



**Automotive Service Technology  
(AST)**  
Transportation, Distribution, and Logistics

Skilled and Technical Sciences Contests

**State Qualifying Conference  
Contest Information**

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State Qualifying Event: Yes

National Contest: Yes

Participation: Individual

**Contest Description**

Competitors demonstrate their ability to perform jobs and skills based on the task list outlined by the National Institute for Automotive Service Excellence (ASE) and the National Automotive Technicians Education Foundation (NATEF). Workstations consist of on-vehicle, simulations, bench and component testing, and a written test. Competitors are judged on technical competency, accuracy, quality, safety and ability to follow directions.

Each conference is to have minimum of four (4) contest areas. Below are the stations that are to be performed. Regions have the option to choose up to three (3) more stations to as needed for their particular conference's needs.

**Mandatory Stations – Contest Max 2 hours**

**ASE Area 1 – Precision Measurement**

The student will complete precision US Standard and Metric measurements of vehicle components using Micrometers, Dial Indicators, Veneer Calipers, Feeler Gauges and Thread Gauges, recording the results in the proper system units.

**ASE Area 5 – Brakes**

The student will identify brake designs and components, perform rotor and drum diagnostic measurements with precision tools, and diagnose electrical function of brake assembly ABS components using a DVOM.

**ASE Area 8 – Engine Management**

The competitor will access vehicle Diagnostic Trouble Codes and PID/DLC data to diagnose a concern and answer questions about Engine Controls components.

**State Qualifying Exam**

Automotive Service Technology – Previously Completed

**Optional stations at each conference's discretion:**

- Alldata ESI
- Charging & Starting
- Electrical Circuits
- Evaporate Emissions
- Job Application & Interview
- Manual Drivetrain
- Predelivery Inspection
- Suspension and Steering

**Notes:**

Each station will require the student to read instructions and to wear proper safety equipment provided by the student. (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.)