Contest Description
Automobile Technology
Post-Secondary

1. Schedule

DATE	LOCATION
FRIDAY, March 19, 2027	NSCC AKERLEY CAMPUS
TIME	**TASK**
8:00 am – 8:30 am	Orientation
8:40 am – 9:30 am	1st session
9:40 am – 10:30 am	2nd session
10:40 am – 11:30 am	3rd session
11:30 pm – 12:30 pm	Lunch (mandatory, provided)
12:40 am – 1:30 pm	4th session
1:40 pm – 2:30 pm	5th session
2:40 pm – 3:30 pm	6th session

2. Purpose of the Contest

To assess the competitor's 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 contest description document.

3. Criteria

The competition will consist of six (6) stations.

4. Number of Stations / Competitors

There will be a maximum of six (6) competitor spaces available.

5. Knowledge, Skills and Abilities to be Assessed

a) Workshop Procedures

- Service Information Retrieval;
- Electronic system use;
- Traditional manual/information printouts use;

- Interprets work order information to convey diagnostic approach;
- Explanation of service work performed.
- Confirm Problem. Look for related symptoms. Analyze all information available; come up with an action plan. Isolate suspected area of problem. Repair problem area. Confirm systems function as expected

b) Engine Mechanical

- Assembly/disassembly;
- Identify components;
- Component fault diagnosis;
- Inspection and testing;
- Diagnosis and service of cylinder heads and blocks;
- Measurements with precision measuring tools, which could include but not limited to: Plastigauge, micrometers, feeler gauges and straight edge.

c) 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.

d) Electrical Systems

- Starting systems;
- Charging systems;
- Batteries;
- Accessories;
- Testing and diagnosis;
- Body and Chassis Electrical.

e) Braking Systems

- Identify components;
- Inspection and testing;
- Assembly/disassembly;
- Base Brake systems;
- ABS / Traction / Stability;

- Maintenance, repairs, & adjustments (may include rotor and drum service);
- Diagnostics

f) Suspension and Steering

- Identify components;
- Inspection and testing;
- Assembly / disassembly;
- Maintenance, repair and adjustment;
- Diagnostics.

g) Manual Transmission and Drivetrain Components

- Identify components;
- Inspection, measurement and testing;
- Assembly / disassembly;
- Maintenance / adjustments;
- Driveline measurements and adjustments;
- Driveshaft diagnosis and repair.

6. Prerequisites

Contest-Specific Prerequisites

- Contestants must be able to follow shop manual procedures and retrieve information on electronic shop manual information systems;
- Contestants must have the ability to use and interpret measuring and diagnostic equipment readings such as scanners, DVOMs, etc.

SCNS Prerequisites

- Post-Secondary competitors must meet the following criteria in the current school year:
- Be enrolled in a community college, university, private school OR be a registered apprentice with the Department of Labour and Advanced Education (Apprenticeship Agency);
- Be registered as a competitor with Skills Canada – Nova Scotia;
- The competitor cannot have received their journey-person certification prior to March 1 of the competition year;
- Possess Canadian citizenship or Permanent Resident (Landed Immigrant) status and

be a resident of Nova Scotia; or be a registered International Student. Competitors are responsible for verifying this information if requested;
- Have been earning post-secondary credits in a sector relevant to the one in which they wish to compete (i.e. to compete in carpentry, the student would be earning credits in any construction-related trade) at any time during the academic school year (September to June);
- All competitors must be able to show either current apprenticeship status and/or proof of enrollment in a post-secondary institution upon request of the Provincial Technical Committee (PTC) or Skills Canada – Nova Scotia.
- Have completed and submitted a signed release form

7. Equipment & Clothing

a) What will be Supplied

- Tools;
- Equipment;
- Service information;
- Nitrile gloves;
- Hearing protection;

b) What Competitors will Supply

- Safety glasses must be worn at all times;
- Steel toed boots must be worn at all times;
- Competitors may bring their own mechanical gloves, if desired;

*****Competitors will not be permitted to compete without the above items, with the exception of the mechanics gloves, which are optional.

8. Evaluation & Judging Criteria

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

- All procedures must follow proper safety practices;
- Proper trade procedures are to be followed;
- Some stations may have bonus points or negative points for special conditions;
- Each station has a time limit of 50 minutes.

9. Additional Information

No ties are permitted. In the event of a tie, the winner will be decided by utilizing the mark received in the electrical portion of the competition.

10. Provincial Technical Committee Information

Name	Employer	Email
Percy Thurston (Chair)	NSCC Burridge Campus	Percy.Thurston@nscc.ca
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