

Commercial Truck Technology Competency Profile



STUDENT HAS:

- Effectively demonstrated and practiced shop and tool safety
- Earned 10 hour OSHA card
- Earned ASE student certification in Brakes
- Earned ASE student certification in Steering and Suspension
- Earned ASE student certification in Electrical
- Earned ASE student certification in Diesel Engine
- Earned ASE student certification in Inspection Maintenance and Minor Repair

STUDENT CAN:

- Perform basic mechanical shop skills
- Accurately measure using precision measuring tools
- Perform planned vehicle maintenance
- Locate vehicle technical information and specifications
- Perform engine oil and filter change
- Identify and service vehicle hoses, lines and tubing
- Service engine cooling system
- Service and tune-up a gasoline engine
- Set gasoline engine ignition timing
- Service and repair drive lines
- Service differential
- Change diesel fuel injector
- Check and set engine valves as needed
- Access and record vehicle diagnostic trouble codes
- Service and adjust diesel engine
- Inspect and service vehicle steering systems
- Check electrical circuits
- Read electrical schematic diagrams
- Service and replace batteries
- Remove and replace starter, inspect flywheel ring gear or flex plate
- Inspect and replace alternator drive belts
- Check and repair truck and trailer lighting systems
- Determine battery state of charge using open circuit voltage
- Troubleshoot and replace charging and cranking components
- Inspect and repair hydraulic brakes systems
- Service and repair vehicle air brakes
- Check and adjust brakes
- Inspect ABS brake system components
- Remove and replace hub piloted and/or stud-piloted wheels
- Inspect and repair vehicle suspension
- Service heating/air conditioning and refrigeration systems
- Perform TMC wheel bearing adjustment procedure