

Incoming Diesel Heavy Equipment Students – 2024-2025

1. The following safety equipment is required when you begin the program:

Steel toe safety shoes (Must be worn in shop at all times)

2. The following safety equipment is required for WELD214W Arc Welding & Cutting Processes:

<u>Required Personal Protective Equipment (PPE)</u>	<u>Estimated Cost</u>
• Welding Jacket	\$95.00
○ Flame Retardant material required, Leather is recommended	
• Safety Glasses clear lens with side shield ANSI Z87+	\$2.00
○ Two per semester	
• Safety Toe Work Boots	\$50.00
○ Composite or Steel Toe	
• Auto Darkening Welding Hood	\$100.00
○ Extra lenses and batteries	
• Welding Cap/Beanie	\$5.00
• Leather MIG/SMAW Gloves	\$20.00
• Flashlight	\$10.00

**** PPE items generally need to be replaced, as they wear and become damaged****

****Students must have all the above listed equipment before they will be permitted to enter the lab environment****

3. The following list of hand tools Are Not Required to participate in the Diesel Heavy Equipment Program. We have included the tool list (below) because they are recommended to purchase before entering the workforce:

Combination wrench set; 12-point, metric 8 - 22mm

3/8 Drive metric shallow 12-point sockets; 8-19mm, tray or rail to organize sockets

3/8 Drive metric deep 6-point sockets; 8-19mm, tray or rail to organize sockets

1/2 drive metric shallow 12-point sockets; 10 - 24mm, tray or rail to organize sockets

1/2 drive metric deep 6-point sockets; 12 - 24mm, tray or rail to organize sockets

Allen / Hex bit; metric 4 - 19mm, 1/4 and/or 3/8 drive, tray or rail to organize sockets

Allen / Hex wrench set; L-shape, metric 1.5 - 10 mm

Allen / Hex folding wrench combination set; Hex 2 - 8mm

Combination wrench set; 12-point, fractional 3/8" - 1 1/4"
3/8 Drive fractional shallow 12-point sockets; 1/4" - 7/8", tray or rail to organize sockets
3/8 Drive fractional deep 6-point sockets; 1/4" - 7/8", tray or rail to organize sockets
1/2 drive fractional shallow 12-point sockets; 3/8" - 1 1/8", tray or rail to organize sockets
1/2 drive fractional deep 6-point sockets; 1/2" - 1 1/8", tray or rail to organize sockets
Allen / Hex bit; fractional 1/16" - 3/8", 1/4 and/or 3/8 drive, tray or rail to organize sockets
Allen / Hex wrench set; L-shape, fractional .050" - 3/8"
Allen / Hex folding wrench combination set; Hex .050 - 3/16"

3/4 drive fractional shallow 12-point sockets; 1 1/16"- 1 7/8", tray or rail to organize sockets

Torx Bit Set; T8 - T55, 1/4 and/or 3/8 drive, tray or rail to organize sockets

Adjustable wrench; 10"

Drive adapter; 3/8" female to 1/4" male

Drive adapter; 3/8" female to 1/2" male

Drive adapter; 1/2" female to 3/8" male

Drive adapter; 1/2" female to 3/4" male

Extension, 3/8 drive; (ranging from 1 1/2" - 11" long)

3/8 drive ratchet; standard handle

3/8 drive breaker bar; 10" long

Extension, 1/2 drive; (ranging from 2" - 11" long)

1/2 drive ratchet; standard handle

1/2 drive breaker bar; 18" long

Extension, 3/4 drive; (ranging from 3" - 8" long)

3/4 drive ratchet; standard handle

3/4 drive breaker bar; 20" long

Flat tip screwdriver; .032" tip, approx. overall length 7"

Flat tip screwdriver; .050" tip, approx. overall length 11"

Flat tip screwdriver; .055" tip, approx. overall length 14"

Standard PHILLIPS® screwdriver; #1

Standard PHILLIPS® screwdriver; #2

Diagonal cutter; 7"

Needle nose pliers; 8"

Combination slip-joint pliers; 7"

CHANNELLOCK® adjustable joint pliers; 10"

Scribe / seal pick

Steel Rule; 6" stainless steel

LED Flashlight

Center punch; 3/16" point, 6" long
Pin punch; 5/16" point, 5 1/4" long
Pin punch; 5/32" point, 5" long
Flat chisel; 3/8" edge, 5 1/2" long
Flat chisel; 3/4" edge, 7 1/4" long
Pinch bar; 20", tapered point on one end & angled chisel type edge on the other
Rolling head prybar; 16" tapered point on one end & rolling head on the other
VISE-GRIP®; locking, curved jaw w/wire cutter, 2 7/16" capacity
Ball peen hammer; 12 oz.
Soft face hammer; 24 oz.
Engineer hammer; 40 oz.
Putty Knife / Scraper; 1 1/4" blade width, stiff chisel type blade
Feeler gauge set; U.S./Metric, .0015" - .035"
Hacksaw; 12" (300mm) blade

Portable & lockable tool storage device that can contain all tools listed above

With any questions please contact:

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