

2009 Provincial Skills Competition

Scope Document

Northlands Agricom, Edmonton

May 13 & 14, 2009

EVENT: Auto Service	LEVEL: Secondary
START TIME DAY ONE: ORIENTATION: 8:30 AM COMPETITION: 9:15 AM DAY TWO: ORIENTATION: 7:45 AM COMPETITION: 8:00 AM	LOCATION: Hall C, Northlands Agricom, Edmonton
THEORY EXAM: Yes	DURATION: 10 Hours (over 2 days)
WORLDSKILLS TRADE #: 33	REGIONALIZED EVENT: No

GENERAL DESCRIPTION

Purpose of the Challenge:

To identify and evaluate student's performance in Automotive Service Technology, while demonstrating the skills required for maintaining and repairing automobiles

Skills and Knowledge to be Tested:

Theory Exam 15%
Practical Demonstrations 85%

Competition Topics:

- Automotive Hand Tool Project
- Drivability & Scan Tools
- Electrical Systems
- Electronic Service Information Retrieval
- Power Train, Brakes, Suspension & Steering
- Engine Measurement & Parts Identification

Theory Exam:

This is a broad based Theory Examination (multiply-choice) covering all aspects of the repair and diagnosis of automobiles in the Automotive Service Technician Trade. Details of this trade's theory section can be found at <http://www.tradesecrets.gov.ab.ca> The section breakdown of the examination is below

Section Name	Percentage of Questions on Examination
Basic materials, tools and skills	6
Power train and drivelines	7.5
Suspension and steering	18
Brakes	12
Electrical	11
Gasoline and diesel engines	19.5



Manual transmissions	7
Rear axle assemblies	7
Basic automatic transmissions	7
Power accessories	5

Safety Requirements:

- Competitors are required to follow all industry safety standards during the competition
- Competitors will not be allowed into the competition area without the required safety equipment.
- Personal Protective Equipment including safety glasses, and CSA approved footwear.

RELATED CAREER AND TECHNOLOGY STUDIES MODULES

MEC 1040	MEC 2070	MEC 2150	MEC 3070
MEC 1090	MEC 2090	MEC 2160	MEC 3090
MEC 2030	MEC 2110	MEC 3030	MEC 3130
MEC 2040	MEC 2130	MEC 3040	MEC 3150
MEC 2060	MEC 2140	MEC 3060	

Descriptions of all modules are located at the following website:
<http://www.education.gov.ab.ca/cts/mechanics/>

EQUIPMENT & MATERIALS

The committee will provide all necessary smocks, hand tools, materials, and electrical test equipment required to perform the tasks.

Competitors must supply an HB pencil, an eraser, and a calculator.

JUDGING CRITERIA

Each student will be scored for their ability to comprehend written instructions, interpret and perform tasks related to each practical test, and demonstrate common safety practices. In addition, each student will be evaluated for performance on a theory examination

In the event of a tie, the written exam score will be omitted and the average score of the skill stations will determine the winner.

COMMITTEE MEMBERS

Mark Murray	St. Joseph Catholic High School
Kelly Schropfer	Red Deer College
Denis Guenette	NAIT
David Daniels	Lethbridge Community College
Cal Coley	NAIT
Charles Park	Kennedale School
Bruce Sibbald	NAIT
Ernie Brucker	Alberta Apprenticeship & Industry Training
Rob Prediger	NAIT
Rick Martineau	SAIT
Stuart Ribey	Lakeland College
Darwin Schatz	SAIT



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Brad Gabrielson	Red Deer College
Dino Fregonese	St. Joseph Catholic High School
Gilbert Renaud	Red Deer College
Patrick Brown-Harrison	SAIT
Glenn Demers	SAIT
Darcy Wallace	SAIT
Calvin Feist	NAIT
Daryl Drummond	Ford Motor Company