

## 2010 Regional Skills Canada Competition

Scope Document

Red Deer College

April 29,2010

<b>EVENT:</b> Auto Service	<b>LEVEL:</b> Secondary
<b>START TIME</b> 8 AM. <b>ORIENTATION:</b> 8 AM – 8:30 <b>COMPETITION:</b> 8:30AM-Noon(1hour lunch) 1 PM – 2:30PM	<b>ORIENTATION</b> Rm. 829 <b>COMPETITION</b> Auto Service Lab Rm. 837
<b>THEORY EXAM:</b> Yes	<b>DURATION:</b> 5 hour competition
<b>WORLDSKILLS TRADE #:</b> 33	<b>REGIONALIZED EVENT:</b> Yes

### 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

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

### SKILLS AND KNOWLEDGE TO BE TESTED

Theory Exam 15%

Practical Demonstrations 85%

#### **Senior 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.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

### **EQUIPMENT & MATERIALS**

#### **Equipment and Materials competitors must supply:**

HB Pencil, eraser, and calculator

#### **Equipment and Materials supplied by Committee:**

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

### **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.

### **IMPORTANT GENERAL INFORMATION**

#### **Safety Requirements**

##### ***Competitor Must:***

- Supply protective apparel including safety glasses and CSA Approved footwear.
- Competitors are required to follow all industry safety standards during the competition.

***Please note that competitors will not be allowed into the competition area without the required safety equipment.***

### **COMMITTEE MEMBERS**

**JAMES PEDEN**

**AL HURLEY**