

Alabama CTE Equipment List

This list is based on a classroom size of 25 students and meets minimum standards. All costs are estimated. No specific equipment vendor or brand names are endorsed, but school districts should consult with stakeholders to ensure industry-recognized equipment and software are purchased. The intent of this list is to provide school districts with guidance on the equipment needed to cover the state standards for a Diesel Technology program and are not meant to dictate the number of students that can safely fit in a classroom and/or laboratory.

Cluster: Transportation, Distribution and Logistics

Program: Diesel Technology

CLASSROOM EQUIPMENT

Total: \$11,300

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
5	Computer/device with Current Operating System	\$1,000	\$5,000
1	Copy Machine, own or have accessibility to use	\$500	\$500
3	Filing Cabinets	\$100	\$300
1	Industry related (simulation) software package	\$2,500	\$2,500
1	Laser Printer, color	\$500	\$500
1	Technology- LCD projector or TV/Computer connection and/or overhead projector with video streaming capability	\$2,500	\$2,500

PROGRAM EQUIPMENT (Items over \$250)

Total: \$16,860

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	40-gallon Part Cleaning Tank Kit	\$360	\$360
1	Bench Grinder	\$400	\$400
1	Cleaning/Chemical Cabinet (Lockable)	\$250	\$250
1	Diagnostic Information Reader (PC or Data Scan Tool and Software)	\$300	\$300
1	Engine Pre-oiler	\$350	\$350
1	Engine Stand	\$6,000	\$6,000
1	Fire Extinguisher (ABCK)	\$270	\$270
1	GMM Labscope or DMM with Scope Capability	\$350	\$350
1	Impact Wrench (1/2" Drive)	\$280	\$280
1	Injector Removal Tool	\$400	\$400
1	Liner Installer (Universal)	\$400	\$400
1	Manometer (Magnehelic Gauge-Water)	\$300	\$300
1	Micrometer (Inside-0"-6")	\$300	\$300
1	Portable Crane (8.2'-12.5', 4000lb Capacity)	\$2,000	\$2,000
1	Precision Straight Edge	\$300	\$300
1	Safety Strands (Jack: Minimum of 10 tons)	\$1,700	\$1,700

1	Soft-jaw Vice	\$400	\$400
1	Tire Cage	\$500	\$500
1	Wheel Balancer	\$2,000	\$2,000

Instructional Supplies (Items under \$250)

Total: \$21,345

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	1/8"-1/2" Full Ball Small Hole Gauge (4 Piece)	\$15	\$15
1	10' Hand Chain Hoist (1-ton 2200 lb. capacity)	\$100	\$100
1	25' Tape Measurer	\$25	\$25
4	300lb Max Mechanic Creeper	\$100	\$400
1	4-leg Chain Sling Kit (5/16" x 5')	\$130	\$130
1	52" 9-Drawer Rolling Tool Cabinet	\$250	\$250
2	Adjustable Joint Pliers	\$30	\$60
2	Adjustable Wrench Set (1" to 18")	\$50	\$100
1	Air Blow Gun with Rubber Tip (per OSHA Requirements)	\$20	\$20
1	Air Hammer with Chisels	\$80	\$80
1	Air Ratchet Wrench-3/8" Drive (with Impact Socket Set Standard and Metric)	\$45	\$45
1	Alignment Equipment	\$220	\$220
1	Asbestos Remover (Parts Cleaner-EPA Standards)	\$100	\$100
6	Back Support Belt	\$20	\$120
1	Battery Charger (200 AMP Minimum)	\$220	\$220
2	Battery Nut Pliers	\$15	\$30
4	Battery Terminal Adapters	\$15	\$60
1	Bearing Packet	\$60	\$60
1	Bearing Race Installer	\$30	\$30
1	Belt Tension Gauge	\$40	\$40
1	Bloodborne Pathogen Kit	\$50	\$50
5	Boxes of 8.5" x 11" Paper	\$40	\$200
1	Brake Adjusting Gauge	\$50	\$50
1	Brake Bleeder (Pressure or Vacuum)	\$250	\$250
1	Brake Fluid Tester or Test Strips	\$30	\$30
1	Brake Lining Thickness Gauge	\$70	\$70
1	Brake Roto (Disc) Gauge	\$160	\$160
1	Brake Shoe Retaining Spring Tool	\$20	\$20
1	Brake Spring Tool (Air or Hydraulic Type Brake System)	\$150	\$150
5	Brooms	\$10	\$50
1	Capacitance Battery Tester	\$50	\$50
2	Combination Wrench Set (3/8"-1 1/2" and 6mm-24mm)	\$135	\$270
1	Combination Wrench Set (3/8"-3/4" Offset, Recommended)	\$140	\$140
1	Combination Wrench Set (7mm-15mm Offset, Recommended)	\$200	\$200
1	Coolant Conditioner Test Kit (Test Strips)	\$80	\$80

1	Cooling System Pressure Tester	\$100	\$100
1	Dial Bore Gauge/Telescoping Gauge	\$50	\$50
1	Dial Caliper (Standard and Metric)	\$50	\$50
1	Dial Indicator Set-Magnetic Base	\$50	\$50
1	Die Type Terminal Crimper	\$50	\$50
1	Diesel Compression Gauge with Adapters	\$50	\$50
2	Digital Multimeter (Minimum 10 meg. Ohms Impedance)	\$160	\$320
1	Disc Caliper Tool for Compressing Caliper Pistons	\$20	\$20
1	Drag Link Tool (Socket)	\$20	\$20
2	Drain Pans	\$45	\$90
1	Drill (1/2" Variable Speed, Reversible)	\$250	\$250
1	Drill (3/8" Variable Speed, Reversible)	\$250	\$250
1	Drill Bits-1/16"-1/2"	\$140	\$140
1	Drum Brake Gauge	\$150	\$150
2	Dust Pans	\$10	\$20
10	Earmuffs	\$20	\$200
2	Electrical Pliers (Crimper)	\$40	\$80
2	Electrical Pliers (Stripper)	\$20	\$40
1	Extension Ladder	\$250	\$250
1	Extractor Set (Broken Bolt)	\$20	\$20
3	Eye Protection (Pack of 12)	\$15	\$45
2	Eye Rinse Stations	\$115	\$230
1	Feeler Gauge (Blade Type-.005" - .50" and .005mm-.070mm)	\$20	\$20
2	Files and Handles (12"-Coarse)	\$20	\$40
2	Files and Handles (12"-Fine)	\$20	\$40
2	Files and Handles (12"-Half Round)	\$20	\$40
1	Fin Comb	\$10	\$10
3	Fire Blankets (with Case)	\$100	\$100
1 per room	First Aid Kit	\$20	\$20
3	Flammable Material Storage Locker	\$200	\$600
2	Flare Nut Wrench Set (Metric 7mm-19mm)	\$50	\$100
2	Flare Nut Wrench Set (Standard 3/8"-3/4")	\$50	\$100
2	Flashlight	\$20	\$40
3	Floor Jacks	\$200	\$600
2	Floor Squeegee	\$20	\$40
1	Flow Meter (Power Steering)	\$50	\$50
2	Funnels	\$20	\$40
2	Garbage Can (with Casters)	\$75	\$150
1	Gear Oil Dispenser	\$110	\$110
As needed	Gloves (Disposable)	\$15	\$15
1	Hand Impact Driver Set	\$40	\$40
1	Hand-Held Infrared Thermometer	\$25	\$25
10	Hard Hat	\$50	\$500
10	Hard Hat Mount Earmuff (21 decibels)	\$40	\$400

1	Hazardous Skill Response Kit	\$50	\$50
1	Heavy Duty Grease Gun Kit (9000 psi and 24" Flex Hose)	\$50	\$50
1	Heavy Duty Heat Gun	\$50	\$50
1	Heavy Duty Heat Gun (1800-watt Dual Temperature)	\$70	\$70
1	Heavy Duty Jumper Cable Set	\$100	\$100
30	Heavy Duty Work Gloves (S-M-L)	\$20	\$600
1	Hydraulic Press (Minimum 20 Ton)	\$50	\$50
1	Impact Sockets (1/2" Drive 7/16" – 1 1/8")	\$70	\$70
1	Impact Sockets (1" Drive)	\$80	\$80
1	Impact Sockets (3/4" Drive)	\$200	\$200
1	Impact Universal Joints (3/8" and 1/2")	\$25	\$25
1	Impact Wrench (1" Drive with Impact Sockets)	\$250	\$250
1	Impact Wrench (3/4" Drive)	\$250	\$250
1	Inductive Ammeter (Clamp-on)	\$50	\$50
1	Inspection Mirror	\$15	\$15
1	Jack (Bottle Style)	\$50	\$50
4	Lifting Eyes (Sets)	\$40	\$160
1	Liner Puller (Universal)	\$200	\$200
1	Load Tester-Starting, Charging, and Battery (1,000 AMP Minimum)	\$200	\$200
4	Locking Pliers	\$20	\$80
1	Magnetic Pick-up Tool	\$30	\$30
1	Master Tire Gauge (For Tire Gauge Calibration Checks)	\$100	\$100
1	Mechanic Steel Ruler (Machinist Rule)	\$20	\$20
1	Micrometer (Depth-0"-6")	\$220	\$220
1	Micrometer Set (Metric-0mm-150mm)	\$70	\$70
1	Micrometer Set (Standard-0"-6")	\$70	\$70
2	Mop	\$20	\$40
1	Mop Bucket	\$50	\$50
4	Needle Nose Pliers	\$15	\$60
1	OSHA "Right to Know" Compliance Kit	\$100	\$100
1	Oxy-Acetylene Torch Set	\$140	\$140
1	Pitman Arm Puller	\$50	\$50
4	Pliers-Side Cutters	\$10	\$40
4	Pliers-Slip Joint	\$25	\$100
2	Pliers-Snap Ring (External)	\$20	\$40
2	Pliers-Snap Ring (Internal)	\$20	\$40
2	Pliers-Wheel Weight	\$25	\$50
1	Portable Hydraulic Ram (Minimum of 10 Ton)	\$100	\$100
1	Pressure Gauge (0-300psi and 0-3000psi)	\$20	\$20
1	Professional Soldering Gun Kit (260-watt/200w)	\$60	\$60
2	Protective Facial Shield	\$25	\$250
1	Protrusion Gauge (Cylinder Liner Height)	\$220	\$220
1	Pry Bar (Rolling Head)	\$40	\$40
1	Pry Bar (Straight)	\$30	\$30
1	Pullers (Three Jaw Set)	\$50	\$50

1	Pullers (Two Jaw Set)	\$80	\$80
1	Refractometer (Antifreeze Tester or Test Strips)	\$20	\$20
1	Ring Compressor	\$50	\$50
1	Ring Expander	\$100	\$100
1	Rod Bolt Protector Kit	\$50	\$50
4	Safety Can (Solvents, Rags, etc.)	\$100	\$400
4	Screwdriver (Blade Type-1", 6", 9", 12", Offset)	\$20	\$80
4	Screwdriver (Phillips 1" #2)	\$15	\$60
4	Screwdriver (Phillips 12" #3)	\$15	\$60
4	Screwdriver (Phillips 6" #1)	\$20	\$80
4	Screwdriver (Phillips 6" #2)	\$20	\$80
1	Seal Installers	\$120	\$120
1	Seal Puller	\$25	\$25
1	Slack Adjuster Installation Index Tool (Template)	N/A	N/A
1	Socket Set Allen Drivers (Metric 4mm-12mm)	\$50	\$50
1	Socket Set Allen Drivers (Standard 3/16"-1/2")	\$50	\$50
1	Socket Set Axle Nut Socket (12-point)	\$80	\$80
1	Socket Set Crows Feet (Standard and Metric)	\$60	\$120
1	Socket Set Torx Drivers (T-15-T-55)	\$50	\$50
1	Socket Set-1/2" (Drive Extensions-Short, Medium, and Long)	\$50	\$50
1	Socket Set-1/2" Drive 1/2"-1 1/8" (Shallow, Impact, or Chrome)	\$140	\$140
1	Socket Set-1/2" Drive 13mm-32mm (Deep, Impact, or Chrome)	\$140	\$140
1	Socket Set-1/2" Drive 13mm-32mm (Shallow, Impact, or Chrome)	\$140	\$140
1	Socket Set-1/2" Drive 7/16"-1 1/8" (Deep, Impact, or Chrome)	\$140	\$140
1	Socket Set-1/2" Drive Breaker Bar	\$15	\$15
4	Socket Set-1/2" Drive Ratchet Handle	\$20	\$80
2	Socket Set-1/2" Drive Universal Joint	\$50	\$100
4	Socket Set-1/4" (Drive Extensions-Short, Medium, and Long)	\$10	\$40
4	Socket Set-1/4" Drive 3/16"-1/2" (U.S. Deep)	\$50	\$200
4	Socket Set-1/4" Drive 3/16"-1/2" (US Standard Depth)	\$50	\$200
4	Socket Set-1/4" Drive 4mm-13mm (Metric Deep)	\$50	\$200
4	Socket Set-1/4" Drive 4mm-13mm (Metric Standard Depth)	\$50	\$200
4	Socket Set-1/4" Drive Ratchet Handle	\$20	\$40
4	Socket Set-1/4" Drive Universal Joint	\$30	\$120
1	Socket Set-3/4" Drive (6-point, 3/4" - 2")	\$200	\$200
2	Socket Set-3/8" (Drive Extensions-Short, Medium, and Long)	\$20	\$40
4	Socket Set-3/8" Drive 10mm-19mm (Metric Deep, 6-point, Impact or Chrome)	\$50	\$200

4	Socket Set-3/8" Drive 10mm-19mm (Metric Standard Depth, 6-point, Impact or Chrome)	\$50	\$200
4	Socket Set-3/8" Drive 3/8" – 3/4" (U.S. Standard Depth, 12-point, Impact or Chrome)	\$50	\$200
4	Socket Set-3/8" Drive 3/8"- 3/4" (U.S. Standard Depth, 6-point, Impact or Chrome)	\$50	\$50
4	Socket Set-3/8" Drive 3/8"-3/4" (U.S. Deep, 12-point, Impact or Chrome)	\$50	\$200
4	Socket Set-3/8" Drive Ratchet Handle	\$20	\$20
4	Socket Set-3/8" Drive Universal Joint	\$50	\$200
1	Tap and Die Set (Standard and Metric)	\$230	\$230
1	Tape Measure (50')	\$25	\$25
1	Terminal Repair Kit	\$40	\$40
1	Test Lead Kit	\$130	\$130
1	Thermometer	\$30	\$30
1	Thread Chaser Set	\$80	\$80
2	Tire Chuck (Truck)	\$40	\$40
1	Tire Pressure Gauge (Truck)	\$25	\$25
1	Tire Tread Depth Gauge	\$20	\$20
1	Tools for Alignment (Tandem)	\$20	\$20
1	Torque Angle Gauge	\$250	\$250
1	Torque Multiplier with Adapters	\$70	\$70
1	Torque Wrench-1/2" (Drive: 0-250lbs)	\$60	\$60
1	Torque Wrench-3/4" (Drive: Up to 600lbs./ft)	\$230	\$230
1	Torque Wrench-3/8" (Drive: 0-100lb./ft.)	\$60	\$60
1	Torque Wrench-3/8" (Drive: 0-150lb./in.)	\$60	\$60
1	Tubing Cutter/Flaring Set	\$40	\$40
100	Uncorded Ear Plugs	\$15	\$15
1	Vacuum Gauge (Vacuum Pump with Gauge)	\$30	\$30
1	Valve Core Replacement Tool (Tire)	\$30	\$30
1	Valve Spring Compressor	\$60	\$60
1	Vibration Damper Puller	\$70	\$70
4	Wheel Chocks	\$60	\$240
4	Wheel Dolly	\$200	\$800

OPTIONAL EQUIPMENT

ITEM DESCRIPTION
Diesel Virtual Simulator

Category Totals:

Classroom Equipment	\$11,300
Program Equipment	\$16,860
Instructional Supplies	\$21,345
Estimated Program Total	\$49,505