

Provincial Scope Document

AUTOMOTIVE SERVICE (Post-secondary)2017

Contest Length: 8 hours

Check in time: 8:30

Contest Start: 9:00

Contest Sponsor: _____

Purpose of the Challenge:

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

Skills & Knowledge to be Tested:

Safety:

- Proper eye protection and clothing **MUST** be worn at all times during the competition
- CSA approved/goggles
- Coveralls/shop coats
- All competitors must follow safety standards as per competition area

Service Information Retrieval:

- Electronic system use
- Traditional manual use

Customer Relations:

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

Theory:

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

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/ Drive shafts /Drive axles

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

Engine Mechanical

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

Fuel Systems

- Identify components
- Inspection and testing

Engine Management

- Identify components
- Driveability 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

Judges

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

Tools / Equipment / Supplies / Clothing

- All tools and equipment will be supplied and are generic in nature

To be supplied by contestants:

- CSA approved safety footwear must be worn at all times
- CSA approved safety glasses or goggles
- Coveralls / shop coats

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Point Breakdown / 1000 Total:

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- 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 10% of the competition total

Safety Requirements:

Safety awareness/requirements will be maintained at minimum industry standards (Workers Compensation Board or equivalent) at all times. Contestants will not be allowed to participate without proper safety equipment.

Technical Committee:

Technical Chair Jason Devisser

Jason.devisser@gmail.com

Robert Kunka, Alex Romashenko, Greg Henderson,
Jason Devisser, Bill Barnes, Gary Mui, Louis Lui, Andu
Keddis, Ryan Lee, Mike Coard, Ralph Spolowicz, Jay
Copeland, Herb Ruppe.

Skills Canada BC reserves the right to make changes to the scope document. Please check the website for updates.