

2023 Region 2 & 5 Automotive Technology Contest Description

Overview

This year's Arizona SkillsUSA Region 2 & 5 Automotive Technology competition will be conducted on **Saturday, February 25 at Glendale Community College Dr. Phillip D. Randolph Automotive Technology Center** (see map and parking instructions below). The competition will include thirteen stations. The exercises include both hands-on and written work.



Logistics

- Check-in for competitors starts at 7:30am in the Automotive Technology Center.
- Competition starts promptly at 8:30am
- Each station is 15 minutes long.
- 4 minutes are scheduled between each station for competitors to rotate.
- Lunch will be provided for competitors during the competition.
- Competition will end around 2pm.
- Awards ceremony will take place in the Student Union (building SU) at 3pm.
- 1-3 place from each region will be recognized during awards ceremony.
- Top 10 places from each region will qualify for the State Automotive Technology Competition on April 11, 2023.

General Guidelines

Dress Code

- [Official SkillsUSA light blue work shirt](#) (highly recommended, state competition will be enforcing this year)
- **NOTE:** Due to time and monetary constraints to obtain Official SkillsUSA light blue shirt for the regional competition, substitutes can either be a generic light blue work shirt (see [here](#)), or any other work/colored polo style shirt as long as it does **NOT** have school specific logos or insignia.
- Black or navy work style pants
- Black or navy belt
- Black or brown leather work shoes
- Safety glasses with side shields or goggles. (prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.) This means no open shoes or high heels, no loose clothing or hair, no jewelry and no skirts or shorts. **POINTS WILL BE DEDUCTED FOR IMPROPER DRESS AND NO EYE PROTECTION.**



Safety

Students should be aware of and practice standard shop safety during all exercises. Safety glasses are required, unless Station Judges advise otherwise. Station judges will monitor safety practices and inform students if safety is compromised. **Points will be deducted for safety infractions.**

Conduct

1. Professional conduct is expected at all times during the competition and lunch break.
2. All contestants will remain in the contest area during the competition and lunch break and must ask for permission to leave the area for any reason.
3. Compliance with the Station Judge directions during the competition is required.
4. Students must refrain from using cell phones and conversing with other students, instructors or spectators during the competition and lunch; violators will be subject to disqualification.

5. Competitors must wear their contest identification badge at all times.

Students must:

1. Bring safety glasses
2. Bring their resume (for job interview station)
3. Bring their [completed job application](#) (for job interview station)
4. Be appropriately dressed (see dress code above)

NOTE: Students who do not bring the following items above will either be disqualified from the competition due to safety concerns OR loose points during the interview.

Station	Station Description	Special Tools Provided
S1 HVAC	Perform vehicle HVAC system diagnosis and testing to related tasks in the ASE Education Foundation Automobile Program Standards (AST) — Automobile Heating and Air Conditioning Task List (ASE Test A7)	
S2 Engine Performance	Perform vehicle engine performance diagnosis and testing to related tasks in the ASE Education Foundation Automobile Program Standards (AST) — Automobile Engine Performance Task List (ASE Test A8)	Snap-On Scan Tools
S3 Vehicle Body Electrical Diagnosis	Perform vehicle body electrical diagnosis and testing to related tasks identified in the ASE Education Foundation Automobile Program Standards (AST) — Automobile Electrical/Electronic Systems Task List (ASE Test A6)	DMM
S4 OSHA, EPA & Shop Safety	Demonstrate application of environment, health and safety knowledge in auto service situations to related OSHA section 1910 standards and EPA standards	
S5 Job Interview	Complete a mock job interview for an automotive service technology related position.	Contestant must bring 1. A printed copy of their resume. 2. Clearly and completely filled out job application (HERE is a copy of the job application)
S6 Electrical/Electronic Circuit Testing, Diag & Repair	Perform electronic circuit diagnosis, testing and wire repair to related tasks identified in the ASE Education Foundation Automobile Program Standards (AST) — Automobile Electrical/Electronic Systems Task List (ASE Test A6)	DMM

S7 Steering, Suspension & Wheel Alignment	Perform steering, suspension and wheel alignment to related tasks identified in the ASE Education Foundation Automobile Program Standards (AST) — Automobile Suspension and Steering Task List (ASE Test A4)	
S8 Manual Drivetrain & Axles	Perform manual drive train service, testing and diagnosis to related tasks identified in the ASE Education Foundation Automobile Program Standards (AST) — Automobile Manual Drive Train and Axles Task List (ASE Test A3)	
S9 Brake System Service	Perform brake service, testing and diagnosis to related tasks identified in the ASE Education Foundation Automobile Program Standards (AST) – Automobile Brakes Task List (ASE Test A5)	Micrometers, vernier calipers, dial indicators and other measurement instruments
S10 Automatic Transmission Service	Perform automatic transmission service, testing and diagnosis to related tasks identified in the ASE Education Foundation Automobile Program Standards (AST) — Automobile Automatic Transmission/Transaxle Task List (ASE Test A2)	
S11 Engine Repair	Perform engine measuring, inspecting, service and diagnosis on the head or block of an engine to related tasks identified in the ASE Education Foundation Automobile Program Standards (AST) — Automobile Engine Repair Task List (ASE Test A1)	Micrometers, vernier calipers, t-gauges and other measurement instruments
S12 Service Information	Locate specifications and other service information using electronic service information resources.	Computers will be available on location to access Pro-demand or Alldata
S13 Knowledge Performance	This ASE test will assess the student's technical knowledge of automobile diagnosis and repair in the vehicle system specialty areas of: <ul style="list-style-type: none"> • Engine Repair • Automatic Transmission/Transaxle • Manual Drive Train and Axles • Suspension and Steering • Brakes • Electrical/Electronic Systems • Heating and Air Conditioning • Engine Performance 	Computers will be available on location to administer ASE exam