



28th ANNUAL SKILLS MANITOBA COMPETITION CONTEST DESCRIPTION

COMPETITION DATE: April 9, 2026

COMPETITION NAME: Automobile Technology

COMPETITION NO: 33

LEVEL: Maximum number of competitor's Secondary level – 14

Maximum number of competitors' Post-Secondary level – 14

COMPETITION LOCATION: Red River College Polytechnic - Notre Dame Campus – Automotive Building "M" Main Floor (SHOP).

COMPETITION START TIME AND DURATION:

Registration will take place in Building "M" Room M-109 (Electrical Lab).

Competitors are to arrive at 7:15 a.m. and change into their PPE.

Competitor orientation & workstation walk through taking place at 7:30 a.m. to 7:45 a.m.

Station Leads will guide competitors through the competition area prior to the commencement of the competition.

Competition starts at 8:00 a.m. SHARP in Building "M" Automotive Building.

Each station has a time limit of 40 minutes.

Each station is worth 100 points.

There will be NO cell phone use allowed for the entirety of the competition. Competitor devices will be gathered and locked in a secure location for the event and handed back at the end of the competition.

No communication with spectators, family, teachers or instructors during the competition. Disqualification may result.

PURPOSE OF CHALLENGE:

Assess the competitor's skills in correctly inspecting, repairing, diagnosing and adjusting detached and / or mounted auto parts, as related to industry standards. Each station will incorporate separate tasks for Secondary and Post-Secondary competitors.

SKILLS AND KNOWLEDGE TO BE TESTED:

Safety

- CSA approved footwear
- Safety glasses / goggles
- Clean Coveralls / Shop coats / Appropriate Shop Clothing
- All competitors must follow Red River Colleges safety protocol in each of the competition areas

Service Information Retrieval

- Traditional manual use
- Mitchell Pro Demand Online service information.

Customer Relations

- Satisfy customer inquiries
- Interprets customer information to convey diagnostic approach
- Explanation of service work performed in written or verbal form.

Driveline

- Disassemble/Reassemble components
- Identification of components
- Component fault diagnosis
- Inspection, testing, adjustments
- Use of precision measuring devices as practiced in the automotive industry.
- Proper use of micrometers, feeler gauges.
- Service Manual interpretation

Engine Mechanical

- Disassemble/Reassemble engine/partial engine
- Identification of components
- Component fault diagnosis
- Inspection, testing, adjustments and service manual interpretation
- Use of precision measuring devices as practiced in the automotive industry.
- Proper use of micrometers, feeler gauges.
- Service Manual interpretation

Engine Management: Snap-On Verus Pro and Verus Edge scanners provided in this Station.

Vehicles: TBA

- Inspection and testing
- Drivability diagnostics and Trouble Code interpretation
- Scan Tool / Multi-meter Usage
- Component operation and testing
- Test equipment usage
- Ignition / Emission Systems
- Identify components

Electrical Systems:

Vehicles: TBA

- On car testing and diagnosis of electrical accessories
- Individual component testing
- Construction of electrical circuits (**Consulab**)
- Wiring Schematic interpretation
- Diagnostic test equipment usage

Braking Systems

- Identification of components
- Inspection and diagnosis on Front Disc and Drum Brake Systems
- Assembly and disassembly of brake components
- Routine maintenance / adjustments
- Demonstrate ability to use Tubing / Flaring tooling/equipment
- Measuring Tool usage following the Manitoba Motor Vehicle Safety Inspection Procedures; Drum sizing / Rotor Runout and/or thickness / Shoe or pad wear etc.

Steering and Suspension Systems

- On car inspection and testing
- Removal and servicing/replacement of a major front-end components
- Routine maintenance / adjustments
- Road trip inspection / Tire and Wheel Inspection
- Component Identification
- Servicing of major steering and suspension components
- Performing alignments

Automotive Measurement

- On and off car measurement
- Various measuring tools will be used
- Accuracy and proper use will be scored
- Evaluation of items based on accuracy

POINT BREAKDOWN (700 POINTS): Seven Stations

Follows procedures as per industry standards

- Achieves target results.
- Time.
- Compliance with safety regulations.
- Vehicle and equipment care.
- Respects vehicle integrity.
- Respects parts integrity.
- Performs each task using industry-accepted practices.
- Shows a positive attitude to the judges and other contestants.
- Emphasis in marking should be toward overall performance as opposed to completion of station.
- Each practical station shall have equal value and total 100% of the competition.
- **Tie Breaker:** In the event of a tie, the Head Judge and Lead facilitator will exercise their right to use a count back system by combining and then averaging the two scores from the **Electrical and Engine Management Stations**. The winner or medallist will be determined by the highest **total mark** of the combined stations earned by the competitor through the process of a count back.

NATIONAL COMPETITION ELIGIBILITY:

- A mark of **70% or higher** must be scored by the gold medalist in each contest in order to attend the National Skills Competition

SPECIALTY EQUIPMENT, TOOLS and or MATERIALS WILL BE PROVIDED BY COMMITTEE:

EQUIPMENT, TOOLS, MATERIALS SUPPLIED BY COMPETITOR

- Safety goggles / glasses are to be worn at all times. (to be supplied by contestant)
- CSA approved safety footwear must be worn at all times.(to be supplied by contestant)
- Appropriate work apparel is to be worn by all competitors.
- Failure to comply with safety guidelines will result in the disqualification or removal of competitor from competition.
- All tools and equipment will be supplied and generic in nature.

WORKSITE SAFETY RULES / REQUIREMENTS

Judges will be qualified industry representatives, wherever possible. Every attempt is made to ensure judges are qualified industry representatives.

THE IMPORTANCE OF SKILLS FOR SUCCESS FOR CAREERS IN THE SKILLED TRADES AND TECHNOLOGY;

In response to the evolving labour market and changing skill needs, the Government of Canada has launched the new Skills for Success (former Essential Skills) model defining nine key skills needed by Canadians to participate in work, in education and training, and in modern society more broadly. SCC is currently working with Employment and Social Development Canada (ESDC) to bring awareness of the importance of these skills that are absolutely crucial for success in Trade and Technology careers. Part of this ongoing initiative requires the integration and identification of the Skills for Success in contest descriptions, projects, and project documents. The following 9 skills have been identified and validated as key skills for success for the workplace: 1.Numeracy, 2.Communication, 3.Collaboration, 4.Adaptability, 5.Reading, 6.Writing, 7.Problem Solving, 8.Creativity and Innovation, 9.Digital

IMPORTANT NOTE: Teachers / Instructors and or coaches are not allowed to speak with their competitor or enter any station during the duration of the competition.

Failure to comply will result in the removal of the competitor from the competition. Secondary schools or post-secondary schools in violation will lose the right to enter the Auto Service #33 Competition for the next upcoming year.

FOR MORE INFORMATION, PLEASE CONTACT:

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