



**DSBN REGIONAL Automotive Service Technician SKILLS CHALLENGE 2021
SECONDARY LEVEL SCOPE**

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PURPOSE OF THE CONTEST:

- Allow students to showcase their knowledge, skills and abilities in the Automotive Service field through simulated auto repair situations.
- Promote friendly competition and collaboration between students from the participating schools.

EVENT DETAILS:

Date: Monday, March 1 - March 12, 2021 (tentative)

Time: 4 hour period

Location: Individual Schools

SKILLS AND KNOWLEDGE TO BE TESTED:

- **Written exam**
 - Online written test covering Automotive Knowledge
- **Brake line flaring, bending and installation**
 - Properly flare two ends of a brake line with proper flare nuts. One end Bubble Flare one end double flare. Properly bend lines.
- **Tire Removal and Replacement**
 - Students will dismount a tire, remove the valve stem, inspect the rim, install a new valve stem, mount and balance a tire.

- **Vehicle Inspection**

- Students will perform basic troubleshooting tasks including, electrical, cooling system, scan tool, steering, suspension and brake system.

SAFETY REQUIREMENTS and SUPERVISION

Teachers or another designate must supervise the student to ensure that safety is adhered to and to maintain the integrity of the competition. If a supply teacher is required, It is preferable to have the teacher supervise the student for the Challenge.

Other safety considerations:

- Competitors are required to follow all industry safety standards during the competition.
- Safety glasses and safety approved footwear is required in the automotive lab at all times.

EQUIPMENT, MATERIALS, TOOLS, AND SUPPLIES:

- All Tools and Equipment must be Supplied by the Individual Contest Site. You must have a digital multimeter, Tire machine and balancer, Coolant pressure tester, Scan tool, brake flaring kits(double and bubble), Basic power and hand tools and general shop vehicle for inspection. Video recording equipment.

Materials Supplied Centrally:

- 10" length of Brake Line
- Double flare nut
- Bubble flare nut
- Written Exam
- Valve Stem

Material Supplied by the Individual Site

- **All PPE**

CLOTHING REQUIREMENTS:

- Casual business attire, along with the supplied DSBN Technology t-shirts.

JUDGING INSTRUCTION:

- Teachers are to video record start to finish from the point of opening the contestant package to completion and submit recordings unedited to the judging panel.

JUDGING CRITERIA:

- Marks are determined by skills and abilities demonstrated during each station.

ENTRY: Students must register online at <http://teched.dsbm.org/skills> with all of the required information completed to be eligible to participate.

TEACHER'S ROLE:

Instructors are expected to acquaint their student participants with all of the enclosed guidelines. Provide a safe and equitable environment.