions from onsite staff.

Remember, once the doors open to teams, you may no longer work on your robot at your shop. All teams should plan to load in Day 1. If for some reason you will not be loading in Day 1, you need to notify Adrienne Collins at acollins@firstwa.org

You may NOT park in the loading area. The driver MUST stay with the vehicle. Drop it and park in designated area. Staff your unload team appropriately to make this happen.

Bring a cart! You will need a cart with at least 3" diameter wheels. Our cable protection bumps are 2" in height. We recommend 4" or larger wheels.

Load in day is not final build day, your goal is to pass inspection Day 2 morning!

What you should bring to check in

Team Rosters with all your STIMS information to **EACH** of your events (including handwritten consent forms for anyone not listed on your TIMS roster) – The expectation is that your students/mentors have registered online, please only bring printed rosters for those who absolutely can't get registered online. (You can find a copy of the roster in both English and Spanish on our website here: <https://firstwa.org/resources/>)

All cords should be labeled with your team number on BOTH ends so we can figure out what plugs in where.

You **MUST BRING YOUR OWN SAFETY GLASSES**

- For your entire team, parents, mentors and **visitors**
- We will not have safety glasses on site for participants or spectators

Who to bring Day 1

You really want your core robot builders and mentors Day 1. **With the change in the drivers meeting, your drivers are no longer needed Day 1**

Depending on your teams logistics, you might consider having a partial team Day 1 and the whole team Day's 2 & 3.

Day 1 is NOT a good spectator day

- It is ALL in the pits Day 1.

Wheel requirements for carts, boxes, and anything rolling

Our venues will have power cord covers (aka Yellow Jackets)

- Our yellow jackets are 2" tall

Your FRC robot cart **MUST** have > 3" diameter wheels

- Wheels must be in good working order. No damaged or stuck wheels. Soft rubber. No hard plastic or steel tread wheels.
- Maximum weight for your carts, tool boxes, etc will be 50 lbs per inch of wheel size (1 cart, 4 x 3" wheels, 600lbs max)

Under no circumstances will we allow wheels less than 3" in diameter on ANY equipment / boxes / carts

- Very high likelihood of damage to floors
- You won't clear our cable management equipment

All wheels must be non marking rubber or synthetic wheels

- No steel wheels. No sharp wheels.

Day 1: Inspection Process: 5PM

Inspection involves 4 steps

- Size and weigh-in at the inspection station
- Control system inspection at the CSA station
- Physical robot inspection at your pit starting 5PM
- Connection to the field controller at least once by Day 2 morning
 - Our goal is for you to be able to connect Day 1 night if you are ready.

Inspectors are your friend! Inspectors are here to help get you on the field safely and fairly. They will help you pass inspection.

Starting the inspection process

You may enter the weight / size line at any time after 5PM Day 1.

After weight and size, stop at the CSA desk for the control software check.

You may sign up at the Inspection desk for an in-pit inspection appointment starting at 5 PM. We invite you to sign up early.

It is rare for a robot to pass inspection on the first attempt. It is an iterative process.

PLEASE: Get inspected early, even if you are not ready. You might have an issue that takes time to fix.

All teams must connect to field as part of inspection.

You **MUST** pass inspection to earn qualifying points.

Bring Spare Parts

Please consider bringing unused sensors, motors, control units, and hardware for loan to other teams.

Because this is week 1, many teams may not quite be done with their robot. Please look around and if you see a team in need, take time to help get their robot ready to compete!

Pit power is limited. We are putting up to 6 teams on a single 20 amp circuit

- Charge your batteries overnight at home / hotel
 - (Remember: 12 rounds may require several batteries)
- No compressors or other large motors
- Limit 400 watts per team, 2400 watts per 6 team Power Alliance
- Lighting should go with low wattage

High school gyms have very little power

- You may NOT use any outlets in the gym
- The game equipment uses all available power
- We will remove and confiscate any equipment from gym outlets until after awards ceremony on Saturday. **You have been warned!**

End of Day 1

The pits close at 8:00PM on Day 1.

You **MUST BE OUT OF THE BUILDING** before 8:00PM.

We dislike doing it, but we will come lead you out of the building starting at 7:55PM. No exceptions.

Arrival & Parking Day 2

Please arrive after 8:00 am

Please do not arrive before 8:00 am!

Please do not show up early!

- The doors may be open, please don't come inside until 8:00 am
- If you show up early, expect to wait outside the building even if the weather is bad

Day 2 morning is for Inspections

Your primary goal for Day 2 morning is to get your robot to pass inspection.

This is a short and intense activity. Preparation is the key to making it a good day.

Asking for help is a good thing. Providing another team help is the highest honor in *FIRST*. Don't be bashful.

Teams with lower numbers have experience

WPA Key Assignment

Your robot radio (WPA Key) must be reprogrammed at each event you attend.

This is required to connect & compete at the field.

A kiosk (with instructions) is provided for you to program your radio.

- The kiosk will be located at inspection or pit admin

Drivers Meeting at 8:30 am Day 2

- The Drivers Meeting is scheduled for 8:30 pm Day 2
- From what we understand, as of right now Q & A will be handled a like last year
 - Pit Admin will have a paper Q & A forms
 - Team members can fill out the form with their questions and turn them in at Pit Admin
 - The deadline to turn in forms is **prior to pits closing Day 1**
 - Forms turned in on Day 2 may not be addressed at the drivers meeting
 - **Remember, judging and inspection are both happening during the morning as well. Make sure you have students in your pits.**

Practice Rounds: Day 2 morning

Practice matches are scheduled, and will run Day 2 according to the schedule the FTA's put together

You have to pass inspection to run a practice match.

It is very common for teams not to be ready for their scheduled match in the mornings. We will accept teams on a first come/first served basis who wish to take an unscheduled practice round. Check in with the Lead Queuer to get on the list.

Priority will always be given to teams scheduled and/or teams who have not been on the field at least once. Be gracious and professional if you get bumped for a higher priority team.

Connecting to the field: The Final Step

If you run a practice match during Day 2 morning, the field computer will remember that as your last step of the inspection process.

If you are unable to make a practice match, we are going to ask you to take your robot and control system out to the field for a quick 5 minute test to ensure your system can connect to the field. Your robot will not be on the field, we will simply connect it to the field while sitting on your cart.

THIS IS A MANDATORY STEP!

Many simple issues are solved by doing this that would otherwise cause you problems when it really counts!

Machine Shop Open: Day 2

We have a volunteer machine shop onsite to help you fabricate replacement parts.

The shop has small mills, lathes, and various other tools.

ONLY AUTHORIZED MACHINE SHOP VOLUNTEERS MAY USE THESE TOOLS!

We have excellent volunteer machinists. However, there are limits to what they can do for your team.

We **may** have a TIG welder

The machine shop has request forms for your team. It will be located near the loading ramp on the arena floor.

In general, the machine shop will NOT loan you tools.

Day 3: Load Out

No parking in load out area.

Load out during playoff rounds on Day 3 is fine

Reminder, if you have agreed to be a backup robot, you should wait to load out so you can be prepared to compete if needed.

Safety Glasses

Teams are expected to provide safety glasses for their team members and spectators to use in the pits

We will not be handing out any safety glasses out to teams at this event.

Team Volunteer Requirements

All teams will be required to help staff the safety glass table.

Though we will not be distributing safety glasses this year, we will need 2 people at a table outside the pits checking to be sure anyone entering the pits is wearing safety glasses. Please sign up for a slot when you check-in your team.

Other event volunteer opportunities include Practice Field staff, field reset, queueing, ambassadors.

Quiet Room, Menstrual Equity & Workshops

Menstrual Equity Host: 2412 will be the host for this event

Quiet Room Host: We have no quiet room host at this event

Workshops:

- LGBTQ+ of FIRST Meetup, hosted by 2412 & 8248
- Bellevue Alliance Workshop hosted by 492, 948, 949, 1899, 2412, 7461, 9036
- Women & Non-binary Individuals in STEAM hosted by 9036
- Sustainability Workshop hosted by 1899

Gender Neutral Bathrooms We do have Gender Neutral Bathrooms at this event, see Pit Admin for info.

Additional Activities:

- FLL Explore
- Unified Robotics
- GSEA Credit Union Table
- May have some VIP tours (google)
- We will have a mentor coffee at 7 am on Day 3

Mentor Coffee – New this year!

We are endeavoring to host a mentor coffee at our District events this season to celebrate all of you!

At Sammamish: Jason Onada will be hosting a mentor coffee at 7:00 am on Day 3

This is an opportunity for adult mentors to get together to chat, collaborate & socialize. We would love to see mentors from all teams in attendance at this event!

Note: Students will still not be allowed inside the building until 8:00 am Sunday. Please plan accordingly for your students.

Queueing App (Nexus)

We will be the queueing app at our events this year. We are hoping that it makes queueing easier both for teams and volunteers.

Note: **This does not replace the queueing volunteers. If a volunteer is asking you to queue, follow their direction please.**

With the queueing app, you will be able to:

- Set up notifications for up to people
- Set up notifications for 1 channel (slack or discord)
- Anyone can look on their phone to see who is being queued

Queueing App (Nexus)

You will receive a QR code in your check in packet that will help you set up the team members to be notified.

Note: This is not an official FIRST app and we do not guarantee that it is accurate but hope as our queueing team gets comfortable with the app, it will be a helpful tool to teams. If a queuer comes to get you in your pit, please follow their instructions.

Our events will all culminate in playoff rounds where the top 8 teams select 2 alliance partners. 24 teams will compete in the playoff rounds.

If you are not chosen for an alliance, please stick around in the “alliance selection area” for a few moments. A referee will be coming around with a form asking if you can/will stay to be a back up.

- Please be prepared to answer this question in the event you are not picked for an alliance
- IF you sign the form stating you will stay you need to commit to staying. If you leave, you may be depriving one of the competing teams of a 3rd alliance partner in the event they need a back up. If you are gone, they will **NOT** go to the next team in line.
- Be sure you understand your ranking at the end of alliance selection and are prepared to compete!
- This season, the back up rules have changed. Make sure you understand what the rules are prior to your event.

Will be able to pre-order pizza. Forms are due by noon on Thursday, March 21.

<https://sites.google.com/view/sammamish-robotics-booster/pizza-orders>

There will be concessions in the gym area

There will be food trucks at this event:

- [the Corndoggery](#) Saturday & Sunday
- [Taco Cortes](#) Saturday only

Bringing Food?

- Yes, you may bring food into this venue
- You will need to pack up your eating area every night when you leave. **Please don't leave your food tables set up overnight!**

Clean up after yourself

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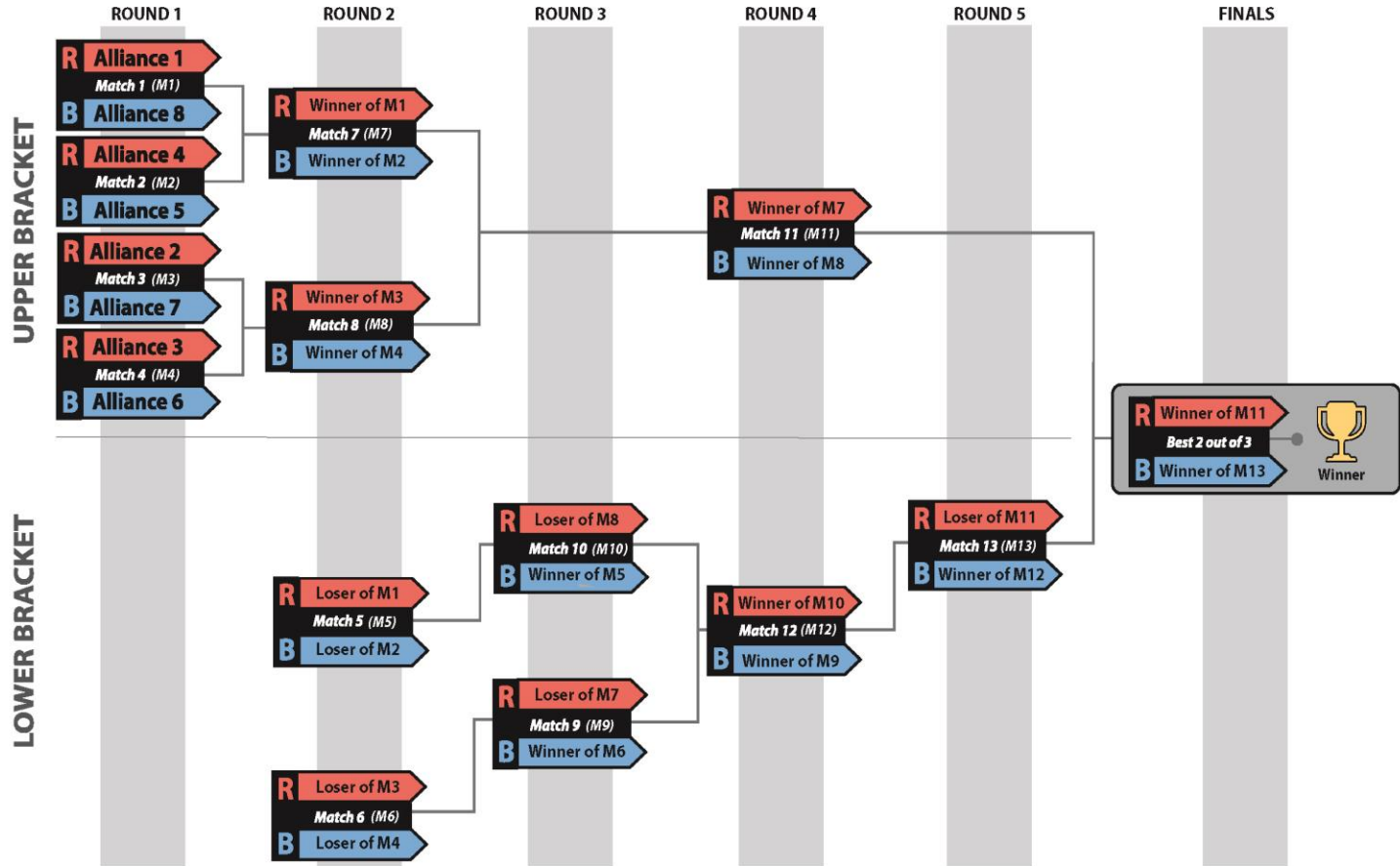


PRESENTED BY Raytheon Technologies



PRESENTED BY AAS

Double Elimination Bracket



Round	MATCH	Upper/ Lower	Gap (min)				Next MATCH (MATCH # (ALLIANCE color))		
			Blue	Red	Blue	Red	Winner	Loser	
1	1	Upper	8	1			M7 (R)	M5 (R)	
	2	Upper	5	4			M7 (B)	M5 (B)	
	3	Upper	7	2			M8 (R)	M6 (R)	
	4	Upper	6	3			M8 (B)	M6 (B)	
2	5	Lower	L2	L1	0:24	0:33	M10 (B)		
	6	Lower	L4	L3	0:15	0:24	M9 (B)		
	7	Upper	W2	W1	0:42	0:51	M11 (R)		M9 (R)
	8	Upper	W4	W3	0:33	0:42	M11 (B)		M10 (R)
3	9	Lower	W6	L7	0:24	0:15	M12 (B)		
	10	Lower	W5	L8	0:42	0:15	M12 (R)		
6-minute break									
4	11	Upper	W8	W7	0:27	0:36	M14 (R)	M13 (R)	
	12	Lower	W9	W10	0:27	0:18	M13 (B)		
15-minute awards break: Imagery, Gracious Professionalism, Team Spirit, and Rookie Inspiration									
5	13	Lower	W12	L11	0:18	0:27	M14 (B)		
15-minute awards break: Autonomous, Creativity, Quality, and Industrial Design									
Finals	14		W13	W11	0:18	0:48	M15	M15	
15-minute awards break: Innovation in Control, Excellence in Engineering, Team Sustainability, Judges									
Finals	15		W13	W11	0:18	0:18	M16*	M16*	
15-minute awards break: Rookie All Star, Dean's List, Engineering Inspiration**									
Finals	16*		W13	W11	0:18	0:18			
Awards: Remaining awards, Finalists, Winners, and FIRST Impact Award									

During the quarter & semi final rounds

- There is a upper bracket and a lower bracket so you will not play the same team in every match
- You are still out after 2 losses
- There no more time outs
- There is only one 6 minute break prior to the awards breaks
- Match cycle times will be slower than the qualification rounds

During the finals rounds

- This round is the best 2 out of 3 (Does not matter if you have a loss from the quarter or semi final rounds)
- There are 15 minute breaks between each round
- We will hand out awards during the 15 minute breaks
 - There may be times when the awards take longer than 15 minutes, however, **the expectation is that your team will be prepared to take the field at the end of 15 minutes.**

Thanks for viewing

You can contact acollins@firstwa.org with additional questions

These slides will be posted on the event page on firstwa.org