Diesel Technology Equipment List

November 2024



## Suggested Equipment List

### Safety Equipment

* Safety glasses and face shields
* Ear protection (earplugs or earmuffs)
* First aid kits
* Respirators and dust masks
* Steel-toe boots and gloves
* Hydraulic spill kits for oil and fuel cleanup
* Fire extinguishers

### Classroom Technology and Instructional Tools

* Projector or Interactive Whiteboard
* Computers or Tablets
* Document Camera
* Digital Presentation Tools
* Diagnostic Software
* Large and Small Engine Models
* Diagrams and Posters
* Sample Parts: Engine parts, fuel injectors, pistons, etc.

### Specialty Tools

* Diesel engine compression testers
* Fuel injection pressure testers
* Cylinder bore gauges
* Valve spring compressors
* Piston ring compressors and expanders
* Flywheel holding tools
* Diesel injector pullers
* Cooling system pressure testers

### Basic Hand Tools

* Wrenches (ratchet, box-end, open-end, adjustable, torque)
* Socket sets (standard and metric, deep and shallow)
* Screwdrivers (flathead, Phillips)
* Pliers (needle-nose, slip-joint, channel lock)
* Hammers (ball-peen, dead blow, rubber mallet)
* Allen/hex keys (standard and metric)
* Pry bars
* Files and chisels
* Tape measures and rulers

### Diagnostic and Testing Equipment

* Digital Calipers and Micrometers
* Multimeters for electrical testing
* Battery testers and chargers
* Engine oil pressure gauges
* Tool Calibration Equipment

### Lifting and Hoisting Equipment

* Hydraulic floor jacks
* Engine hoists and stands
* Jack stands

### Welding and Cutting Equipment

* MIG and TIG welders
* Oxy-acetylene cutting torches
* Welding masks, gloves, and protective clothing

### Air Tools and Pneumatic Equipment

* Impact wrenches and ratchets
* Air hammers and chisels
* Air compressors
* Air-powered sanders and grinders
* Blow guns and tire inflators

### Shop Equipment

* Workbenches with vises
* Parts washers and solvents
* Shop vacuums and air filtration systems
* Oil and fluid disposal containers
* Toolboxes and storage cabinets

### Engine Rebuild Equipment

* Valve seat grinders
* Piston hones and ring gap tools

### Training Engines and Simulators

* Training Engines
* Engine simulators for hands-on learning