



RENFREW COUNTY SKILLS COMPETITION

Scope of Automotive Pit Stop Challenge

Challenge (Teams of 2)

Purpose of the Competition:

To test the skill, knowledge and attention to detail of a pair of students to work as a team in an automotive setting, and to test the skill and knowledge of each student in the use of the various tools used to remove and replace wheels on a vehicle.

Each school can send three (3) teams of 2 students.

Safety Note: Student safety is as always top priority. Therefore, required PPE and safety precautions will be maintained throughout the competition. Use of safety glasses and CSA approved footwear is mandatory.

Supplied Equipment :

- Automobile set up on 4 safety stands.
- Cordless Impact guns and sockets
- Torque wrenches/Ratchets
- Safety glasses

Details/Expectations:

- Students will work in pairs as a school-representative team of 2 in a timed competition.
- When instructed to begin, students will proceed to the vehicle and each will remove a tire from 1 side of the car (1 front and 1 back) with the impact gun and socket (they will each have 1).
- Students will then exchange tires (rotate) and proceed to install their respective tire using the provided hand tools only (**NOT THE IMPACT GUN**).
- After hand tightening the wheel nuts, students will torque each nut with their respective torque wrench to a pre-set specified torque.
- Students will then return all tools to the designated tool return area.

Evaluation:

- Students are timed from the word "GO" (by the starter) to when the tools are returned to the satisfaction of the starter who indicates "STOP".
- Depending on the number of teams, there will be either 2 or 3 heats and the combined times will be calculated to determine the placement of the teams. Prizes will be awarded to the top 3 teams.
- A time penalty of 15 seconds may be issued at the discretion of the judge/starter related to safety infractions (ie throwing of tools/tires)