

Diesel Program Cost Estimates
revised 9-11-13

Tool	Qty	Cost	Extension
Allen Wrench Set Standard .050" - 3/8" 7/16" – 1/2" (recommended)	4	\$57	\$228
Allen Wrench Set Metric 2mm – 12mm	4	\$11	\$44
Battery Nut Pliers	1	\$10	\$10
Battery Post Cleaner	2	\$17	\$34
Battery Terminal Adapter	2	\$15	\$30
Battery Terminal Clamp Puller	1	\$52	\$52
Chisels – Cold 5/8" , 3/4"	4	\$16	\$64
Combination Wrenches – Standard 3/8" – 1" up to 1 and 1/4 (recommended)	4	\$110	\$440
Combination Wrenches - , Metric 6mm – 19mm up to 24mm (recommended)	4	\$215	\$860
Digital Multimeter – minimum 10 meg. Ohms impedance	2	\$21	\$42
Electrical Pliers – Crimper/Stripper	2	\$27	\$54
Files and Handles 12" Fine , 12" Coarse , 12" Half Round	2	\$20	\$40
Flare Nut Wrench Set – Standard 3/8" – 3/4"	2	\$226	\$452
Flare Nut Wrench Set – Metric 7mm – 19mm	2	\$155	\$310
Flashlight	2	\$33	\$66
Goggles/safety glasses w/side panels – (per OSHA requirements) * one per student	20	\$6	\$120
Hack Saw	2	\$41	\$30
Hammers – Ball Peen 16oz. and 24oz.	2	\$28	\$56
Hammer – Soft Face	1	\$32	\$32
Hearing Protection – (per OSHA requirements) * one per student	20	\$1	\$20
Inspection Mirror	1	\$21	\$21
Magnetic Pickup Tool	1	\$20	\$20
Mechanic's Steel Ruler – Machinist Rule	1	\$15	\$15
Pliers – Adjustable Joint	4	\$30	\$120
Pliers – Locking Pliers	4	\$24	\$96
Pliers - Needle Nose	4	\$20	\$80
Pliers – Side Cutters	4	\$35	\$140
Pliers – Slip- joint	2	\$20	\$40
Punches Pin 3/16" – 3/8"	4	\$40	\$160
Punches Starter 3/16" – 3/8"	4	\$12	\$48
Punches Aligning Punch Set	4	\$12	\$48
Punches Brass punch	2	\$12	\$24
Punches Center punch	2	\$12	\$24
Screwdriver – Blade Type 1" , 6" , 9" , 12" , Offset	4	\$25	\$100

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Screwdriver – Phillips 1" #2	4	\$25	\$100
Screwdriver – Phillips 6" #1, #2	4	\$25	\$100
Screwdriver – Phillips 12" #3	4	\$25	\$100
Socket Set – 1/4" Drive 3/16" – 1/2" U.S. Standard Depth	4	\$40	\$160
Socket Set – 1/4" Drive 3/16" - 1/2" U.S. Deep	4	\$40	\$160
Socket Set – 1/4" Drive 4mm – 13mm Metric Standard Depth	4	\$40	\$160
Socket Set – 1/4" Drive 4mm - 13mm Metric Deep	4	\$40	\$160
Socket Set – 1/4" Drive Extensions – Short, Medium, and Long	4	\$40	\$160
Socket Set – 1/4" Drive Ratchet Handle	4	\$40	\$160
Socket Set – 1/4" Drive Universal Joint	4	\$40	\$160
Socket Set – 3/8" Drive 3/8" – 3/4" U.S. Standard Depth (12 point), Impact or Chrome	4	\$40	\$160
Socket Set – 3/8" Drive 3/8" – 3/4" U.S. Deep	4	\$40	\$160
(6 point), Impact or Chrome			
Socket Set – 3/8" Drive 10mm – 19mm Metric Standard Depth (6 point), Impact or Chrome	4	\$40	\$160
Socket Set – 3/8" Drive 10mm – 19mm Metric Deep (6 point), Impact or Chrome	4	\$40	\$160
Socket Set – 3/8" Drive Extensions – Short, Medium, and Long	2	\$40	\$80
Socket Set – 3/8" Drive Ratchet Handle	4	\$40	\$160
Socket Set – 3/8" Drive Universal Joint	4	\$40	\$160
Socket Set – 1/2" Drive 1/2" – 1 1/8" Shallow, Impact or Chrome	1	\$40	\$40
Socket Set – 1/2" Drive 7/16" – 1 1/8" Deep, Impact or Chrome	1	\$40	\$40
Socket Set – 1/2" Drive 13mm – 32mm Shallow, Impact or Chrome	1	\$40	\$40
Socket Set – 1/2" Drive 13mm – 32mm Deep, Impact or Chrome	1	\$60	\$60
Socket Set – 1/2" Drive Breaker Bar	1	\$40	\$40
Socket Set – 1/2" Drive Extensions – Short, Medium, and Long	1	\$40	\$40
Socket Set – 1/2" Drive Ratchet Handle	4	\$40	\$160
Socket Set – 1/2" Drive Universal Joint	2	\$40	\$80
Tape Measure (25')	1	\$10	\$10
Tire Tread Depth Gauge	1	\$20	\$20
Tire Pressure Gauge - Truck	1	\$20	\$20

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Tool Box	1	\$750	\$750
Wire Brush	6	\$7	\$42
General Lab Equipment			
Tool	Qty	Cost	Extension
Adjustable Wrenches – (up to 18")	2	\$15	\$30
Air Blow Gun-Rubber Tip (per OSHA requirements)	1	\$10	\$10
Air Ratchet Wrench – 3/8" Drive with Impact Socket Set Standard and Metric	1	\$150	\$150
Back Support Belt	6	\$30	\$180
Belt Tension Gauge	1	\$20	\$20
Cleaning Tank	1	\$20	\$20
Combination Wrench Set – 3/8" – 1 1/2" and 6mm – 24mm	2	\$40	\$80
Combination Wrench Set – 3/8" – 3/4" Offset (recommended)	1	\$40	\$40
Combination Wrench Set – 7mm – 15mm Offset (recommended)	1	\$40	\$40
Coolant Conditioner Test Kit (Test Strips)	1	\$20	\$20
Cooling System Pressure Tester	1	\$40	\$40
Creepers	4	\$40	\$160
Diagnostic Information Reader – PC or Data Scan Tool and Software	1	\$40	\$40
Dial Caliper – Standard and Metric	1	\$40	\$40
Dial Indicator Set – Magnetic Base	1	\$40	\$40
Drain Pans	2	\$40	\$80
Drill – 3/8" variable speed, reversible	1	\$50	\$50
Drill – 1/2" variable speed, reversible	1	\$50	\$50
Drill Bits – 1/16" – 1/2"	1	\$40	\$40
Extractor Set (broken bolt)	1	\$40	\$40
Face Shield	2	\$20	\$40
Feeler Gauge – Blade Type .005" - .050", .005mm - .070mm	1	\$15	\$15
Filter Wrenches – Small and Large	1	\$20	\$20
Fin Comb	1	\$20	\$20
Floor Jack	3	\$75	\$225
Funnels	2	\$75	\$150
Gear Oil Dispenser	1	\$75	\$75
Grease Gun	1	\$35	\$35
Grinder - Bench	1	\$35	\$35
Hammers – 48 oz. Ball Peen	1	\$15	\$15
Hammers – 24 oz. Brass	1	\$15	\$15
Hammers – 12lb. Hand Sledge	1	\$15	\$15
Hand Held Infrared Thermometer	1	\$15	\$15

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Hand Impact Driver Set	1	\$20	\$20
Heat Gun	1	\$150	\$150
Hydraulic Press – (minimum 20 ton)	1	\$450	\$450
Impact Wrenches – 1/2" Drive with Impact Sockets	1	\$250	\$250
Impact Wrenches – 3/4" Drive with Impact Sockets	1	\$300	\$300
Impact Wrenches – 1" Drive with Impact Sockets	1	\$350	\$350
Impact Universal Joints – 3/8", 1/2"	1	\$50	\$50
Jacks – (Bottle Style)	1	\$35	\$35
Lifting Chains	1	\$150	\$150
Lifting Eyes (sets)	4	\$50	\$200
Master Tire Gauge – for tire gauge calibration checks	1	\$50	\$50
Micrometer Set – Standard (0" – 6")	1	\$75	\$75
Micrometer Set – Metric (0mm – 150mm)	1	\$75	\$75
Micrometer – Inside (0" – 6")	1	\$50	\$50
Micrometer – Depth (0" – 6")	1	\$25	\$25
Oxy – Acetylene Torch Set	1	\$350	\$350
Pliers – Snap Ring – internal	2	\$20	\$40
Pliers – Snap Ring - external	2	\$20	\$40
Pliers – Wheel Weight	1	\$15	\$15
Portable Crane	1	\$800	\$800
Portable Hydraulic Ram – (minimum of 10 ton)	1	\$1,000	\$1,000
Pressure Gauge – (0 – 300 psi), (0 – 3000 psi)	1	\$10	\$10
Pry Bar Set	1	\$15	\$15
Pullers – Two Jaw Set	1	\$25	\$25
Pullers – Three Jaw Set	1	\$25	\$25
Refractometer – (Antifreeze Tester or Test Strips)	1	\$25	\$25
Safety (Jack) Strands – (minimum 10 ton)	4	\$25	\$100
Seal Puller	1	\$25	\$25
Socket Set – 3/4" Drive	1	\$40	\$40
Socket Set Allen Drivers Standard 3/16" – 1/2"	1	\$40	\$40
Socket Set Allen Drivers Metric 4mm – 12mm	1	\$40	\$40
Socket Set Axle Nut Socket	1	\$40	\$40
Socket Set Crows Feet Standard and Metric	1	\$40	\$40
Socket Set Torx Drivers T-15 thru T-55	1	\$40	\$40
Soldering Gun	1	\$40	\$40
Tap and Die Set – Standard and Metric	1	\$80	\$80
Thermometer	1	\$25	\$25

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Thread Chaser Set	1	\$20	\$20
Tire Cage	1	\$500	\$500
Tire Chuck – Truck	2	\$150	\$300
Torque Angle Gauge	1	\$150	\$150
Torque Multiplier with Adapters (optional)	1	\$150	\$150
Torque Wrenches – 3/8" Drive (0-150 lb. in.)	1	\$150	\$150
Torque Wrenches – 3/8" Drive (0-100lb. ft.)	1	\$150	\$150
Torque Wrenches – 1/2" Drive (0 – 250 lbs)	1	\$150	\$150
Torque Wrenches – 3/4" Drive (up to 600 lb. ft.)	1	\$150	\$150
Tubing Cutter/Flaring Set	1	\$150	\$150
Vacuum Gauge (or Vacuum Pump with Gauge)	1	\$150	\$150
Valve Core Replacement Tool (Tire)	1	\$150	\$150
Wheel Chocks	4	\$20	\$80
Wheel Dolly	1	\$100	\$100

Specialty Tools

Tool	Qty	Cost	Extension
Air Hammer with Chisels	1	\$77	\$77
Alignment Equipment Minimum to perform tasks	1	\$1,000	\$1,000
Drag Link Tool (Socket)	1	\$11	\$11
Flow Meter – Power Steering	1	\$123	\$123
Pitman Arm Puller	1	\$105	\$105
Tape Measure (50')	1	\$12	\$12
Tools, those required to check tandem alignment	1	\$573	\$573
Wheel Balancer, <u>or</u> means by which to determine out-of-balance	1	\$9,125	\$9,125
Bearing Packer (optional)	1	\$116	\$116
Bearing Race Installer	1	\$50	\$50
Brake Adjusting Gauge	1	\$35	\$35
Brake Bleeder	1	\$173	\$173
Brake Fluid Tester or Test Strips	1	\$80	\$80
Brake Lining Thickness Gauge	1	\$15	\$15
Brake Rotor (Disc) Guage	1	\$85	\$85
Brake Shoe Retaining Spring Tool	1	\$10	\$10
Brake Spring Tool (for Air or Hydraulic Type Brake System)	1	\$8	\$8
Disc Caliper Tool for Compressing Caliper Pistons	1	\$40	\$40
Drum Brake Gauge	1	\$154	\$154

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Method for removing asbestos contamination (Parts Cleaner) meeting EPA Standards	1		\$0
Seal Installers	1	\$1,298	\$1,298
Slack Adjuster Installation Index Tool (Template)	1	\$31	\$31
Battery Charger (200 AMP Minimum)	1	\$494	\$494
Battery Terminal Adapters	1		\$0
Die Type Terminal Crimper (recommended)	1	\$139	\$139
Capacitance Battery Tester	1	\$118	\$118
GMM Labscope or DMM with scope capability	1	\$1,630	\$1,630
Inductive (Clamp-on) Ammeter	1	\$43	\$43
Jumper Cable Set (Heavy-Duty)	1	\$40	\$40
Load Tester – Starting, Charging, and Battery (1,000 AMP Minimum)	1	\$350	\$350
Test Lead Kit	1	\$84	\$84
Terminal Repair Kits	1	\$62	\$62
Ball/Small Hole Gauges	1	\$153	\$153
Dial Bore Gauge or Telescoping Gauges	1	\$221	\$221
Diesel Compression Gauge with Adaptors	1	\$148	\$148
Engine Pre-Oiler	1	\$175	\$175
Engine Stands	1	\$4,250	\$4,250
Injector Removal Tool (s)	1	\$641	\$641
Liner Installer (universal)	1		\$0
Liner Puller (universal)	1	\$644	\$644
Manometer – (Water) or Magnehelic Gauge	1	\$270	\$270
Precision Straight Edge	1	\$51	\$51
Protrusion Gauge (Cylinder Liner Height)	1	\$352	\$352
Ring Compressor	1	\$25	\$25
Ring Expander(s)	1	\$20	\$20
Rod Bolt Protectors	1	\$43	\$43
Soft Jaw Vise	1	\$133	\$133
Valve Spring Compressor	1	\$35	\$35
Vibration Damper Puller	1	\$28	\$28