



Pennsylvania - District 2
Education . . . with a competitive side

DIESEL EQUIPMENT TECHNOLOGY



Clothing Requirements

Official SkillsUSA light blue work shirt and navy pants, black or brown leather work shoes, and safety glasses with side shields or goggles. (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.)

Note: At the district level if a student is not able to wear the official SkillsUSA attire he/she may wear an outfit that would be acceptable in their specific field of study. *Please keep in mind that official SkillsUSA attire will be required at the state and national level.*

Eligibility

Open to active SkillsUSA members enrolled in programs with diesel equipment technology as the occupational objective.

Safety

Students will adhere to general shop practices and have safety glasses and a proper uniform (with no school name on it), and work boots.

Equipment and Materials: Supplied by host school:

1. Supplied by the technical committee: materials, supplies and equipment

Equipment and Materials: Supplied by contestant:

1. All students must have a one-page, typewritten résumé

Scope of the Contest – (Defined by the National Competition Regulations)

(District Competitions are meant to be a scaled down version of National Competition. It is important for the students to participate in a competition that will reflect a cross-section of the industry skills needed to prepare them for the state and national levels)

Knowledge Performance

The contest will include a written knowledge exam to assess knowledge of electrical principles used in diesel technology.

Skill Performance

The contest will include a series of stations where students will service and repair large diesel engines, brakes, drive trains, charging and starting system.

Contest Guidelines

Competitor will have to do the following:

1. Brakes-student will R&R and inspect S-cam brake system and adjust wheel bearing to TMC specs.
2. Engine-students will adjust the valves and injectors on a Detroit series 60 DDEC 2.
3. Electrical-students will check the battery, charging, and starting system on a running engine.

Diesel Rating Sheet

Items Evaluated	Possible Points	Competitor Points
Written Test	25	
Station 1	25	
Station 2	25	
Station 3	25	
Safety Penalty	-1 for each infraction	
Total	100	

Note: No cell phones or other electronic devices may be used at any time during a competition; this includes using a calculator function on a cell phone for competitions in which calculators are permitted.