



SKILLS CANADA PEI PROVINCIAL COMPETITION

CONTEST DESCRIPTION	
Competition Date	March 7 th , 2017
Competition location	HOLLAND COLLEGE WATERFRONT CAMPUS Automotive Shop Room 122
Trade Number	33
Trade Name	AUTOMOTIVE REPAIR
Level	SECONDARY

1. INTRODUCTION

1.1 Purpose of the Challenge.

Assess the contestant's skills in correctly testing, checking and adjusting automotive, light vehicle systems.

1.2 Duration of contest.

Duration of Competition: 7.5 hours

START/END TIME:

8:00 AM Registration and time for competitors to become familiar with the competition area

8:15 Introductions; details of the competition; question & answer session

8:30 Competition Begins

11:30 Lunch Break (Lunch will be provided to competitors)

12:00 Noon Competition Resumes

4:30 Judging of competition

*schedule subject to change



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2.1 Tasks that may be performed during the contest

- **Workshop Procedures**
 - Service Information Retrieval
 - Electronic system use
 - Traditional manual/information printouts use.
 - Interprets work order information to convey diagnostic approach⁸.
 - Explanation of service work performed.

- **Engine Mechanical**
 - Assembly / disassembly
 - Identify components
 - Component fault diagnosis
 - Inspection and testing
 - Diagnosis and service of cylinder heads and blocks
 - Measurements with dial-indicator, plastigage, micrometers, feeler gauges, and straight edge

- **Engine Ignition, Management and Emissions**
 - Identify components
 - Drivability diagnostics and repair
 - Test equipment usage
 - Scan Tool
 - Multi-meter (DVOM)
 - Lab-scope
 - System repair
 - Component operation and testing

- **Electrical Systems**
 - Starting systems
 - Charging systems
 - Batteries
 - Accessories
 - Testing and diagnosis
 - Body and Chassis Electrical

- **Braking Systems (excluding air brake systems)**
 - Identify components
 - Inspection and testing
 - Assembly / disassembly
 - Base Brake systems



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ABS / Traction / Stability
Routine maintenance, repairs, & adjustments.
Diagnostics

- **Suspension and Steering**

Identify components
Inspection and testing
Assembly / disassembly
Routine maintenance / repairs and adjustments
Diagnostics

- **Manual Transmission and Drivetrain Components**

Identify components
Inspection, measurement and testing
Assembly / disassembly
Routine maintenance / adjustments
Driveline measurements and adjustments
Driveshaft diagnosis and repair

- **Theory and Component Recognition**

Computer based theory recognition exam

The above is a guide only and is subject to change

3. CONTEST DESCRIPTION

- 3.1** The competition will be delivered over 8 stations (see section 7),
Each station will be marked individually and will test a different skillset.
Each station will be 35 minutes in length.

4. ESSENTIAL SKILLS

Essential skills are used in nearly every job and at different levels of complexity. They provide the foundation for learning all other skills and enable people to evolve with their jobs and adapt to workplace change. Good Essential Skills means you will understand and remember concepts introduced in technical training. The level of Essential Skills required for most trades is as high or higher than it is for many office jobs.



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5. EQUIPMENT, MATERIAL, CLOTHING

5.1 Each competitor will bring the following:

All contestants will supply their own safety glasses, work uniform and CSA work boots.

COMPETITORS WILL NOT BE ALLOWED TO COMPETE WITHOUT THE ABOVE ITEMS.

5.2 Equipment and material provided by the competition site

Tools and equipment will be supplied by the competition committee.

Hearing protection and nitrile gloves will be supplied by competition committee

5.3 Required clothing (Provided by competitor)

All contestants **will** supply their own safety glasses, work uniform, and CSA work boots. Dark colored denim, blue or black work pants or dark coveralls will be considered acceptable pants

Collared cotton work shirts are preferred, but T-shirts will be allowed (no offensive slogans)

Absolutely NO hoodies permitted. Absolutely NO tank tops or muscle shirts

All clothing will be clean respectable and untorn

Any hats worn will be respectable and clean

NO hand or wrist jewellery permitted while competing

6. SAFETY REQUIREMENTS

6.1 List of required personal protective equipment (PPE) provided by competitors

Safety glasses, CSA work boots. (Provided by competitor)

Regular prescription eyewear is not acceptable for use as safety eyewear

Note: Competitors will not be allowed to compete if the above items are not brought and used



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7. ASSESSMENT

7.1 Point breakdown

POINT BREAKDOWN	/1000
Engine Mechanical Systems	125
Disc Braking Systems	125
Theory and Component Recognition	125
Drum Braking Systems	125
Body Electrical	125
Drivability (Powertrain Management)	125
Steering and Suspension	125
Drivelines	125

8. ADDITIONAL INFORMATION

8.1 Tie (No ties are allowed)

Ties are not allowed. In the event of a tie, the theory / component recognition will be used as a tie breaker

8.2 Competition rules

Please refer to the competition rules for all general PSC information.

9. CONTACT INFORMATION

Name	Email address
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