

Skill # 33	Skill Name: AUTOMOBILE TECHNOLOGY
Maximum Capacity: 4 Competitors – 1 registration per school Maximum Competitor/competitors per school allowance may be subject to change	Level: Secondary
Date of Competition: March 22, 2024	Location of Competition: Campus Regina Public 1069 14 th Ave E. Regina, SK S4N 0T8 Room: 132 (Shared)
Provincial Technical Committee Chair: Name: James Halushka Email: james.halushka@liskysd.ca	Provincial Technical Committee Co-Chair(s): Name: Brian Mohns Email: brian.mohnsroadstar1600@gmail.com Name: Don Tkachhuk Email: don.tkachuk@gssd.ca

Competition Schedule	Competition is 1 Day Only
Check-in time	7:30 am
Orientation	8:00 am
Project Start	8:15 am
Contest Completion	3:00 pm

*Lunch will be provided for competitors.

1. SKILLS FOR SUCCESS

The key Skills for Success in this career path are Reading | Numeracy | Writing | Digital | Problem Solving | Communication | Collaboration | Adaptability | Creativity & Innovation. These skills form the foundation for learning in different trades and technologies, playing a vital role in numerous occupations and everyday situations. A well-developed set of SFS ensures effective readiness for skill training and work, with a high standard required in many trade and technology fields. In this competition you will primarily be challenged using the essential skills of Reading | Numeracy | Writing | Problem Solving | Communication | Adaptability.

2. PURPOSE OF THE COMPETITION | SKILLS & KNOWLEDGE TO BE TESTED

Assess the competitor skills in correctly inspecting, repairing, and adjusting detached and / or mounted auto parts, as compared to industry standards. Practical assignments will be based on selected areas of the scope document.

3. SKILLS & KNOWLEDGE TO BE TESTED

The following will be tested during the contest: Service Information Retrieval, Engine Mechanical, Engine Management, Ignition Systems, Vehicle Emission Systems, Electrical Accessories, Electrical, Braking systems, Suspension and Steering, and Powertrains.

4. SAFETY

Safety is the top priority at the Provincial Skills Competition. All participants in the SCS Provincial Competition must meet the designated safety requirements for their respective event areas. These safety requirements will be thoroughly explained during the orientation with all the competitors. It is essential to adhere to these safety guidelines, as failure to do so will result in non-participation in the competition.

5. Potential Challenges to be prepared for:

Workshop Procedures

- Service Information Retrieval
- Electronic system use
- Traditional manual/information printouts use
- Interprets work order information to convey diagnostic approach.
- Explanation of service work performed.

Engine Mechanical

- Assembly / disassembly
- Identify components
- Component fault diagnosis
- Inspection and testing
- Diagnosis and service of cylinder heads and blocks
- Measurements with precision measuring tools which could include but not limited to; plastigauge, micrometers, feeler gauges, and straight edge

Engine Ignition, Management and Emissions

- Identify components
- Drivability diagnostics and repair
- Test equipment usage
- Scan Tool
- Multi-meter (DVOM)
- Lab-scope
- System repair
- Component operation and testing

Electrical Systems

- Starting systems
- Charging systems
- Batteries
- Accessories
- Testing and diagnosis
- Body and Chassis Electrical

Braking Systems (excluding air brake systems)

- Identify components
- Inspection and testing
- Assembly / disassembly
- Base Brake systems
- ABS / Traction / Stability
- Maintenance, repairs, & adjustments (may include rotor and drum service).

Manual Transmission and Drivetrain Components

Identify components
Inspection, measurement, and testing
Assembly / disassembly
Maintenance / adjustments
Driveline measurements and adjustments

6. EQUIPMENT

- a. **Committee will provide:** All Tools and equipment
- b. **Competitors Must Supply:** Safety footwear

7. CLOTHING | UNIFORM | ATTIRE REQUIREMENTS

- Dress in comfortable and non-objectional clothing
- Competitors **must** wear closed-toe shoes

8. PPE (Personal Protective Equipment)

Competitors Must Supply: Steel toe Safety footwear (must have green tag)
Competitors Must Supply: Safety Glasses (must be clear lensed and CSA approved)

9. EVALUATION & JUDGING CRITERIA

ITEM	POINT VALUE/ PERCENTAGE
Electrical Trainer	10
Basic Wiring-Headlamps and Relays	10
Drum/Disc Brakes/ inspection/ measurement	10
Hydraulic Line Repair/Flare	10
Engine Measurement/inspection, Crank, Cam, Piston	15 points
Manual Transmission/clutch Inspection/measurement	15 points
Driveability –Scan, Diagnostic flow cart and repair	15 points
Service Information Activity-verify Specs	5 points
Written Exam	10 points
TIE-BREAKING PROCESS	<ol style="list-style-type: none">1. As the rules state, there are no ties.2. If the score is tied after the contest, the exam will be used to break the tie.

10. PTC CONTACT INFORMATION

NAME	Association/Organization	Email
James Halushka	North Battleford High School	james.halushka@lskysd.ca
Don Tkachuk	Yorkton Regional High School	don.tkachuk@gssd.ca

11. ADDITIONAL NOTES

Ethical Conduct:

- *We expect all competitors to participate in the competition with fairness, respect, and adherence to the established rules, embodying the true spirit of Skills Canada Saskatchewan.*
- *Our competitions are designed to be positive and supportive environments, showcasing student skills in various areas, and promoting different trades. Honesty, integrity, and fair play are highly valued, and any form of abusive or berating behavior towards others will not be tolerated.*

Competition Results and Progression:

- *Gold-level winners of the 2024 Skills Canada Saskatchewan Provincial Competition may have the opportunity to advance to the Skills Canada National Competition.*
- *Medals will be awarded to participants achieving gold, silver, and bronze placements. This does not guarantee an invitation to the Skills Canada National Competition.*
- *A comprehensive ranking of the Provincial Competition results will be available on the website the week following the competition www.skillscanadasask.com*
- *The National Competitions for qualifying Secondary and Post-Secondary participants will be held in-person in Quebec City the week of May 27-31, 2024.*

Certificate of Participation:

- *Competitors who fully participate in the Provincial Competition are eligible for a Certificate of Participation.*
- *All participation certificates will be emailed to participants after the competition concludes. This is a great addition to your resume portfolio.*

Infractions and Mark Deductions:

- *Any infractions of the contest scope, project outline(s), and rules will result in appropriate mark deduction(s) at the discretion of the Tech Chair(s)/Judge(s).*
- *Not all infractions lead to automatic disqualification unless explicitly stated in the competition scope.*
- *Decisions regarding mark deductions or possible disqualifications will be reviewed by the Tech Chair(s) and Director of Competitions.*

We encourage everyone to approach the competition with a positive and supportive attitude, demonstrating good sportsmanship and respect for fellow participants and organizers. We have come together to celebrate skills and trades, fostering an environment of growth and mutual support.

12. SKILLS CANADA SASKATCHEWAN CONTACT INFORMATION

<p>Skills Canada Saskatchewan</p> <p>3634 Millar Ave. Saskatoon, SK S7P 0B1</p> <p>infosask@skillscanada.com</p> <p>(306) 373 6035</p>	<p>Jayden Leister Executive Director jaydenl@skillscanada.com</p> <p>Heidi Friesen Lead Competition Coordinator heidif@skillscanada.com</p> <p>Adrienne Markham Program and Events Coordinator adriannem@skillscanada.com</p>
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