

District 1 Skills USA Competition
Diesel Equipment Technology Competition

Job 1... Electrical testing:

Use of Meters (digital Auto meter and or electronic electrical systems analyzer) to perform tests, methods and procedures for testing, interpretation and recording of readings, accuracy of test results, knowledge of amperes, voltage, and battery capacity. Evaluation will include use of tools and manuals, measurements, interpretation of specifications and accuracy.

- Load Test Battery
- Perform a Voltage drop test at starter motor: -DMM
- Performer Standard Alternator Output Test Using Remy BCT-200J

Job 2... Valve clearance and/or injection timing 4 Cycle Diesel engine

Methods and techniques for checking and adjusting valves and injectors will include use of tools and manuals, measurements, interpretation of specifications and accuracy.

Job 3... Adjust a Heavy-Duty pull type clutch:

Apply the proper procedures for adjusting a heavy- duty, pull-type clutch on a functional truck chassis. Evaluation will include use of tools and manuals, measurements, interpretation of specifications and accuracy.

- Adjust clutch brake squeeze
- Adjust clutch free play (Free Pedal)

Job 4... Measure and adjust front axle toe settings

Use a tram bar, scribe, and chalk to measure front axle toe and make an adjustment if necessary. Evaluation will include use of tools and manuals, measurements, interpretation of specifications and accuracy.

Questions and, or concerns:

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