

Skills Canada National Competition

SCOPE DOCUMENT

SCOPE DOCUMENT	
Competition Year	2012
Competition location	Edmonton, AB
Trade Number	33
Trade Name	Automotive Service
Level	Secondary and Post-Secondary

1. INTRODUCTION

1.1 Purpose of the Challenge.

Assess the competitor skills in correctly inspecting, repairing and adjusting vehicle systems and / or components, as compared to industry standards. Practical assignments will be based on selected areas of the scope document.

1.2 Duration of contest.

12 hours

1.3 Skills and Knowledge to be tested.

The following will be tested during the contest: Service Information/Retrieval Systems, , Engine Mechanical, Engine Management, Ignition Systems, Vehicle Emissions, Electrical Accessories, Electrical, Braking and related systems, Suspension and Steering, Power trains and precision measurement.

2. CONTEST DESCRIPTION

2.1 List of documents produced and timeline for when competitors have access to the documents.

DOCUMENT	DATE OF DISTRIBUTION VIA WEBSITE
Vehicle Manufacturer	Two weeks before the competition

2.2 Tasks that may be performed during the contest

- **Service Information Retrieval**
Electronic system use
Traditional manual use
- **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
Drivability diagnostics
Test equipment usage
Scan Tool
Multi-meter
Lab-scope

Component operation and testing

- **Ignition Systems**

Identify components
Inspection and testing
Diagnostics

- **Vehicle Emissions**

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/Traction/Stability control
Routine maintenance/adjustments
Diagnostics

- **Manual Transmission/Transaxle**

Identify components
Inspection, measurement and testing
Assembly / disassembly
Routine maintenance / adjustments

- **Suspension and Steering**

Identify components

Inspection and testing
 Assembly / disassembly
 Routine maintenance / adjustments
 Diagnostics

- **Precision Measurement**

Identify, set-up measuring equipment, measure, and verify component condition.

3. EQUIPMENT, MATERIAL, CLOTHING

3.1 Equipment and material provided by Skills/Compétences Canada

- All required tools and equipment

3.2 Equipment and material provided by the competitor

- Competitors are not required to supply any tools or equipment.

3.3 Required clothing (Provided by competitor)

- Appropriate work apparel must be worn. (Coveralls, shop coats, pants & shirts)

4. SAFETY REQUIREMENTS

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

- | | | |
|--|---|--|
| <input checked="" type="checkbox"/> Safety Glasses | <input checked="" type="checkbox"/> CSA approved Safety shoes | <input type="checkbox"/> Latex gloves |
| <input type="checkbox"/> Safety Gloves | <input type="checkbox"/> Welding helmet | <input type="checkbox"/> Dust Mask |
| <input type="checkbox"/> Hard Hat | <input type="checkbox"/> Welding gloves | <input type="checkbox"/> Leather gloves |
| <input type="checkbox"/> Hearing protection | <input type="checkbox"/> Respiratory protection | <input type="checkbox"/> No PPE required |

Note: Hearing protection, nitrile and/or mechanics gloves are optional. These must also be supplied by the competitor.

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

4.2 List of required personal protective equipment(PPE) provided by Skills/Compétences Canada (SCC)

- | | | |
|---|--|--|
| <input type="checkbox"/> Safety Glasses | <input type="checkbox"/> CSA approved Safety shoes | <input type="checkbox"/> Latex gloves |
| <input type="checkbox"/> Safety Gloves | <input type="checkbox"/> Welding helmet | <input type="checkbox"/> Dust Mask |
| <input type="checkbox"/> Hard Hat | <input type="checkbox"/> Welding gloves | <input type="checkbox"/> No PPE required |

Hearing protection Respiratory protection

No additional PPE will be supplied by SCC

5. ASSESSMENT

5.1 Point breakdown

POINT BREAKDOWN	/1000
Engine Mechanical	160
Electrical Systems	170
Engine Management	170
Suspension and Steering	170
Brakes and Related Systems	170
Manual Transmission/Transaxle	160

6. ADDITIONAL INFORMATION

6.1 Consecutive translation

If consecutive translation is required on site, the Skills/Compétences Canada Provincial/Territorial offices must advise Skills/Compétences Canada National Secretariat a minimum of 1 month prior to the competition or this service might not be guaranteed.

6.2 Software requirements

If French software is required the Skills/Compétences Canada Provincial/Territorial offices must advise Skills/Compétences Canada National Secretariat a minimum of 1 month prior to the competition or this software might not be guaranteed.

6.3 Computer keyboard requirements

English Keyboards will be provided, if a French keyboard is required the Skills/Compétences Canada Provincial/Territorial offices must advise Skills/Compétences Canada National Secretariat a minimum of 1 month prior to the competition or this keyboard might not be guaranteed.

6.4 Tie (No ties are allowed)

In the event of a tie, the most number of station wins will determine the winner, and if still tied a 25 question written test will be used to determine the winner.

6.5 Competition rules

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

7. NATIONAL TECHNICAL COMMITTEE MEMBERS

Region	Name	Email address
Pacific Region	Vic Enders	vlenders@northwestel.net
Western Region	Leonard Grieve	lgrieve@rrc.mb.ca
Ontario	Martin Restoule	restoum@algonquincollege.com
Québec	Sylvain Pelletier	syl.pelletier@ymail.com
Atlantic Region	Jeff Dingwell	jdingwell@hollandcollege.com
Workshop Supervisor	Robert Prediger	rprediger@nait.ca