2025-2026 *FIRST*® Tech Challenge

Competition Manual

DECODE™ Presented by RTX

FIRST TECH CHALLENGE

Contents

1 Introduction 7
1.1 About *FIRST*® 7
1.2 *FIRST*® Tech Challenge 7
1.3 *FIRST* Ethos and Core Values 8
1.3.1 Core Values 8
1.3.2 Gracious Professionalism®, a *FIRST* Credo 8
1.3.3 Coopertition® 9
1.4 Spirit of Volunteering 9
1.5 Accessibility and Inclusion 10
1.6 This Document & Its Conventions 10
1.7 Translations & Other Versions 12
1.8 Team Updates 12
1.9 Question and Answer System 12
2 *FIRST* Season Overview 15
3 Competition Eligibility and Inspection (I) 17
3.1 Team Eligibility Rules 17
3.2 Awards Eligibility Rules 19
3.3 MATCH Eligibility Rules 19
4 Advancement 23
4.1 Advancement Points Calculation 24
4.1.1 Qualification Phase Performance 26
4.1.2 ALLIANCE Selection Results 27
4.1.3 Playoff Performance 27
4.1.4 Team Judged Awards 27
4.2 Advancement Distribution by Region 28
5 Event Rules (E) 31
5.1 General Rules 31
5.2 Machine Shops and Host Team Build Spaces 36
5.3 Wireless Rules 36
5.4 Load-In 36
5.5 Pits 36
5.6 ROBOT Carts 39
5.7 Ceremonies 39
5.8 In the Stands 41
6 Awards (A) 43
6.1 Team Judged Awards Overview and Schedule 43
6.1.1 Sources of Information Considered for Awards 44

6.1.2 Structured Interview 45
6.1.3 Pit Interview(s) 46
6.1.4 Sustained Outreach and Demonstrating Impact by Numbers 46
6.2 Team Judged Award Rules 46
6.3 Team Judged Award Descriptions 51
6.3.1 Inspire Award 51
6.3.2 Think Award 52
6.3.3 Connect Award 52
6.3.4 Reach Award 53
6.3.5 Sustain Award 53
6.3.6 Innovate Award sponsored by RTX 54
6.3.7 Control Award 54
6.3.8 Design Award 55
6.3.9 Judges' Choice Award 55
6.4 Tournament ALLIANCE Awards 55
6.4.1 Winning Alliance Award 55
6.4.2 Finalist Alliance Award 55
6.5 Individual Awards 55
6.5.1 Dean's List Award 56
6.5.2 Compass Award 56
6.6 Project-Based Global Awards 57
6.6.1 Digital Animation Award sponsored by Worcester Polytechnic Institute (WPI) 57
6.6.2 Safety Animation Award sponsored by UL Solutions 57
7 Game Sponsor Recognition 59
8 Game Overview 60
9 ARENA 61
9.1 Dimensions and Accuracy 61
9.2 FIELD 62
9.3 Areas, Zones, & Markings 63
9.4 TILE Coordinates 65
9.5 ALLIANCE AREA 66
9.6 OBELISK 67
9.7 GOAL 68
9.8 CLASSIFIER 70
9.8.1 SQUARE 71
9.8.2 RAMP 71
9.8.3 GATE 74
9.9 SCORING ELEMENTS 75
9.10 AprilTags 75
9.11 FIELD STAFF 77
9.12 Event Management System 79