

## **ROBOTICS STATE TOURNAMENT**

**Sponsored by FIRST and Presenting Partner-MSHSL**

### **Season Begins:**

The season shall correspond with all dates and guidelines outlined by the FIRST Robotics Competition.

### **Contest:**

Each MN FIRST robotics team will be eligible to participate in the MSHSL/FIRST State Championship held on May 17<sup>th</sup>, 2014 at Williams Arena on the U of MN Twin Cities campus. Teams will qualify for the event based on their performance at their initial FIRST Regional competition regardless of the location.

### **Robot Requirements:**

Teams will follow all the rules and guidelines of the FIRST Robotics Competition. Each robot must pass inspection to be allowed into the competition. Teams qualifying for the MSHSL/FIRST sponsored State Tournament will be allowed 6 hours of access time with a minimum of 30 min increments and a maximum 3 unbag access periods between their last competition and the MSHSL/FIRST state event. This is patterned after the new District event guidelines (Admin Manual Section 5.6.2 update). The State Championship is a bag and tag event. Teams will document their work time as per FIRST rules for bag and tag events. Teams arriving without proper documentation or an unbagged robot can be disqualified at the discretion of the Lead Robot Inspector.

### **Team Membership:**

All students eligible for membership on a FIRST Robotics team will be eligible for the State Championship. Students must be in Good Standing as defined by MSHSL rules to participate. Exception: No students in grade 6 or under will be eligible.

### **MSHSL Eligibility Information Brochure:**

Prior to participation in the state co-sponsored event, the student and one parent or guardian must sign and return one copy of the Eligibility Information Brochure to the student's school or the lead team mentor. The student and parent or guardian signature will certify they have read, understand, and agree to abide by the information provided.

### **State Competition Qualification:**

Teams qualify based on their performance point total at their initial FIRST Regional competition. Qualifying points are based on the District Model except points are applied from only one regional event

([http://www.usfirst.org/sites/default/files/uploadedFiles/Robotics\\_Programs/FRC/Resources/FRC\\_District\\_Standard\\_Points\\_Ranking\\_System\\_r1.pdf](http://www.usfirst.org/sites/default/files/uploadedFiles/Robotics_Programs/FRC/Resources/FRC_District_Standard_Points_Ranking_System_r1.pdf)). The exception to these point valuations is for a Chairman's Award submission. By submitting at any Regional competition, the team will be awarded 10 points. If teams present for Chairman's at multiple events, they will only receive 10 points. A team winning a Chairman's Award at any Regional competition automatically goes to the State Championship. A total of 30 teams will qualify for the tournament. Given that teams play at many different events on different weeks, invitation to the State Champion will be after the FIRST Regional events have concluded. Many of the point entries are manual operations and, consequently, errors may occur in point totals. Every effort will be made to correct any unintended errors.

Qualifying Entry:

POINT CATEGORY	POINTS
<b>Win-Loss Record in Qualifying Rounds</b>	
Win	2
Tie	1
<b>Final Alliance Captains After Picking</b>	
#1 Alliance Captain	16
#2 Alliance Captain	15
#3 down to #8 Alliance Captain	14 down to 9
<b>Draft Order by Acceptance</b>	
#1 Draft Pick (Accepted)	16
#2 Draft Pick (Accepted)	15
#3 down to #16 Draft Pick	14 down to 1
<b>Elimination Round Performance</b>	
Teams on Alliances winning a particular playoff series [e.g.: An Alliance winning a particular Quarter Final best two of three match series]	5 points for every match won in which a Team's robot participated, only for the Alliance that wins the series
<b>Awards</b>	
Chairman's Award Submission (any regional event)	10 (awarded only once)
Engineering Inspiration	8
Rookie All-Star	8
All other judged awards	5
<b>Team Age</b>	
Rookie Teams	10
2 <sup>nd</sup> year Team	5

## Tiebreaker

If any teams have the same number of points, the following hierarchy of tiebreakers will be used to break the tie:

1<sup>st</sup> Order Sort: Total Elimination Round Performance Points

2<sup>nd</sup> Order Sort: Best Elimination Round Finish

3<sup>rd</sup> Order Sort: Total Alliance Selection Results Points

4<sup>th</sup> Order Sort: Highest Qualification Round Seed or Draft Order Acceptance

5<sup>th</sup> Order Sort: Total Qualification Round Win-Loss-Tie Points

- 6<sup>th</sup> Order Sort: Total Number of Match Wins
- 7<sup>th</sup> Order Sort: Highest Individual Match Score
- 8<sup>th</sup> Order Sort: Second Highest Individual Match Score
- 9<sup>th</sup> Order Sort: Third Highest Individual Match Score
- 10<sup>th</sup> Order Sort: Random Selection

#### Alternate Teams:

If, prior to the competition, any team is unable to participate, an alternate will replace that team. Teams must accept their invitation to the MSHSL Championship event two weeks prior to the event (May 13<sup>th</sup>). If a qualifying team declines an invitation, the next highest qualifying team will be selected from the list of eligible teams. Alternate teams will have 48 hours to respond to an invitation.

#### Event Time Schedule:

##### Friday Night

Load-in, pit set-up, registration, robot inspection, and robot-field radio connection  
6:00pm – 9:00pm

##### Saturday

Pits open - 7:30am

Opening Ceremonies - 8:45am

Preliminary Rounds: 9:00am-1:00pm

A random draw will determine alliance team composition for preliminary rounds. The number of preliminary matches for a 30-team field will be based on approximately 4 hours of play.

Alliance Selection: 1:00pm-1:15pm

The top four teams will be selected based on qualification score and sort order during the preliminary rounds (FRC Game Manual Section 5.3.4). The top four (4) teams will select alliance partners for the finals.

Lunch Break: 1:15pm – 2:00pm

Elimination round: 2:00pm until completion with awards following immediately

Elimination round will consist of semi-finals and finals. Play will be 2 out of 3 with a minimum of 5 minutes between rounds. The top (first) team listed in the bracket will be the red alliance.

Semi-Finals: 2:00pm

Alliance #1 vs Alliance #4

Alliance #2 vs Alliance #3

Third Place:

Loser #1 vs. #4 against Loser #2 vs. #3

Finals

Winner #1 vs. #4 against Winner #2 vs. #3

#### General Conduct:

Competing teams will exhibit the qualities of Gracious Professionalism and compete in the spirit of “Coopertition”.

**Disputes:**

Any disputes arising during the competition shall be reported to the Head Referee and Tournament Director for resolution.

**Awards:**

Trophies: Awarded to the three teams in the first, second, and third place alliances.

Medals: Awarded to the members of the three teams in the championship, first, second, and third place alliances. (25 medals per team). Additional medals can be purchased after the event.

Certificate of Participation: Given to each team qualifying for the state tournament (25 per team). Additional certificates can be purchased after the event.