



Our Hands...Building Our Future

Regional Skills Competition

Regional Skills Competition 2009 • Automotive Technology • Scope

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Media Sponsors:



Competition:

Automotive Technology

Date:

Monday, May 11, 2009

Location:

Fleming College, Frost Campus
200 Albert St. South, Lindsay
Resource Drilling Department

Schedule:

9:00 – 9:20	Registration & Orientation
9:20 - 4:00	Competition Session
11:00-1:00	Lunches

Purpose of Competition:

Allow students to express their knowledge and abilities in the field of Automotive Technology. Build the students' confidence in the knowledge they already have and promote a healthy attitude toward discovering and managing future challenges. To display to the students several real life automotive repair situations in an effort to make the students better prepared to enter into the trade of Automotive Service Technician. Elevate self-esteem by applying knowledge, skills and learning ability. Promote friendly competition and a healthy positive attitude by providing a fair competition environment that measures success, ability and effort.

Skills and Knowledge:

Brakes, Steering and Suspension

- Safety
- Component ID
- Inspection and testing
- Disassembly and assembly
- Fabricating metal brake lines
- Adjustments
- Diagnostics
- Use of micrometer, drum gauge and torque wrench, Metric and SAE
- Finding system information and specifications
- Recording findings

Electrical

- Safety
- Component ID
- Reading and understanding electrical schematics
- Using component and splice locators
- Proper use of a test light, logic probe, Digital Volt Ohm Meter (DVOM)
- Testing and diagnosis
- Circuit calculations
- Use of a calculator
- Recording findings

Body Functions

- Safety
- Recording findings
- Using By-Directional Scanners to diagnose body, ABS and network malfunctions
- Using hand held oscilloscopes to test vehicle multiplexing problems

Skills and Knowledge:

Vehicle Performance

- Safety
- Component ID
- Component location
- Testing and diagnosis
- Use of automotive tools, multi-meters, non-intrusive probing
- Reading secondary Ignition patterns
- Repair strategy and tactics
- Recording findings

Drive Train

- Safety
- Component ID
- Component location
- Power flow
- Calculate gear ratios
- Clutch operation
- Disassemble and assemble procedures
- Maintenance and adjustment
- Fault diagnosis

Information Retrieval

- Prepare a work order to be used in a shop by a technician
- Prepare a final invoice for presentation to a customer

Fabricating

- Use of common automotive hand tools
- Precision measurements
- Precision cutting (hacksaws, taps, dies, drilling and files)
- Broken stud removal
- Following instructions
- Logical order of operation
- Planning
- Organizing
- Time management

Components of Competition:

Practical Project:

The practical part of the competition will consist of 6 work stations that will test your skills and knowledge of a variety of automotive technology components.

Interview:

To assist competitors in fully preparing for their eventual job searches and to become valued employees, there will be a job interview incorporated into this competition. It is expected that the competitors arrive prepared WITH A RÉSUMÉ and be ready for interview questions and discussion (see Appendix A).

Written Test:

- 30 multiple choice questions
- 20 parts identification questions
- Questions will cover all aspects of repair and diagnosis of automobiles



Judging Criteria:

Total possible score is: 100%

Worksite Safety	20
Written Test	10
Interview	10
Projects	<u>60</u>
Total	100

Equipment and Materials:

Supplied by Committee:

- Vehicles
- Automotive components
- Manuals
- Snap on scanner
- Tools

Supplied by Competitor:

- Shop coat or coveralls with no school identification or other advertisements
- Safety glasses
- STEEL-TOE WORK BOOTS

Appendix A

To help you prepare for a career in your chosen field, there is a Job Interview component for each competitor in each competition. You will be required to participate in a mock interview. Please be prepared to answer any of the following questions.

- 1) What are your career goals?
- 2) Why are you interested in the field of Automotive Technology?
- 3) What leadership abilities do you feel you have and please give examples?
- 4) What practical experience would you bring to a position?
- 5) What would you do if you saw a co-worker break a policy or procedure?
- 6) What are some of the difficulties/hazards that you may encounter in the working environment?
- 7) Tell me about a time you worked with others. Was the experience successful? Why or why not?
- 8) What do you feel it takes to be an expert in the field of Automotive Technology?
- 9) What is the most fulfilling project you have worked on and what did you learn from it?
- 10) What is your competitive advantage?

