



DEPARTMENT OF THE ARMY
HEADQUARTERS 7TH BRIGADE
UNITED STATES ARMY CADET COMMAND
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ATCC-GG

25 Sept 2024

MEMORANDUM FOR All 7th Brigade JROTC VEX Robotics Teams

SUBJECT: Memorandum of Instruction (MOI#5) for the SGM(R) Grey Championships JROTC VEX Robotics Challenge 15 March 2025.

1. **Situation/Mission.** In conjunction with the SGM(R) Paul Gray Championships, 7th Brigade hosts a VEX Robotics Challenge at North Middle School on 15 March 2025 from 0830-1600. This event will challenge JROTC Robotics teams and provide a venue for programs and Cadre that have yet to start Robotics Teams to view the competition. Location: North Middle School 100 Trojan Way, Radcliff, Kentucky 40160.

2. **How to Register for Free.** If you don't have a Robot Events account; create an account at [robotevents.com](https://www.robotevents.com). Once you are logged in your Robot Events account you have to register your robot(s) like you would an automobile. While registering your robot(s) make sure you select VRC HS, Army JROTC Affiliation. **When you go to payment, select Pay Later.** Make sure you write down your invoice number and your robot's license number. For example, 33112A. Then fill out this online Form to register your robot for free. **Registration of your Robot closes 12 December.** <https://form.asana.com/?k=tnrWqSZJezGKJBN2jZUYKA&d=1155142940258934> Once your account is marked paid (may take several days) Then your robot(s) can register for the 7th BDE Robotics Competition. If you registered your robot last year you have to follow these steps to renew your robot's registration. **Teams must register online for the event NLT 6 March 2025.** Online registration for this event can be found at the following link: <https://www.robotevents.com/robot-competitions/vex-robotics-competition/RE-V5RC-24-6219.html#general-info>

- a. There is no entry fee to compete in this event. All Robotics Team members must complete a VEX Robotics Hold Harmless Agreement which is attached. All team captains will maintain a copy of all team member's agreements on their person or be able to show that the forms are uploaded in their team account on www.robotevents.com

3. **Team Composition.** Robotics teams do not have a minimum or maximum required amount of participants. Teams should predominately consist of JROTC Cadets, but can contain non-Cadets. Teams are limited to 6 robots per school.

4. **Challenge Execution.** The 7th Brigade Robotics Challenge will be conducted using the combined Robot Skills Challenge of the VEX Robotics Competition 'High Stakes' format. The VEX Robotics 'High Stakes' Game Manual, Appendix B – Robot Skills Challenge to the 'High Stakes' Manual are attached.

- a. Check-In Procedures. The Robotics Challenge is a first come, first serve event. Teams planning to compete will proceed to the Robotics Arena (North Middle School Gym during the allotted time (0830-1600) and check in with event staff.
- b. For Judge Awards. Engineering notebooks need to be submitted IOT be considered for the Judge Awards.
- c. Robot inspections. When a team moves to the challenge arena area, their robot will be inspected by a member of the event staff using the VEX Robot Inspection Checklist. At this time, teams will turn in their Design Notebooks for review.
- d. Robotics Skills Challenge. The Robotics Skills Challenge consists of three Driver Skills Matches and three programing matches. Driver Skill Matches consists of a 60 second driver-controlled period. Programing Matches consist of a 60 second programming period. Teams will be allowed there Driver Controlled attempts and three programing attempts. The highest score of the three attempts will be used to rank the team. Specific rules governing the Robotics Skills Challenge can be found in Appendix B of the VRX Spin up Game Manual. After completing all their runs, the team must complete a team interview at the judging table to be considered for the Judged Awards.
- e. Awards. The following awards will be presented:
 - 1) Category 1 Robot Skills Champion – Recognizes the highest scoring team from the challenge.
 - 2) Category 1 Robot Skills 2nd Place
 - 3) Category 1 Robot Skills 3rd Place
 - 4) Excellence Award – Top all-around team in both performance and judged.
 - 5) Design Award – Team with the best and most effective and efficient design process, judged.
 - 6) Judged Award – Team deserving recognition from Judges deserving special accomplishments, judged award.
 - 7) Innovate Award – Recognizes an effective and well documented design process for a novel aspect of the team's robot design or gameplay strategy.
 - 8) Think Award – The Think Award recognizes the most effective and consistent use of coding techniques and programming design solutions to solve the game challenge.
 - 9) Amaze Award – recognizes a consistently high-performing and competitive robot.

- 10) Build Award – recognizes a well-constructed robot that is constructed with a high degree of attention to detail in order to hold up to the rigors of competition.
- 11) Create Award – recognizes a creative engineering design solution to one or more of the challenges of the competition.
- 12) Energy Award - recognizes passion for the competition and positivity at the event.

5. **Administration.** Changes to this MOI will be announced as necessary via email or at the SGM Paul Gray Championships.

- a. Tools/spare parts/VEX Supplies. Each team is responsible for all tools, spare parts and supplies to all robot inspection and challenge requirements. Teams are urged to bring spare batteries.
- b. Team Pit Areas: There will be no assigned team pit areas. There will be tables set up next to the electrical outlets throughout the gym so teams can work on and charge their robots.

6. The point of contact for this memorandum is John Sheaffer at jsheaffer@clhscadets.com or 260-483-1102.

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MAURICE BENNETT
Director, 7th BDE JROTC

Enclosures:

VRC-VEX Robotics Hold Harmless Form
VRC-Robot Inspection Checklist
VRC-High Stakes-Game Manual
VRC- REC Foundation Guide to Judging
PPT Robotics for Dummies