



# 2012 15<sup>th</sup> ANNUAL SKILLS MANITOBA COMPETITION CONTEST SCOPE

**CONTEST NAME:** Automotive Service

**CONTEST NO:** 33

**LEVEL:** Secondary & Post-Secondary

Maximum number of competitors Secondary level – 12 (Note: 1 competitor per school for the secondary contest)

Maximum number of competitors Post-Secondary level - 12

**CONTEST LOCATION:** Red River College - Notre Dame Campus

**CONTEST START TIME AND DURATION:**

6 hours, immediately after opening ceremonies.

**PURPOSE OF CHALLENGE:**

Assess the contestant's skills in correctly inspecting, repairing and adjusting detached and / or mounted auto parts, as compared to industry standards.

**SKILLS AND KNOWLEDGE TO BE TESTED:**

Safety

- Proper eye protection and clothing MUST be worn at all times during the competition.
- CSA approved footwear
- Safety glasses / goggles
- Coveralls / Shopcoats
- All competitors must follow safety standards as per competition area

Service Information Retrieval

- Traditional manual use

#### Customer Relations

- Satisfy customer inquiries
- Interprets customer information to convey diagnostic approach
- Explanation of service work performed

#### Manual Transmissions / Manual Transaxles

- Identify components.
- Analyze gear ratios
- Power flow
- Clutch operation
- Assembly / disassembly procedures
- Component failure diagnostics
- Examination questions in each station regarding all aspects of the repair and diagnosis of automobiles.

#### Engine Mechanical

- Assembly / disassembly
- Identify components
- Component fault diagnosis
- Inspection and testing
- Diagnosis and service camshaft timing and cylinder head diagnosis
- Measurements
- Examination questions in each station regarding all aspects of the repair and diagnosis of automobiles.

#### Engine Management

- Identify components
- Inspection and testing
- Identify components
- Drivability diagnostics
- Scan Tool / Multi-meter
- Component operation and testing
- Test equipment usage
- Ignition Systems
- Examination questions in each station regarding all aspects of the repair and diagnosis of automobiles.

#### Vehicle Emissions part of Engine Management

- Exhaust gas analysis
- Identify components
- System inspection and testing
- Examination questions in each station regarding all aspects of the repair and diagnosis of automobiles.

#### Electrical Accessories / Electrical Systems

- Testing and diagnosis of electrical accessories
- Starting systems
- Charging systems
- Batteries Examination questions in each station regarding all aspects of the repair and diagnosis of automobiles.

#### Braking Systems (excluding air brake systems)

- Identify components
- Inspection and testing
- Assembly / disassembly
- Basic systems
- Routine maintenance / adjustments.
- Diagnostics
- Tubing Project
- Measuring Tool usage
- Examination questions in each station regarding all aspects of the repair and diagnosis of automobiles

#### Suspension and Steering

- Identify components
- Inspection and testing
- Assembly / disassembly
- Routine maintenance / adjustments
- Diagnostics
- Component Identification
- Purpose, operation and testing of identified components Examination questions in each station regarding all aspects of the repair and diagnosis of automobiles.

#### **POINT BREAKDOWN (1000 POINTS):**

Follows procedures as per industry standards

- Achieves target results.
- Time.
- Compliance with safety regulations.
- Vehicle and equipment care.
- Vehicle integrity.
- 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 90% of the competition.
- Written exam shall be worth no more than 10% of the competition total.
- Tie Breaker: In the event of a tie, total competitor time at each of the stations will be used to break the tie.

**NATIONAL COMPETITION ELIGIBILITY:**

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

**EQUIPMENT, TOOLS, MATERIALS TO BE PROVIDED BY COMMITTEE:**

None.

**EQUIPMENT, TOOLS, MATERIALS TO BE SUPPLIED BY COMPETITOR:**

- Safety goggles / glasses must 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)
- 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.
- Appropriate work apparel is to be worn by all competitors. Penalties will be assessed to competitors who wear promotional apparel that is not representative of the exclusive partnership agreements endorsed by Skills Canada at the time of the competition.

**WORKSITE SAFETY RULES / REQUIREMENTS:**

Judging will be done by qualified industry representatives, wherever possible. Every attempt will be made to ensure judges are qualified industry representatives.

**FOR MORE INFORMATION PLEASE CONTACT:**

Len Grieve (204) 632-3996

[lgrieve@rrc.mb.ca](mailto:lgrieve@rrc.mb.ca)