



SkillsUSA 2011-12 District 10 Competition–Scope

Clarion County Career Center
447 Career Lane, Shippenville, PA 16214
January 16, 2012

Competition Title: *DIESEL TECHNOLOGY*

Clothing/Safety Requirements:

- **Blue jeans/work pants and work shirt
- No school names
- I.D. number will be provided
- All work clothes must be free of insignias/labels
- **Leather work boots only (no sneakers or shoes allowed)
- **Safety glasses
- **Pencil

(**Tools/Materials Supplied by Contestant)

Eligibility:

Registered Skills USA member enrolled in a Diesel program.
Students are required to have proof of training form and a one page resume.

Tools/Materials Supplied by the Contestant:

None

Equipment:

All tools and equipment will be provided by the Clarion County Career Center

Engine: 3406E Serial # SDP, Rockwell Front Differential, All hand tools and service manuals, Shop towels

Scope of Contest:

Students will be tested as follows:

Each event will be timed. The maximum amount of time for each task is indicated.

Students will be evaluated using the following criteria:

1. Safety.
2. Care and proper use of tools.
3. Job performance. (Amount of work done and the quality)
4. Personal appearance. (Clothes, shoes, eye protection)
5. Verbal terminology. (Diesel trade terminology)
6. Neatness and Accuracy.

The contest will be divided into three areas. Follow industry standards for safety.

The following general shop safety rules will be followed:

- Safety glasses must be worn at all times when in the work area.
- No loose clothing is permitted.
- Long hair must be tied behind the head or netted
- Any liquid or grease spilled must be cleaned up immediately and reported to the judge.
- All injuries, no matter how slight, must be reported immediately to the judge.

Contest Competencies

1. **2.41** Remove and Install electronic unit injector and all related components.
 - a. Contestants will be required to remove and install an EUI from an engine, removing and installing all related parts - 1 Hour
2. **3.19** Check and interpret ring gear tooth contact pattern; determine action; if necessary make adjustments - 20 minutes
3. Knowledge Test on diesel content - 80 questions covering; Engines, Brakes, Drive Train, Electrical, Transmissions, and Chassis. Reference - Heavy Duty Truck Systems, 4th edition by Norman, Bennett, and Corinchock, Delmar Thompson Publisher - 1 hour

Contact information:

Don Doverspike - Diesel Technology Instructor
Clarion County Career Center
447 Career Lane, Shippenville, PA 16254
814.226.4391 Ext. 133
ddoverspike@clarioncte.org