

CONTEST DESCRIPTION
DESCRIPTION DE CONCOURS

AUTOMOTIVE SERVICE MÉCANIQUE AUTOMOBILE

SECONDARY AND POST-SECONDARY
NIVEAU SECONDAIRE ET POSTSECONDAIRE

CONTINUOUS LEARNING



FORMATION CONTINUE

DIGITAL



COMPÉTENCES NUMÉRIQUES

DOCUMENT USE



UTILISATION DE DOCUMENTS

NUMERACY



CALCUL

ORAL COMMUNICATION



COMMUNICATION ORALE

READING TEXT



LECTURE

WORKING WITH OTHERS



TRAVAIL D'ÉQUIPE

WRITING



RÉDACTION

THINKING



CAPACITÉ DE RAISONNEMENT

1. The Importance of Essential Skills for Careers in the Skilled Trades and Technology

SCC is currently working with Employment and Social Development Canada (ESDC) in order to bring awareness to the importance of Essential Skills that are absolutely crucial for success in the workforce. Part of this ongoing initiative requires the integration and identification of Essential Skills in contest descriptions, projects, and project documents. The next phase and very important aspect of our Essential Skills (ES) initiative is to provide an ES report card to each competitor at the Skills Canada National Competition. The purpose of the ES report card is to inform the competitor about their current level of essential skills based on their competition scores. With this knowledge, the competitor will be made aware which essential skill may require improvement. This will be piloted in a number of areas for 2016 with full implementation in the 2017 Skills Canada National Competition.

This is part of an ongoing initiative that requires the integration and identification of Essential Skills in contest descriptions, projects, and project documents. 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. The following 9 skills have been identified and validated as key essential skills for the workplace in the legend below:

¹Numeracy, ²Oral Communication, ³Working with Others, ⁴Continuous Learning, ⁵Reading Text, ⁶Writing, ⁷Thinking, ⁸Document Use, ⁹Digital

These essential skills have been identified with in section 2.3 and/or 3.2 of your Contest Description. The top three Essential Skills for your area of competition have been identified on your Project and all other supporting project documents.

2. CONTEST INTRODUCTION

2.1 Purpose of the Challenge.

Assess the competitor 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.

2.2 Duration of contest.

12 hours

2.3 Skills and Knowledge to be tested.

The following will be tested during the contest: Service Information Retrieval, Engine Mechanical, Engine Management, Ignition Systems, Vehicle Emission Systems, Electrical Accessories, Electrical, Braking systems, Suspension and Steering, Power Trains,

3. CONTEST DESCRIPTION

3.1 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 |

3.2 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 Mechanical⁷**
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 Emissions⁷**
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
- **Braking Systems (excluding air brake systems)**
Identify components
Inspection and testing
Assembly / disassembly
Base Brake systems
ABS / Traction / Stability
Routine maintenance, repairs, & adjustments.
Diagnostics
- **Suspension and Steering⁷**
Identify components
Inspection and testing
Assembly / disassembly
Routine maintenance / adjustments
Diagnostics
- **Manual Transmission and Drivetrain Components**
Identify components
Inspection, measurement and testing¹
Assembly / disassembly
Routine maintenance / adjustments

Essential Skills – ¹Numeracy, ⁷Thinking (Critical, Job Task Planning & Organizing), ⁸Document Use

4. EQUIPMENT, MATERIAL, CLOTHING

4.1 Equipment and material provided by Skills/Compétences Canada

- All required tools and equipment

COMPETITORS WILL BE REQUIRED TO USE THE MATERIAL AND EQUIPMENT PROVIDED BY SCC. ALL OTHER MATERIAL AND EQUIPMENT WILL BE REMOVED FROM THE SKILL AREA.

4.2 Equipment and material provided by the competitor

- Competitors are not required to supply any tools or equipment

4.3 Required clothing (Provided by competitor)

- A professional image must be portrayed. Appropriate work apparel must be worn. (Provincial shirts, coveralls, shop coats, work pants only, no hats and shirts must be tucked in)

Note: Your contest area for SCNC 2016 will be hosted outside under tents. Come prepared for any weather conditions and dress accordingly.

5. SAFETY REQUIREMENTS

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

- Safety Glasses
- CSA approved Safety shoes
- Hearing protection
- Nitrile and/or mechanics gloves are optional.

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

6. ASSESSMENT

6.1 Point breakdown

| POINT BREAKDOWN | /100 |
|----------------------------|------|
| Engine Mechanical | 16 |
| Electrical | 17 |
| Engine Management | 17 |
| Suspension and Steering | 17 |
| Brakes and related systems | 17 |
| Manual Transmission | 16 |

7. ADDITIONAL INFORMATION

7.1 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.

7.2 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.

7.3 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.

7.4 Test Project change at the Competition

Where the Test Project has been circulated to Competitors in advance, NTC shall change a maximum of 30% of the work content. Please refer to the Competition Rules.

7.5 Tie (No ties are allowed)

In the event of a tie, the competitor with the highest score at the Electrical station will be declared the winner.

7.6 Competition Rules

Please refer to the competition rules of the Skills Canada National Competition

8. NATIONAL TECHNICAL COMMITTEE MEMBERS

| Member Organisation | Name | Email address |
|---------------------------|-------------------|------------------------------|
| Yukon | Vic Enders | |
| Manitoba | Len Grieve | |
| Ontario - Chair | Martin Restoule | restoum@algonquincollege.com |
| Québec | Sylvain Pelletier | |
| Newfoundland and Labrador | Charlie Druken | |
| Saskatchewan | James Halushka | |
| Prince Edward Island | Jeff Dingwell | |
| Alberta | Ricky Martineau | |
| British Columbia | Jason Devisser | |
| Nova Scotia | Daniel Hiltz | |
| New Brunswick | Bill McDonald | |