

# FIRST IN SHOW<sup>SM</sup>

PRESENTED BY Qualcomm

Wilsonville District Site Specific  
Information March 6, 2024

# FIRST IN SHOW

PRESENTED BY Qualcomm

## MASTER PIECE

## CENTERSTAGE

PRESENTED BY Raytheon Technologies

## CRESCENDO

PRESENTED BY AAS

## Competition schedule



### Wilsonville District Event Schedule March 21 – March 23

#### Competition Schedule

Competition Schedule	
<b>March 21</b>	
5:00PM-8:00 PM	Pits Open
<b>March 22</b>	
8:15AM-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
<b>March 23</b>	
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.*

# FIRST IN SHOW

PRESENTED BY Qualcomm

# MASTER PIECE

# CENTERSTAGE

PRESENTED BY Raytheon Technologies

# CRESCENDO

PRESENTED BY AAAS

## Activity Schedule



### Wilsonville District Activity Schedule Mar 22-23, 2024

#### Activity Schedule

Activity Schedule	
<b>March 29</b>	
	Menstrual Equity hosted by 997
12:30 PM	Quiet Room hosted by: No quiet room available, but cafeteria will be open to those who need to get away from the noise
1:00 PM/beginning of lunch	Sr Photo on the competition Field
End of match play	Alum Photo on the competition field
<b>March 30</b>	
	Menstrual Equity hosted by 997
7:00 AM	Mentor Coffee, (See Pit Admin for room)
See Schedule on door	Quiet Room hosted by: No quiet room available, but cafeteria will be open to those who need to get away from the noise
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 Thursday, Friday, Saturday event

Day 1 is Thursday

Day 2 is Friday

Day 3 is Saturday

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)

# Wilsonville



# FIRST IN SHOW

PRESENTED BY Qualcomm

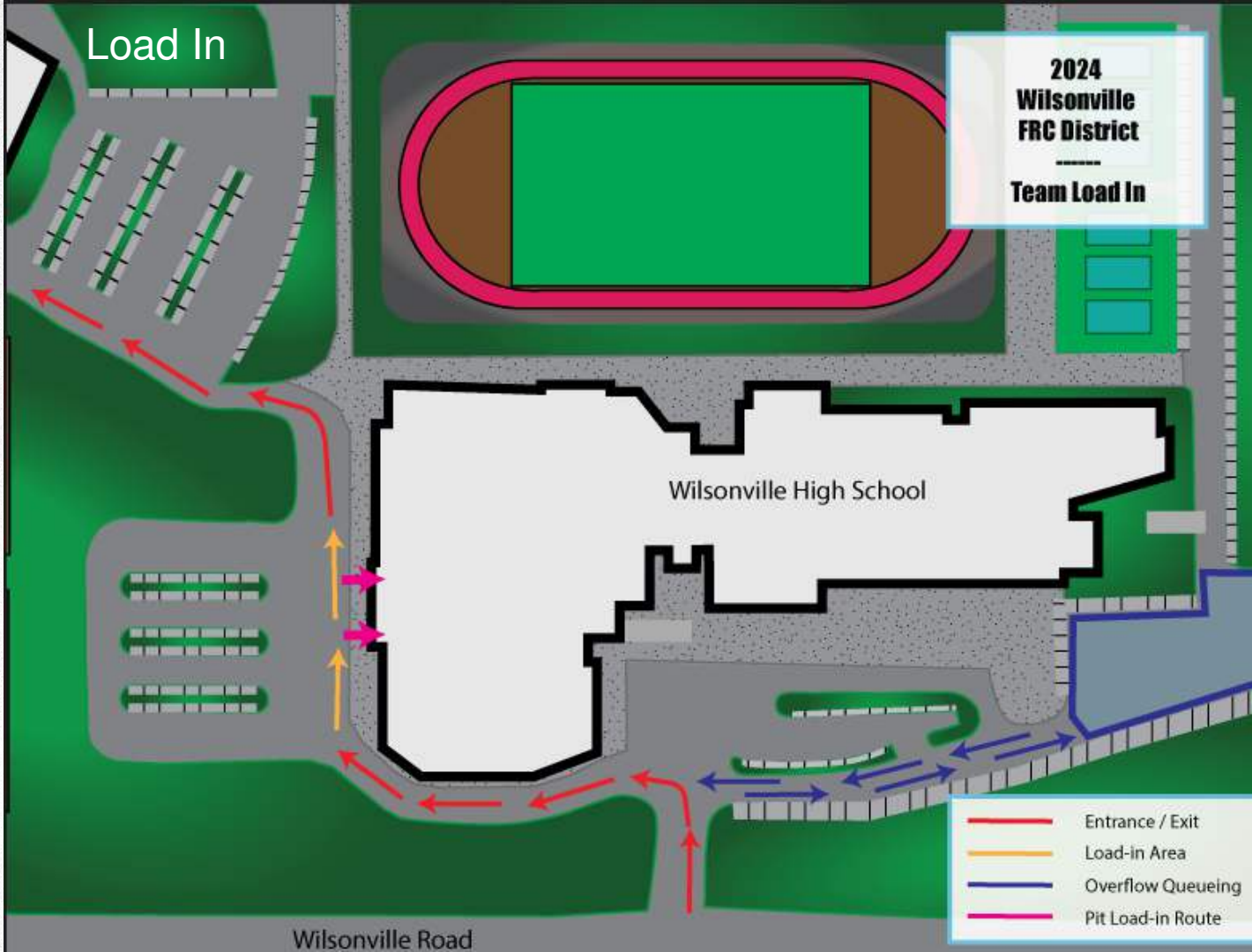
# MASTER PIECE

# CENTERSTAGE

PRESENTED BY Raytheon Technologies

# CRESCENDO

PRESENTED BY HMAS



**FIRST IN SHOW**

PRESENTED BY Qualcomm

**MASTER  
PIECE**

**CENTERSTAGE**

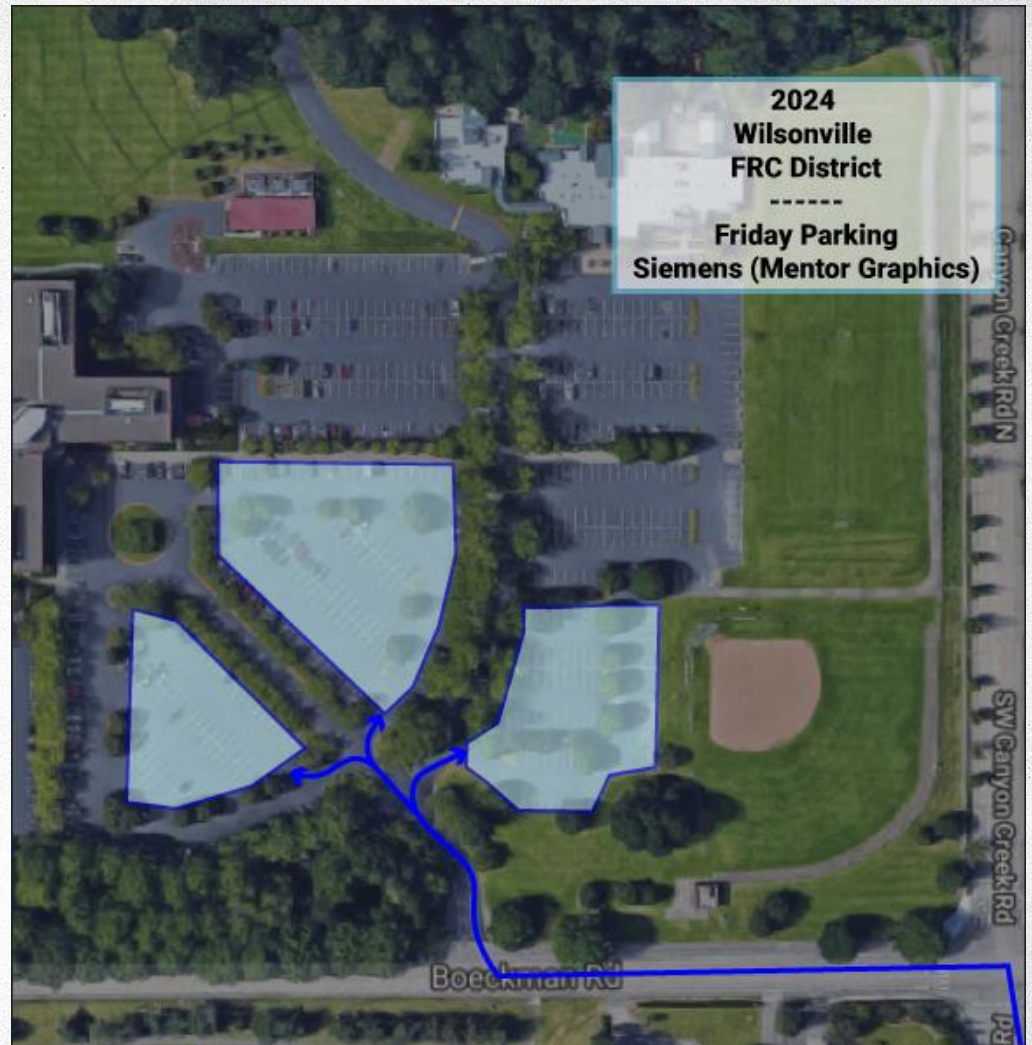
PRESENTED BY Raytheon Technologies

**CRESCENDO**

PRESENTED BY HIAS

## Friday Parking

Shuttle schedule will be posted prior to the event and will be similar to prior years





**FIRST IN SHOW**

PRESENTED BY **Qualcomm**

**MASTER  
PIECE**

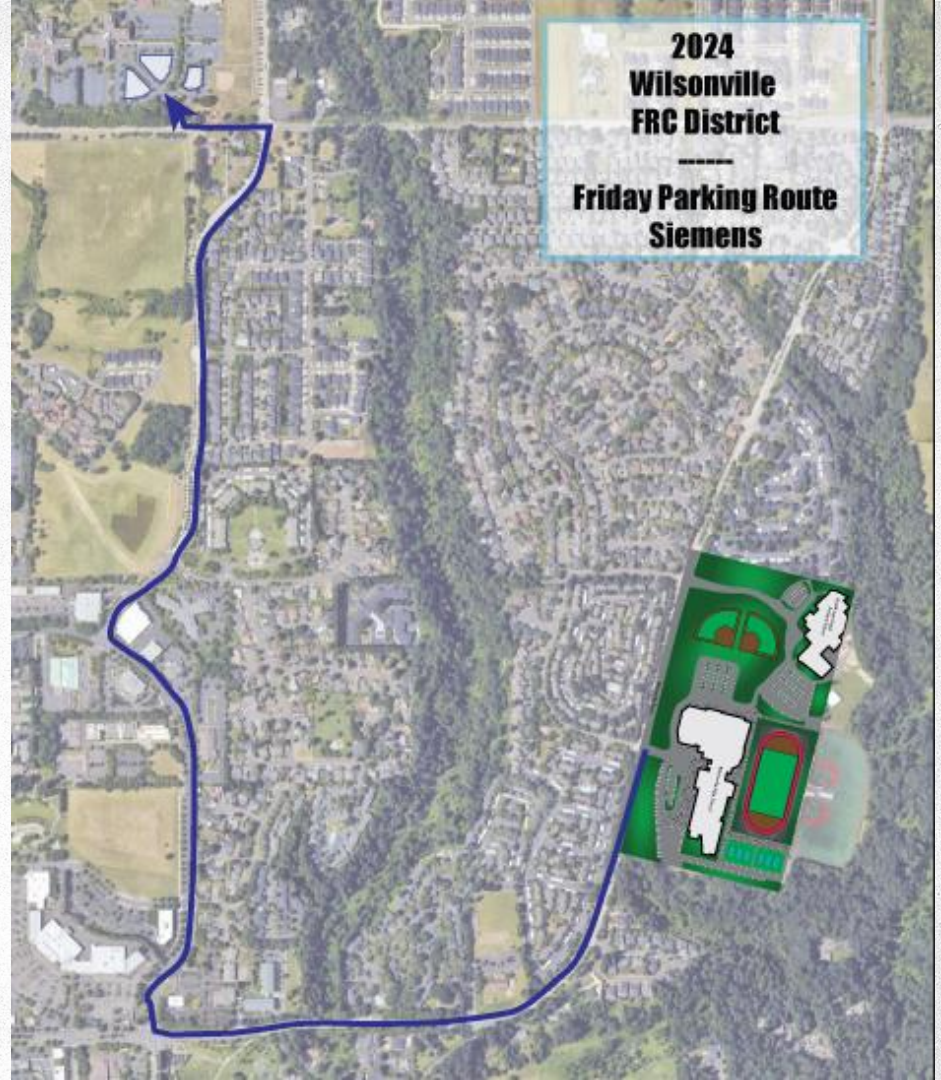
**CENTERSTAGE**

PRESENTED BY **Roytheon  
Technologies**

**CRESCENDO**

PRESENTED BY **HAAS**

Friday Parking  
route to  
Siemens  
(Mentor  
Graphics)

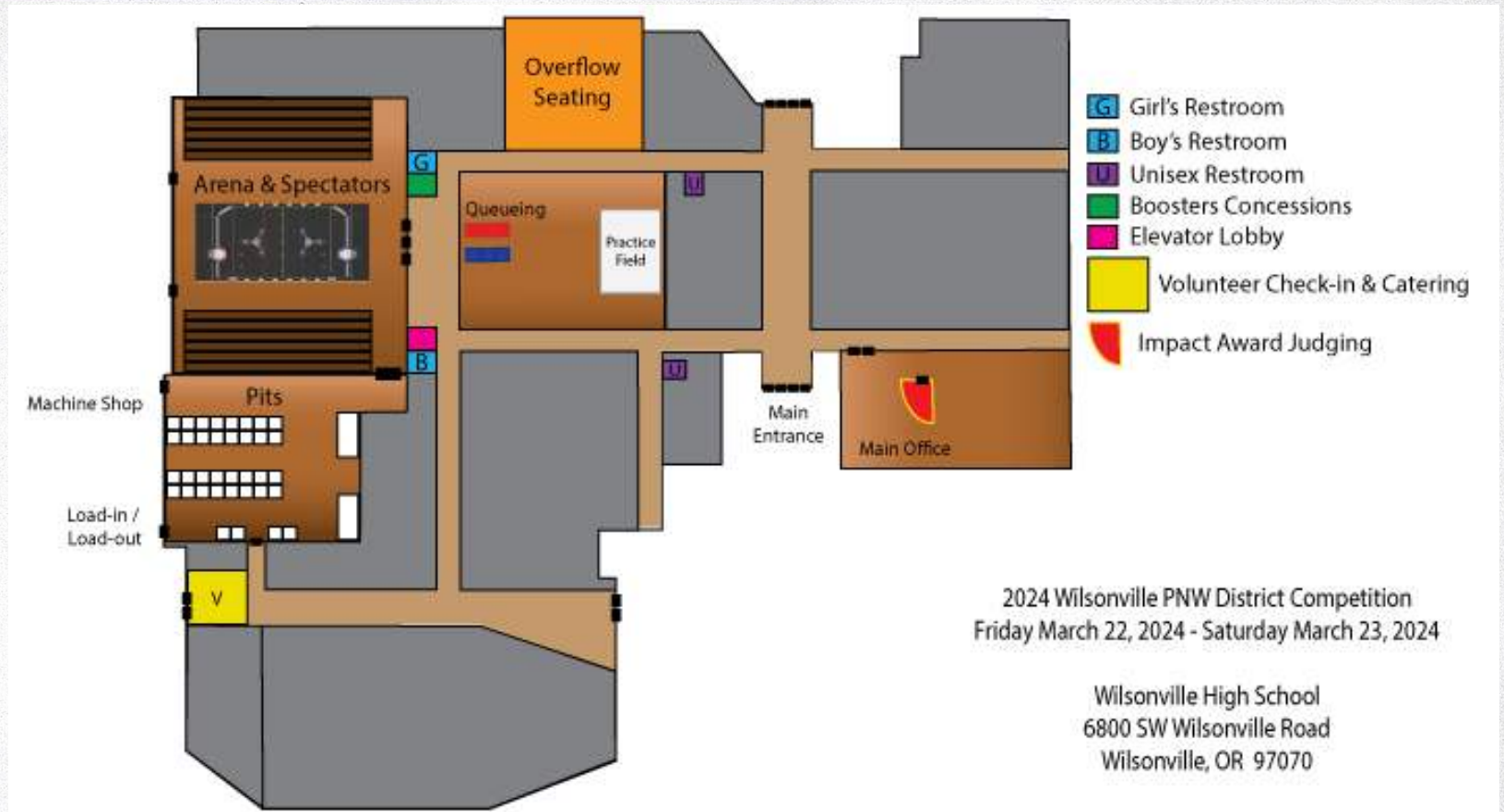


# Logistics: Bus Transportation

There isn't a great spot to park a bus

Your driver will have to make alternate arrangements

# Wilsonville school layout



# 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

# FIRST IN SHOW

PRESENTED BY Qualcomm

# MASTER PIECE

# MAIN STAGE

PRESENTED BY Raytheon Technologies

# CRESCENDO

PRESENTED BY IMA5

# CRESCENDO

PRESENTED BY IMA5

# 2024 PNW FIRST® ROBOTICS EVENT WILSONVILLE DISTRICT



Map reference only, not drawn to scale

Team #	Team Name	School/Organization	City	State	Team #	Team Name	School/Organization	City	State
1	753	Mountain View Sr HS	Bend	OR	19	4060	Bearcat Robotics	W F West High School	Chehalis WA
2	957	SWARM	W. Albany HS, S. Albany HS	Albany OR	20	4127	LoggerBots	Vernonia HS, Vernonia MS	Vernonia OR
3	997	Spartan Robotics	Corvallis High School	Corvallis OR	21	4488	Shockwave	Glencoe High School	Hillsboro OR
4	1425	Error Code Xero	Wilsonville High School	Wilsonville OR	22	4662	Byte Sized Robotics	Scappoose MS, Scappoose HS	Scappoose OR
5	1540	Flaming Chickens	Catlin Gabel School	Portland OR	23	4692	Metal Mallards	Toutle Lake School	Toutle WA
6	2374	Jesuit Robotics	Jesuit High School	Portland OR	24	5295	Aldermating Current	Shelton HS, Oakland Bay Junior HS	Shelton WA
7	2471	Team Mean Machine	Camas HS, Hockinson HS, Washougal HS, Discovery HS	Camas WA	25	5970	Beavertronics	Beaverton High School	Beaverton OR
8	2521	SERT	South Eugene High School	Eugene OR	26	5975	Beta Blues	St Mary's Academy	Portland OR
9	2550	Skynet	Clackamas Acad. of Ind. Science	Oregon City OR	27	6343	Steel Ridge Robotics	Ridgefield High School	Ridgefield WA
10	2635	Lake Monsters	Lake Oswego HS, Lakeridge HS	Lake Oswego OR	28	6443	AEMBOT	Liberty High School	Hillsboro OR
11	2733	Pigmic	Cleveland High School	Portland OR	29	6465	Mystic Biscuit	Cascades Academy	Bend OR
12	2811	StormBots	Skyview High School	Vancouver WA	30	6696	Cardinal Dynamics	Corbett High School	Corbett OR
13	2898	Flying Hedgehogs	Family/Community	Portland OR	31	6845	River Bots	Astoria High School	Astoria OR
14	2990	Hotwire	Hotwire Robotics	Turner OR	32	7034	2B Determined	West Linn High School	West Linn OR
15	3024	My Favorite Team	Ashland High School	Ashland OR	33	9430	CTEC Robotics	Career Technical Education Ctr	Salem OR
16	3636	Generals	Grant High School	Portland OR	34	9567	Storm Breakers	Skyview High School	Vancouver WA
17	3673	C.Y.B.O.R.G. Seagulls	Seaside High School	Seaside OR	35	9600	X-Flare Robotics	Elkton High School	Elkton OR
18	4043	NerdHerd	Family/Community	Lafayette OR	36	9680	SIA Phoenix Rising	Spokane International Academy	Spokane WA

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](mailto: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

All team members, students and mentors, will be wearing wrist bands to identify them as FIRST participants. Please insure that everyone who is allowed into your pit area is wearing this band.

With school remodel, it will be important that you wear these this year!



# 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 8:15 am

Please do not arrive before 8:15 am!

School is in session, you will create a traffic problem if you arrive early!

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:** 997 will be the host for this event

**Quiet Room Host:** We have no quiet room space at this event BUT the cafeteria will be open both Friday afternoon and all day Saturday. A projector will be set up and it will be a space away from the noise

**Gender Neutral Bathrooms** We do have Gender Neutral Bathrooms at this event, see the map of the school layout (earlier in the presentation) or Pit Admin for info.

**Workshops:** There will be no workshops at this event

**Additional Activities:**

- 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 Wilsonville: Tim Bennington-Davis will be hosting a mentor coffee at 7:00 am on Day 3. He will bring the donuts and mentors can byoc (bring your own coffee!)

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 3<sup>rd</sup> 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.

Pre-order lunch option available: Form is pictured on slide following this one and posted on the event page. **Orders are due Monday, March 18**

There will be concessions outside the gym area

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



FIRST IN SHOW

PRESENTED BY Qualcomm



CENTERSTAGE

PRESENTED BY Roytheon Technologies

CRESCENDO

PRESENTED BY AAAS

Pre-order  
lunch form

Due Monday,  
March 18.

Copy also  
posted on the  
website



## PNW District Robotics Tournament Meal Pre-Order Form

The Wilsonville High School Boosters is proud to support competing teams in the PNW District Tournament by offering concession services throughout the event. Candy, snack foods, Coca Cola brand beverages, water, and meal items including hot dogs and pizza will be available for purchase during the event.

Team PRE-ORDER meal options are available for Friday lunch, Friday dinner, and Saturday lunch. Pre-ordering is strongly encouraged. Single order meal items will be available while supplies last.

### FRIDAY LUNCH (closed 11:30-12:10 to observe school lunch)

Meal Option	Per Unit Price	Quantity	Total Price
Whole cheese pizza (available at 12:45)	\$20.00		
Whole pepperoni pizza (available at 12:45)	\$20.00		
FRIDAY Lunch Total Purchase			\$

### FRIDAY DINNER

Meal Option	Per Unit Price	Quantity	Total Price
Whole cheese pizza (available at 5:00)	\$20.00		
Whole pepperoni pizza (available at 5:00)	\$20.00		
FRIDAY Dinner Total Purchase			\$

### SATURDAY LUNCH

Meal Option	Per Unit Price	Quantity	Total Price
Whole cheese pizza (available at 11:00)	\$20.00		
Whole pepperoni pizza (available at 11:00)	\$20.00		
SATURDAY Lunch Total Purchase			\$

Name of individual placing order: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

School & Team Name: \_\_\_\_\_

Teams should complete the above order and email to: [WilsonvilleHighSchoolBoosters@gmail.com](mailto:WilsonvilleHighSchoolBoosters@gmail.com). The deadline for pre-order is Monday, March 18th. Payment for pre-orders will be collected onsite Friday 8:00 – 11:00. Single payments for a group order are preferred and can be made using cash, check or credit card.

# FIRST IN SHOW

PRESENTED BY Qualcomm

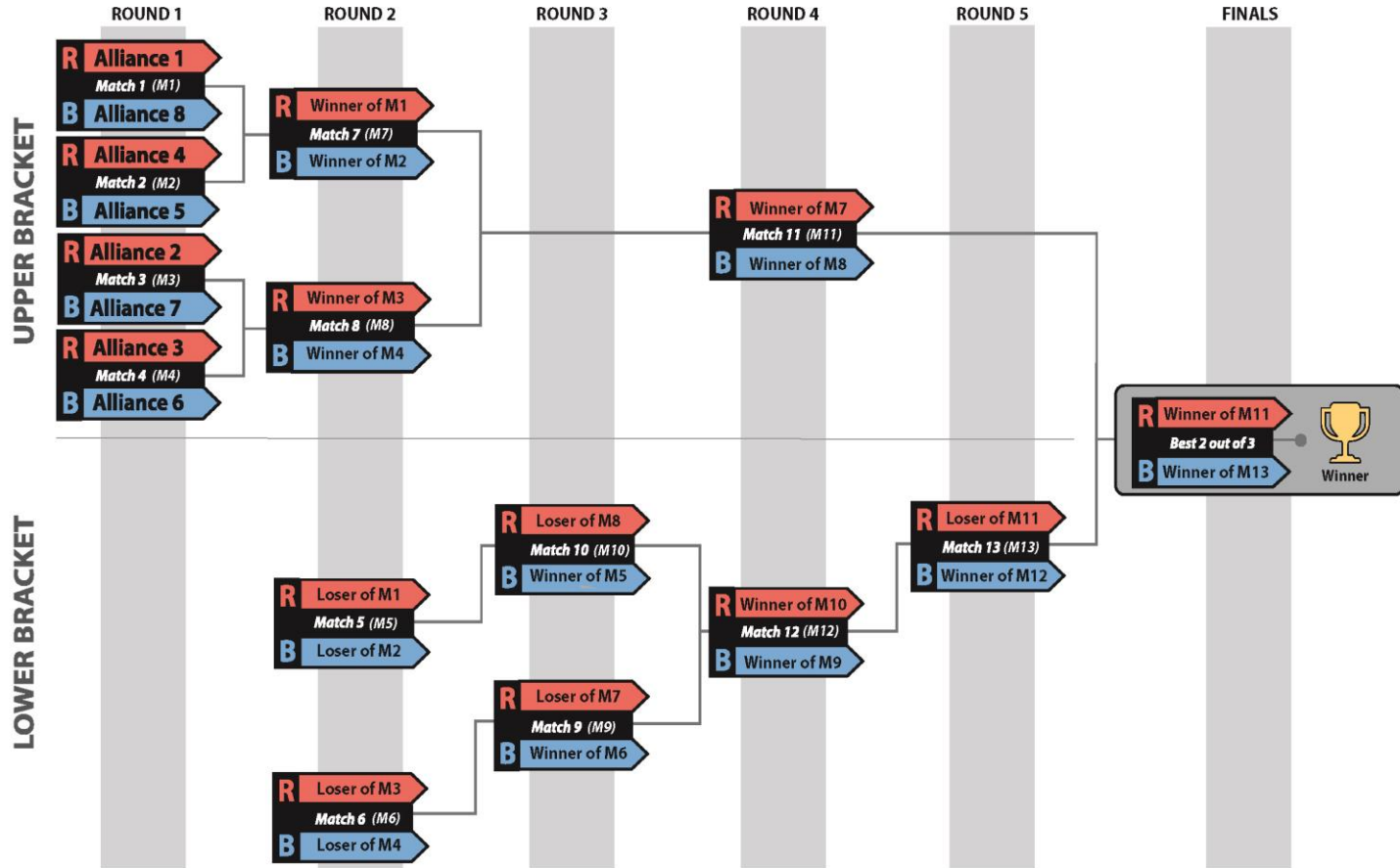


PRESENTED BY Raytheon Technologies



PRESENTED BY AAAS

## 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](mailto:acollins@firstwa.org) with additional questions

These slides will be posted on the event page on [firstwa.org](http://firstwa.org)