



Automotive Service Technology

Contest Update

Location:

College of Western Idaho - Nampa Micron Education Center
Auto Labs 1 & 2, NMEC 114 & 143
5725 E. Franklin Rd.
Nampa, ID 83687

Orientation - 7:45 AM – Thursday, March 5th, 2026

National Technical Standard Variations:

National Technical Standards will be followed as closely as possible.

Required Attire, PPE, Etc.:

The required attire will be closed toed shoes, pants, shirt. All belts will need the buckle turned to the side to avoid scratching cars. All competitors will need to bring and wear safety glasses at all times. A professional look will be requested such as tucking in your shirt, having a standard collared shirt, etc. but points will not be awarded for professionalism.

Safety glasses must have side shields or goggles. (Prescription glasses may be used only if they are equipped with side shields. If not, they must be covered with goggles.)

Competitors Must Bring:

- **An engine Scan tool - one that the contestant has been trained on or is most familiar.**
- **A DMM/DVOM will be required by every competitor.**
- **Safety Glasses**
- **1 printed copy of Resume**

Competitors Should Be Familiar With:

Ford and GM



Competition Overview:

1. HVAC: Students will be required to properly perform an A/C performance test, diagnose, and repair a vehicles a/c system using proper service information, scan tool data, and provided pressure gauges.
2. Engine Performance: Students must diagnose a performance/drivability concern on a vehicle using service information and scan tool data. No repair is required on this station
3. Body Electrical- This will be an electric vehicle station and students should be familiar with Ford FDRS
4. Environmental/Health and Safety: This station is a multiple choice test on workplace safety requirements, safety procedures, MSDS, and other OSHA and EPA regulations
5. Job Interview: students will be in a job interview scenario where they are applying for a job as an automotive technician in a realistic environment. **Printed copy of a resume is required.**
6. Electrical/Circuit Testing: Students will perform correct voltage drop and resistance measurements on a circuit trainer and perform correct circuit construction and understanding from a wiring diagram.
7. Steering/Suspension: Be familiar with suspension types and how to define the various suspension angles, while being able to detect how the tires would wear and which direction the vehicle will pull, along with alignment procedures and information within the alignment machine.
8. Brakes: Students must perform various inspection and measurement procedures on disc and drum brake systems. Removal, replacement, and inspection of components is required
9. Electric Vehicles- Students will demonstrate knowledge of proper EV safety and service of EV high voltage systems.
10. Engine Mechanical: Students will test their knowledge of the mechanical system of an internal combustion engine by adjusting components using service information.
11. Drive Train: Students will test their knowledge of a differential and show proper measuring and adjustment techniques