

2019 Region 5 Automotive Technology Contest Stations

Station	Station Description	Special Tools Provided
S1 HVAC	This station will utilize the 2017 NATEF MLR standards, Section 7 HVAC, Subsections A and B. This station will challenge the competitors on any of the standards within the subsections above.	
S2 Engine Performance	This station will utilize the 2017 NATEF MLR standards, Section 8 Engine Performance, Subsections A and B. This station will challenge the competitors on any of the standards within the subsections above.	Snap-On scan tool, compression test gauge, cylinder leak-down tester, vacuum gauge, spark plug socket
S3 Electrical Diagnosis	This station will utilize the 2017 NATEF MLR standards, Section 6 Electrical/Electronic Systems, Subsections A. This station will challenge the competitors on any of the standards within the subsections above.	Fluke Digital Multimeter
S4 Job Interview	Students demonstrate they can clearly and completely fill out a job application, communicate clearly and effectively and have appropriate professional behaviors during the job interview process.	Contestant must bring 1 printed copy of resume and completed job application to competition.
S5 Battery, Alternator and Starter	This station will utilize the 2017 NATEF MLR standards, Section 6 Electrical/Electronic Systems, Subsections B, C and D. This station will challenge the competitors on any of the standards within the subsections above.	Battery jump box, battery charger, Fluke Digital multimeter, charging system tester
S6 Electrical/Electronic Systems	This station will utilize the 2017 NATEF MLR standards, Section 6 Electrical/Electronic Systems, Subsections A. This station will challenge the competitors on any of the standards within the subsections above.	Fluke Digital Multimeter
S7 Electronic Service Information	This station will utilize the 2017 NATEF MLR standard: Research applicable vehicle and service information including vehicle service history, service precautions, and technical service bulletins.	Prodemand.com or Alldata.com
S8 Steering & Suspension	This station will utilize the 2017 NATEF MLR standards, Section 5 Suspension/Steering Systems, Subsections A, C and D. This station will challenge the competitors on any of the standards within the subsections above.	Hunter Alignment Machine, AUTEL TPMS tool

<p><u>S9</u> Brake Service & Diagnosis</p>	<p>This station will utilize the 2017 NATEF MLR standards, Section 5 Brakes System, Subsections A, C and D. This station will challenge the competitors on any of the standards within the subsections above.</p>	<p>Dial indicator, drum micrometer, outside micrometer</p>
<p><u>S10</u> Manual Drivetrain</p>	<p>This station will utilize the 2017 NATEF MLR standards, Section 3 Manual Drivetrain and Axels, Subsections A and D. This station will challenge the competitors on any of the standards within the subsections above.</p>	<p>Master ball joint/u-joint service tool set, seal puller, seal installer</p>
<p><u>S11</u> Automatic Transmission</p>	<p>This station will utilize the 2017 NATEF MLR standards, Section 2 Automatic Transmission and Transaxle, Subsections A and B. This station will challenge the competitors on any of the standards within the subsections above.</p>	
<p><u>S12</u> Engine Mechanical Service</p>	<p>This station will utilize the 2017 NATEF MLR standards, Section 1 Engine Repair, Subsections A, B and C. This station will challenge the competitors on any of the standards within the subsections above.</p>	
<p><u>S13</u> Written Test ASE</p>	<p>This 75 question written test will test the student's technical knowledge of automobile diagnosis and repair in the vehicle system specialty areas of:</p> <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 	<p>Test booklet, scrap paper, pencil and response system remotes/clickers.</p>