



2010 13th ANNUAL SKILLS MANITOBA COMPETITION CONTEST SCOPE

CONTEST NAME: Auto Service

CONTEST NO: 33

LEVEL: Secondary & Post Secondary

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

- Electronic system use
- Traditional manual use

Customer Relations

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

Theory

- Examination questions regarding all aspects of the repair and diagnosis of automobiles.

Fabrication

- Select and operate appropriate fabricating hand tools.

Manual Transmissions / Manual Transaxles

- Identify components.
- Analyze gear ratios
- Power flow
- Clutch operation
- Assembly / disassembly procedures
- Routine maintenance / adjustments
- Component fault diagnosis

Automatic Transmissions / Automatic Transaxles

- Identify components
- Routine maintenance / adjustments
- Assembly / disassembly procedures
- Electrical / hydraulic diagnosis
- Power flow
- Component fault diagnosis

Differentials Driveshafts / Driveaxles

- Identify components
- Assembly / disassembly
- Inspecting and testing
- Inspection and adjustment of operating angles
- Powerflow
- Adjustments

Engine Mechanical

- Assembly / disassembly
- Identify components
- Component fault diagnosis
- Inspection and testing
- Diagnosis and service of cylinder heads and blocks
- Measurements

Turbochargers / Superchargers

- Identify components
- Inspection and testing

Heating / Cooling Systems (excluding A/C)

- Identify components
- Inspection and testing
- Assembly / disassembly

Fuel Systems

- Identify components
- Inspection and testing
- Engine Management
- Identify components
- Drivability diagnostics
- Test equipment usage

Scan Tool

Multi-meter

Lab-scope

Exhaust gas analyzer

Component operation and testing

Ignition Systems

- Identify components
- Inspection and testing
- Diagnostics
- Adjustments

Vehicle Emissions

- Exhaust gas analysis
- Identify components
- System inspection and testing

Electrical Accessories

- Testing and diagnosis of electrical accessories

Electrical

- Starting systems
- Charging systems
- Batteries
- Testing and diagnosis

Braking Systems (excluding air brake systems)

- Identify components
- Inspection and testing
- Assembly / disassembly
- Basic systems
- ABS
- Routine maintenance / adjustments.
- Diagnostics

Suspension and Steering

- Identify components
- Inspection and testing
- Assembly / disassembly
- Routine maintenance / adjustments
- Diagnostics
- Component Identification
- Purpose, operation and testing of identified components

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.

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:

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