

## **Automotive Service Elimination Round**

### **Thursday March 26<sup>th</sup> 2020 at 1:00 pm**

This year the automotive contest will be at the Greenville Technical College McKinney Center both Thursday and Friday. Thursday will be an elimination round and the top 12 contestants progressing to Friday's final round of the contest

As in years past, we will furnish the tools and equipment for the contest. Contestants will only need to have their official Skills USA uniform for the contest. We do ask that all contestants to complete check in by 12:30 on Thursday.

#### **Station 1: Written ASE style test 125 points 40 minute station**

The test will consist of 50 multiple-choice questions randomly selected from all eight ASE areas.

#### **Station 2: Information Station-Alldata 125 points 40 minute station**

The contestant will be required to use Alldata to search for vehicle information.

Use electrical service information resources; locate specifications and other service information using electronic service information resources.

#### **Station 3: Alignment Station-Hunter 125 points 20 minute station**

The contestant will use supplied measurements from a Hunter aligner to identify problems associated with the measurements. Other areas include Identifying wheel alignment tools, explaining practical application of tools, identify steering suspension components, explain alignment theory, explain diagnosis of alignment conditions, and use reference materials provided.

#### **Station 4: Brakes 125 points 20 minute station**

The Contestants should be able to properly perform all the necessary steps as it relates to the following procedures:

- Disassemble and reassemble a Drum Brake System
- Disassemble and reassemble a Disc Brake System
- Remove a Brake Rotor
- Use a DMM to make Measurements
- Cut, Flare and Bend Brake Tubing

## **Automotive Service Final Round** **Friday March 27<sup>th</sup> 2020 at 9:00am**

Top 12 scores from Elimination Round Thursday move into the final round held on Friday.

### **Station 1: Electrical-Atech Boards/Fluke Meters 125 points 30 minute station**

The contestant diagnosis an electrical fault in the wiper system, power door lock system and power window system using a Digital Multi-Meter.

*Tools Used – Fluke87-V [Or Student supplied Auto Ranging DMM]*

Correctly identify electrical issues.

### **Station 2: Engine Measurement 125 points 30 minute station**

This station will require the contestant to use precision measuring tools and record condition of parts and answer questions as they relate to engine related problems.

### **Station 3: HVAC 125 points 30 minute station**

The contestant should be able to understand basic refrigeration cycle [State, Pressure, Components] of both orifice tube and thermal expansion valve systems. Also should have working knowledge of safety while using refrigerants and HVAC test equipment. The contestant should also be able to use and understand HVAC labels on the vehicle.

### **Station 4: Interview 125 points 30 minute station**

The interview will consist of meeting with a prospective employer and answering questions that would normally be subject in an interview process. Contestants will fill out an application.

**A resume is required for this event.**