

RobotChallenge Shanghai: Event Selection & Teacher Training Guide

1. RobotChallenge Traditional Events

Event ID & Name	Type	Difficulty	Equipment Requirements	Teacher Training Arrangements
RC-001: Lego Sumo	Auto	Moderate	Official Lego series	Provides rules training, basic Lego solutions, onsite demos, and curriculum framework.
RC-002: Mini Sumo / Remote Mini Sumo	Auto / Remote	High	Currently confirming high cost-effective equipment	Rules and curriculum training will be synchronized with equipment procurement.
RC-003: Robot Rugby	Remote	Moderate	Lego, VEX IQ (for Junior Group)	Rules training, Lego solution demos, and curriculum frameworks.
RC-004: Lego Line Follower	Auto	Moderate	Official Lego series	Rules training, basic Lego solutions, onsite demos, and curriculum framework.
RC-005: Drone Soccer (Jr/Sr)	Remote	Low	3drones/team (~600-700 RMB each, incl. accessories).	If selected, senior drone instructors will be arranged for teacher training in Shanghai.
RC-006: Robot Bowling (Jr/Sr)	Auto	Low	Lego, VEX IQ, or other robotics kits	Lego-centric training covering rules, basic solutions, and curriculum frameworks.
RC-007: RoboGolf (Jr/Sr)	Auto	Moderate	Lego, VEX IQ, or other robotics kits	Lego-centric training covering rules, basic solutions, and curriculum frameworks.

Event ID & Name	Type	Difficulty	Equipment Requirements	Teacher Training Arrangements
RC-008: Push Shooting (Jr/Sr)	Auto	Low	RC officially sponsored kits (refer to rules)	Target guidance based on official competition rules.
RC-009: Ring Master (Jr/Sr)	Remote	Moderate	VEX IQ, or committee-sourced Thai kits (price TBD). New for 2026	Rules training, basic solutions, and curriculum framework sharing.
RC-010: Puck Collect (Jr/Sr)	Auto	High	Junior: Lego, VEX IQ Senior: VEX EDR	Lego-centric training covering rules, basic solutions, and curriculum frameworks.
RC-011: Free Style (Jr/Sr)	Creative	Moderate	No restrictions	Comprehensive training on competition rules and evaluation criteria.
RC-012: Unknown Mission (Jr/Sr)	Auto	High	Lego, VEX IQ	Rules and onsite solution training. Junior: Question banks for daily teaching. Senior: Highly challenging, requires 3+ years of programming/structural experience.

2. RC.CODE Programming Events

- **Format:** Scratch, Python, and C++ software programming challenges.
- **Target Group:** Dependent on the school's existing curriculum and willingness to participate.
- **Platform:** Automated grading via the RC.CODE Global Programming OJ System.
- **Scale:** The 2026 season includes preliminaries, online world championships, and offline coding master tournaments, serving 30 countries and 15,000

participants.

3. ROBOBOOM Junior Events (Beginners in Grades 3-4)

Event ID & Name	Target Group	Type	Equipment Requirements	Teacher Training Arrangements
RB-001: Curling Challenge	Grade 3	Remote	Lego, VEX IQ, or other programmable kits	Rules training, basic solutions, and curriculum framework training.
RB-002: Line Straight Sprint	Grades 3-4	Auto	Lego kits	Rules training, basic solutions, and curriculum framework training.
RB-003: RoboParade	Under Grade 6	Creative	Lego, VEX IQ type kits	Rules training and award-winning pro