

Provincial Scope Document

AUTOMOTIVE SERVICE (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

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
- 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

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 / shopcoats

Point Breakdown / 1000 Total:

- 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, Alex Wu, , 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.