



Automotive Service Technology



Date	February 24, 2024	Orientation Time	9:30 a.m. (OPEN to instructors) **See Schedule at end of document
Location	Columbus State Community College Automotive Lab Delaware Hall 499 Grove Street Columbus Ohio, 43215 PARKING: Permit or hourly payment may be required – TBD	Contest Time	Immediately following orientation (OPEN contest)
Scope of Contest	<ul style="list-style-type: none"> • The competition will include a series of workstations. Workstations may consist of a vehicle and/or simulators, components, service publications, and/or identification. • A variety of vehicles sold in the United States will be used in the competition. This could include both domestic and imported vehicles. • Safety, quality, ability to follow instructions and procedures, accuracy (in comparison with factory specifications), workmanship, and other skills representative of the trades identified by industry leaders will be judged. • A total of eight to ten stations will be assigned. Each station must be broken down into specific task criteria and separate steps based on the task. For example: <ul style="list-style-type: none"> ○ Station No. 1 Wire test and repair segments ○ Identify faulty circuit = x points ○ Repair condition = x points ○ Assemble/retest = x points ○ Resistor board tests = x points ○ Compare values to specs = x points ○ Workmanship = x points ○ Safety practices = x points • Time limits will be assigned for each task, but no bonus points will be awarded for early completion. <p><i>The following WILL NOT be tolerated and are grounds for disqualification from the competition:</i></p> <ul style="list-style-type: none"> • No cellphones in the contest area. • No contact with anyone outside of the contest area once the contest begins. • No inappropriate communication between contestants such as verbally degrading another contestant. • No cheating on any portion of the contest such as informing another contestant of the skills/test prior to competing. 		
Testing	Yes - the written exam may be from all ASE areas.		
Eligibility	1 contestant for every 50 paid members enrolled in program		
Clothing	Work Attire: Field specific work clothing required for the work environment or that matches the service conditions for the contest. This may include jeans if they are clean and professional looking and are accepted in the respective field (no holes or overly soiled pants). Work shoes or boots with a hard sole or anti-slip properties (steel toes may be required – refer to Provided by Contestant section		

	<p>below). Clothing should be as such that it will not get caught in moving equipment or power tools. School uniforms may be worn if they meet the above requirements with all identifiers covered. No hats should be worn in the contest area.</p> <ul style="list-style-type: none"> • Must wear safety glasses • If a contestant removes their safety glasses, they will receive a warning the first time. If they remove them a second time, they will receive a 10-point deduction for that station each time student removes safety glasses. • Contestants will be provided with identification numbers to be attached to their shirt at the contest site. 	
<p>Provided by Contestant</p>	<ul style="list-style-type: none"> • Professional Resumé – Typed Hardcopy • Emergency Medical Form (Contestants must have this to compete) • Safety Glasses • #2 Pencils • Digital Multi-meter • Safety equipment (glasses and hard soled shoes) ○ Scan Tool -- “Snap on Zeus will be furnished by the site or contestants may bring their own. The use of site furnished scan tool is recommended and may be required on some stations. If a contestant chooses to use their own scan tool, it should be updated to 2017 and be capable of communicating with a Domestic or Asian vehicle. NOTE: A global OBD2 scan tool may not provide all the information or perform the functional tests as required.” 	
<p>Contest Standards</p>	<p>Contest Skilled Performance Standards (from 2023-24 SkillsUSA National Technical Standards – please review for competencies included under each standard)</p> <p>AST 2.0 - Perform vehicle engine performance diagnosis and testing related to tasks in the <i>SkillsUSA National Tech Standards – Automobile Engine Performance Task List</i></p> <p>AST 6.0 - Perform electronic circuit diagnosis, testing, wire repair and construction related to tasks identified in the <i>SkillsUSA National Tech Standards – Automobile Electrical/Electronic Systems Task List</i></p> <p>AST 9.0 - Perform brake service, testing and diagnosis related to tasks identified in the <i>SkillsUSA National Tech Standards – Automobile Brakes Task List</i></p>	<p>Aligned ODEW Transportation Career Field Technical Content Standard Outcomes</p> <p>Outcome 12.2 Vehicle Inspection and Diagnosis</p> <p>Outcome 3.3 Ignition System Outcome 4.5 Electrical and Electronic Systems</p> <p>Outcome 4.2 Drum and Disc Outcome 4.4 Antilock Brakes</p>

	<p>AST 11.0 - Perform engine measuring, inspecting, service and diagnosis on the head, block or parts of an engine related to tasks identified in the <i>SkillsUSA National Tech Standards</i> – Automobile Engine Repair Task List</p>	<p>Outcome 3.1 Engine Cylinder Head and Block Assemblies</p> <p>Above Outcomes can be found in the following ODEW courses:</p> <p>177001 Ground Transportation: Engine and Powertrain 177002 Ground Transportation Electrical/Electronics 177009 Collision Electrical and Mechanical Systems 177031 Automotive Braking Systems</p>
<p>Schedule</p>	<p>9:15 -- 9:30 Arrival and Registration (please no early arrivals - contestants will have to wait in a classroom or outside.) 9:30 -- 9:45 Welcome and Orientation</p> <p>9:45 – 10:15 Written Test</p> <p>10:15 – 12:45 Hands-on contest (Depending on number of contestants) Announcement of winners – Approximately 20 minutes after hands on competition.</p>	