

Automotive Service 2010 SCOPE DOCUMENT

Medicine Hat College
April 29, 2010



EVENT: Automotive Service (Team of 2)	LOCATION: T143
REGISTRATION: 7:00-7:45 a.m.	CONTEST START TIME: 8:30 a.m.
ORIENTATION: 7:45-8:30 a.m.	CONTEST END TIME: 2:50 p.m.
CONTEST DURATION: 5.5 hours	AWARDS CEREMONY: 4:30 p.m.

GENERAL DESCRIPTION:

Written and practical test to identify and evaluate student's performance of Automotive Service technology, while demonstrating the skills required for maintaining and repairing automobiles.

RELATED CAREER AND TECHNOLOGY STUDIES MODULES:

Descriptions of all modules are located at the following website:

<http://www.education.gov.ab.ca/cts/mechanics/>

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

SKILLS AND KNOWLEDGE TO BE EVALUATED:

Theory Exam 15%

Practical Demonstrations 85%

Skills and Knowledge to be Evaluated:

The following skills will be tested:

- 1) Wheel bearing adjustment
- 2) Differential measurement and adjustment
- 3) Brake drum disassembly
- 4) Piston removal and cylinder measurement
- 5) Transmission gear ratio
- 6) Cylinder head measurement
- 7) Use of scan tools
- 8) Identifying components
- 9) Written Exam

THEORY EXAM:

This is a broad based Theory Examination (multiple-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.org> The section breakdown of the examination is below.

- Basic materials, tools and skills
- Power train and drivelines
- Suspension and steering

- Brakes
- Electrical
- Gasoline and diesel engines
- Manual transmissions
- Rear axle assemblies
- Basic automatic transmissions
- Power accessories

CLOTHING AND SAFETY REQUIREMENTS:

All competitors are expected to wear protective apparel including safety glasses and CSA approved footwear. Competitors are required to follow all safety standards during the competition.

EQUIPMENT AND MATERIALS:

Supplied by the Competitor:

All competitors are encouraged to bring their own coveralls or shop coats, safety glasses, and scan tools.

Supplied by the Committee:

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

JUDGING CRITERIA:

Judging criteria will be based upon the contest objectives listed in this document. Each student will be scored on 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

******Note: Competitors are required to follow all industry safety standards during the competition. No portable sound systems, cell phones food or drink will be allowed in the contest area. All competitors must be aware that Skills Canada Alberta competitions operate in a non-smoking environment.***

TECHNICAL JUDGES:

Ray Shannon
Chad Schulz
Al Kessler
Kerry Buss
Scott Robinson

MHC - Automotives Coordinator
MHC - Technical Assistant
MHC - Instructor
Action Auto Parts
Retired Teacher

COMMITTEE MEMBERS:

Ray Shannon
Jerry Friesen
Aaron Biro
Roy Graf
Russ Konschuh
Susan Feeney

MHC - Automotives Coordinator
Brooks Composite High School
Crescent Heights High School
McCoy High School
Medicine Hat High School
Project Manager, Southeast Alberta
Regional Skills Competition