

Diesel Hydraulics Technology Equipment/Tool List



Robert Rice, Instructor

Approximate Cost -2800-6100

The following tools are required for lab assignments throughout the two year program.

You may wish to purchase your tools once you are here through vendors visiting the campus the first week of school. You may, however, buy your tools from wherever you choose. Tools will be needed no later than the third week of classes.

You will need a computer that meets the following recommendations on page three ;

1. Allen Wrench Set Standard - .050 to 5/8"
2. Allen Wrench Set Metric – 2mm to 19mm
3. Chisel Set 5/16 Cape 3/8 5/8 3/4 Cold
4. Wrench Set Comb. Box/Open 5/16 to 1 1/4
6. Wrench Set Comb. Box/Open 6mm to 24mm
6. Multimeter Auto Ranging CAT III 1000 volt
8. Electrical Pliers (Crimper/Stripper)
9. Files - 10", 12" Fine
6", Coarse
6", 12" Half Round
10. Flare Nut Wrench Set - Standard 3/8 to 3/4
Metric 7mm-19mm
11. Safety Glasses with Side Panels OSHA App.
12. Hammers-16, 24, 48oz ball peen
13. Brass hammer 32 oz
14. Inspection Mirror
15. Magnetic Pick-up Tool
16. Electrical Wire Pliers
17. 12' Steel Measuring Tape, Mechanic's Steel
18. Ruler (Machinist Rule) 6 or 12 inch
19. Pliers - 6" Slip Joint
Needle Nose
Diagonal Cutters Side cutters
8" Vice Grip
Set of Snap Ring Pliers Internal & External
20. Punches – Pin 3/16-1/2
Starter 3/16-1/2
Aligning 1/4-5/8
10" Brass
Center punch
21. Gasket Scraper 1" Wide or Larger
22. Screwdrivers - Blade Type 1", 6", 9", 12"
Phillips Tip. 1" #1 and #2
6" #1 and #2
12" #3
Torx Set – T15, T20, T25, T30
T35, T40, T45, T50
Socket Set - 1/4" Drive
3/16 to 9/16 Standard (Shallow)
3/16 to 9/16 Standard (Deep)
4mm to 14mm Metric (Shallow)
4mm to 14mm Metric (Deep)
Extensions – 2", 4", 6", 8" Long
Ratchet Handle
Universal Joint
1/4 to 3/8 Adapter
24. 3/8 Drive Socket Set
1/4 to 15/16 Standard Shallow 12 Point
1/4 to 15/16 Standard Deep 6 Point
8mm to 19mm Metric Shallow 12 Point
8mm to 19mm Metric Deep 6 Point
Breaker Bar
Ratchet Handle

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| <p>25. 1/2 Drive Socket Set</p> <p style="padding-left: 40px;">3/8 to 1 1/4 Standard Shallow 12 Point
3/8 to 1 1/4 Standard Deep 6 Point</p> <p style="padding-left: 40px;">10mm to 28mm Shallow Metric 12 pt.
10mm to 28mm Deep Metric 6pt.
Universal Joint
Extensions 4",6",8",12</p> <p>3/8 and 1/2 Socket Sets may be
Chrome or Impact.</p> <p>26. 3/8in drive torque wrench 20-100 ft. lb.</p> <p>27. 1/2in drive torque wrench 50-250 ft. lb</p> | <p>28. Tire Depth Gauge, Depth Air Pressure Gauge
Truck type</p> <p>29. Rubber tipped air blow gun</p> <p>30. Roll head Pry Bar Set Small, Medium</p> <p>31. Feeler Gauge Set 005 to 60"</p> <p>32. Feeler Gauge Set 005mm to 070mm</p> <p>33. Wire Brush</p> <p>34. 3/8 drive air or battery ratchet</p> <p>35. Oil Filter Wrench-Small & Large or Strip Type</p> <p>36. 6" & 10" Adjustable Wrenches</p> <p>37. Tool Storage Box with Lock</p> |
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THE FOLLOWING ARE RECOMMENDED BUT NOT REQUIRED

1. Antifreeze Tester (Refractometer)
2. Tubing Cutter Framing Set
3. 7-Way Trailer Cord Tester or Test Light
4. Piston Ring Expander
5. Shop Coat or Overalls
6. 1/2 Drive, 1 5/16 and 1 1/2 Shallow Sockets
7. Hearing Protection
8. screwdriver type nut driver set standard
9. screwdriver type nut driver set metric

**NMCC NOR ITS INSTRUCTORS ARE RESPONSIBLE FOR
LOST TOOLS AND EQUIPMENT**



Notebook Computer Recommendations:

Estimated costs of the notebook computer will range from \$500-\$1,000 depending on the model and features preferred by the student.

Software:

- Windows 10 operating system
- Microsoft Office 365 or 2019 Professional (Word, Excel, Access, & PowerPoint)
 - Available for download through the college network (matriculating students only)
- Up-to-date antivirus

Hardware:

Minimum Requirements	Recommended Requirements
Intel i3 processor	Intel i7 processor
4GB or RAM	8GB of RAM
500GB Hard Drive	500GB SSD
Wireless networking	Wireless networking
Battery with at least 1.5 hours or runtime	Battery with at least 3.0+ hours or runtime
	DVD Drive

USB flash drive (for moving files)

We do not recommend:

- **Chromebook**
- **Mac**
- **Windows S mode laptops**