

## Automotive AST

### Friday March 6<sup>th</sup> 2026 at 10:00 am

This year we will be at the Greenville Technical College McKinney Automotive Center. Friday morning will be the Automotive MLR Skills USA Competition.

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 9:30 AM on Friday morning.

#### **Station 1: Written ASE style test 100 points 20 minute station**

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

#### **Station 2: Information Station-Alldata 100 points 20 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: Interview 100 points 20 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 not required for this station.

#### **Station 4: Engine Repair 100 points 20 minute station**

This station will require the contestant to remove and install a timing belt and adjust valves.

#### **Station 5: Electrical 100 points 20 minute station**

The Contestant using a Digital Multi-Meter should be able to correctly measure circuits that they construct on an electrical board. Contestants should be able to use a use Ohm's law to calculate circuit resistance, amperage and voltage. Contestants should be able to diagnose a customer complaint on a vehicle.

#### **Station 6: HVAC 100 points 20 minute station**

The contestant should be able to understand basic refrigeration cycle [State, Pressure, Components] of both orifice tube and thermal expansion valve systems. Contestant 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. The contestant should be able to diagnose an issue with the HVAC system with a customer complaint.

**Station 7: Suspension & Steering 100 points 20 minute station**

The Contestants should be able to complete a proper alignment on a Hunter alignment machine. The Contestants should be able to determine from an alignment printout if the car will pull or drift and in which direction. The Contestants should be able to determine tire wear issues.

**Station 8: Automatic/Manual Transmission 100 points 20 minute station**

The contestants will identify components from an automatic and manual transmission. The contestants will check fluid level and condition.

**Station 9: Vehicle Inspections 100 points 20 minute station**

The contestants will complete a thorough Multi point inspection of a vehicle. Which could include lights, tire tread depths, air filter, cabin filter and etc.

**Station 10: Brakes 100 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
- Drum and Rotor Measurements