



Grand Blanc High School Robotics Team



VEX Robotics Team – Advanced Level Deliverables Skills Challenge Deliverable – Driver Coach

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Mentors to ask if you have questions about this Challenge: Brandi Bolinger or Clinton Bolinger

IMPORTANT NOTE: You must attend a competition that is offering official Skills Challenges or one of the designated Skills Challenge days in order to complete this challenge.

Gather the following Materials:

1. Your Engineering Notebook
2. Writing Utensils
3. A time-keeping device (stopwatch, wrist watch, phone, etc)
4. Instructions for current season Skills Challenge - VEX Robotics Competition Game (can be found at <https://www.vexrobotics.com/vexedr/competition/vrc-current-game> and scrolling near the bottom)

Before Starting this Challenge:

1. Read the instructions for the Robot Skills Challenge and familiarize yourself with the process of participating in a VEX Skills Challenge.
2. Combine with a pair of Students who are completing the “Initial Member” portion of this Deliverable as an Operator and Driver.
 - a. You will be the Drive Coach for BOTH of their Skills Challenge Matches.
 - b. Go with your group to sign up to participate in the Skills Challenge at the event you’re attending OR plan to participate in one of the Skills Challenge Days.
 - c. If you cannot find a group of first-year Students to participate with, you may pair-up with two Advanced-Level Students who plan to participate in Skills Challenges at an Event.

Challenge Instructions

1. **You will need to complete this challenge TWICE as Drive Coach.** The Students you pair-up with will have to complete a Driver Challenge and an Operator Challenge, and you will coach both matches.
2. NOTE: You will not be completing the Programming Skills Challenge for this deliverable; the Driver Skills Challenge will be used twice to complete this deliverable.
3. **THREE** people should be completing this challenge simultaneously; one as the OPERATOR, one as the DRIVER, and one as the DRIVE COACH.
4. Assign a person (who is NOT participating in this challenge as the Driver, Operator or Drive Coach) to be the time keeper, if you are participating outside of the competition (where the Skills Challenges are regulated)
5. Ensure that the field is set up in the fashion outlined in the instructions linked above.
6. Connect the robot to the field, and complete the Skills Challenge as per the instructions in Appendix B.
7. Reset the field for the next group to use.
8. Repeat this challenge as necessary to allow your partners to complete as an OPERATOR and DRIVER.



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Engineering Notebook Entry Instructions:

Answer the following questions (using complete sentences) in your Engineering Notebook:

1. Why is it important to maintain communication between the DRIVER, OPERATOR and DRIVE COACH before, during, and after a match?
2. How is being a DRIVE COACH different than completing the Skills Challenges, or being part of the drive team as an OPERATOR or DRIVER during a competition (explain whichever situation you've experienced)?
3. What else did you learn while completing this Skills Challenge as a DRIVE COACH?
4. How have these Skills Challenges changed your impression of the roles, responsibilities, and emotions that come with being a DRIVE COACH?

To Complete Your Challenge:

- Complete your Engineering Notebook Entry.
- Take your completed Engineering Notebook entry to Clinton or Brandi to have your deliverables checklist validated. *Please do not present your Engineering Notebook for approval during a VEX Event.*