



COMPETITION SCOPE

14th Annual Nova Scotia Skills Competition

Official Competition Name: Automotive Service

Competition Level: Secondary

Competition Location: NSCC, Akerley Campus Dartmouth Nova Scotia

Competition Date & Time: April 28th, 2011 @ 7:30 am

Timeline

This is where you include the schedule for the day. Don't forget to factor in a one hour orientation meeting for competitors.

For example:

7:30 – 8:30	Orientation
8:40 – 9:10	1 st Session
9:20 – 9:50	2 nd Session
10:00 – 10:30	3 rd Session
10:40 – 11:10	4 th Session
11:20 – 11:50	5 th Session
11:50 – 12:20	LUNCH (Mandatory)
12:30 – 1:00	6 th Session
1:10 – 1:40	7 th Session
1:50 – 2:20	8 th Session
2:30 – 3:00	8 th Session

Purpose of 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.

Number of Stations/Contestants:

The Competition will consist of nine stations and we will accept a maximum of ten competitors.

Contest Description / Skills and knowledge to be tested

• **Service Information Retrieval**

This competition area will consist of locating a list of service procedures and specifications using Mitchell On Demand, All Data and Traditional service manuals.

• **Engine Mechanical**

This competition area will consist of an engine on a stand that requires disassembly, identification and measurement of components and reassembly. The competitor will utilize service information for procedures and specifications.

• **Fuel Systems**

This competition area will utilize a fuel delivery system with an electrical or mechanical fault installed that simulates a condition that could occur in a vehicle. The competitor will utilize service manuals or electronic service information on the operation of the system to diagnose and locate the fault.

• **Engine Management**

This competition area simulates a customer complaint of MIL illuminated. The competitor will diagnose the problem using a TECH II or Genesis scan tool and DVOM. Following your diagnostics you will inform the judge of the necessary repair.

• **Theory**

This competition area will consist of a written examination regarding all aspects of the repair and diagnosis of automobiles.

• **Electrical**

This competition area will utilize a starting system with an electrical fault installed that simulates a condition that could occur in a vehicle. The competitor will require an understanding of starting and charging systems, batteries and basic electrical testing and diagnostics. Following your diagnostics you will inform the judge of the necessary repair.

• **Disc Brake Systems**

This competition area will consist of a complete disc brake inspection. During your inspection you will record all required service and specifications.

• **Drum Brake Systems**

This competition area will consist of a drum brake inspection repair and set-up. The competitor will utilize service manuals or electronic service information.

• **ABS Brake Systems**

This competition area simulates a customer complaint of ABS light illuminated. The competitor will diagnose the problem using a TECH II or Genesis scan tool and DVOM. Following your diagnostics you will inform the judge of the necessary repair.

• **Suspension and Steering**

This competition area will consist of competitors performing various suspension component repairs, replacement and diagnostics.

Prerequisites

Competitor must be enrolled in a recognized provincial Tech Ed program. 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.

Equipment, tools, supplies, clothing

Safety glasses must be worn at all times.

Safety footwear must be worn during competition.

Note: Competitors will not be allowed to compete without the above items

Note : Hearing protection, nitrile and/or mechanics gloves are optional. These must also be supplied by the competitor. Tools, equipment and service information will be provided.

Point Breakdown

All procedures must follow proper safety practices.

Proper trade procedures are to be followed.

Each station is worth 100 points.

Some stations may have bonus points or negative points for special conditions.

Each station has a time limit of 30 minutes.

Technical Committee Member and Judges:

The judges will consist of qualified industry people, and scoring outcomes are based on accepted industry repair standards.

Provincial Technical Committee:

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