

12TH PROVINCIAL SKILLS COMPETITION

2009 SKILLS CANADA NEWFOUNDLAND AND LABRADOR



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AUTOMOTIVE SERVICE

Scope Document

Post-Secondary Level

Friday, April 3rd, College of the North Atlantic, PPD Campus – St. John's

Duration of Contest: 6 hrs.

PURPOSE OF THE CHALLENGE

Access the contestant's 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.

SKILLS AND KNOWLEDGE THAT MAY BE TESTED

Safety

Proper eye protection and clothing **MUST** be worn at all times during the competition.

- CSA approved footwear
- Safety glasses / goggles
- Appropriate work apparel must be worn. (Coveralls, shopcoats, pants and shirts)

All competitors must follow safety standards as per competition area.

Service Information Retrieval

- Electronic system use. (All Data)
- 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.

Differentials Driveshafts / Driveaxles

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

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Engine Mechanical

- Identify components
- Component fault diagnosis
- Measurements
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Fuel Systems

- Identify components
- Inspection and testing

Engine Management

- Identify components
 - Drivability diagnostics
 - Test equipment usage
- Scan tool (generic)
Multi-meter
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

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- Routine maintenance / adjustments
- Diagnostics

Component Identification

- Purpose, operation and testing of identified components

JUDGES

Judging will be done by qualified industry representatives, wherever possible.

EQUIPMENT, TOOLS, SUPPLIES, CLOTHING

- Safety goggles / glasses must be worn at all times and are to be supplied by the contestant.
- CSA approved safety footwear must be worn at all times and are to be supplied by the contestant.
- All tools and equipment will be supplied and generic in nature. If you wish to contact the Technical Chair (see below) to inquire about the presence of a particular piece of equipment at the competition, you may do so. However, we cannot guarantee or promise particular makes or models of equipment.
- Appropriate work apparel: coveralls, shopcoats, pants, shirts) are to be supplied by the competitor.

POINT BREAKDOWN

Marking will be done out of 100.

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|--------------|------------|---|
| Practical | 80% | * Each practical station is worth 20% for a total value of 80%. |
| Written Exam | <u>20%</u> | |
| TOTAL | 100% | |

JUDGING CRITERIA

- Follows procedures as per industry standards
- Achieves target results
- Time
- 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

Tie Breaker: In the event of a tie, the written exam mark will be used to determine the winner.

PROVINCIAL TECHNICAL COMMITTEE

| | | |
|------------------------|-------------------------------|--|
| Charlie Druken (Chair) | College of the North Atlantic | charlie.druken@cna.nl.ca |
| Faron Penney | Academy Canada | |
| Jeff Moores | College of the North Atlantic | |
| Craig Mulcahy | Academy Canada | |