

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 Plumbing program and are not meant to dictate the number of students that can safely fit in a classroom and/or laboratory.

Cluster: Architecture and Construction Program: Plumbing

CLASSROOM EQUIPMENT

TOTAL: \$9,810

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
5	Computer/device with Current Operating System	\$1,000	\$5,000
4	File Cabinets	\$140	\$560
1	Laser Printer	\$500	\$500
25	Student Lockers	\$50	\$1,250
1	Technology- LCD projector	\$2,500	\$2,500

PROGRAM EQUIPMENT (Items over \$250)

TOTAL: \$34,150

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	Air Compressor (10hp Minimum)	\$1,200	\$1,200
2	Bottle Rack	\$450	\$900
1	Cleaning/Chemical Cabinet, locked	\$250	\$250
2	Drill Press (1HP-20')	\$250	\$500
1	Drop-head Die Threader Set	\$400	\$400
3	Fiberglass Step Ladder (12')	\$500	\$1,500
1	Hydraulic Pipe Bender	\$700	\$700
2	Oxy-Acetylene Kit with Regulators	\$300	\$600
1	Oxy-Acetylene Saddle Burner Pipe Beveling Machine	\$300	\$300
2	Pipe Rack	\$350	\$700
1	Pipe Threading Machine with Die Set	\$4,000	\$4,000
1	Pneumatic Pipe Beveler	\$1,600	\$1,600
1	Portable Air Compressor	\$400	\$400
1	Portable Power Drive	\$260	\$260
1	Rod Oven	\$300	\$300
4	Welding Accessories (SMAW, GTAW, MIG, and FCAW)	\$400	\$1,600
4	Welding Machine (300 AMP and AC/DC Power Source)	\$1,000	\$4,000
1	Worktable (Steel Top)	\$600	\$600

INSTRUCTIONAL SUPPLIES (Items under \$250)

TOTAL: \$19,810

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
3	2' Level	\$10	\$30
7	3-way Threader (1/2", 3/4", and 1" Head)	\$150	\$1,050
2	4' Level	\$20	\$40
8	Adjustable Pipe Stand	\$40	\$320
6	Adjustable Wrench (8", 10" and 12")	\$40	\$240
1	Air Gun	\$25	\$25
1	Air Hose (3/4 x 50')	\$60	\$60
2	Air Hose (3/8 x 50')	\$50	\$100
1	Air Wrench (3/8" Drive)	\$100	\$100
2	Aligning Dogs	\$60	\$120
1	Allen Wrench Set	\$30	\$30
15	Architect and Engineer Scale	\$10	\$150
2	Auger Drill Bit Set	\$75	\$150
3	Aviation Snip (Right, Left, and Straight)	\$50	\$150
7	Ball Peen Hammer (10 oz.)	\$15	\$105
7	Ball Peen Hammer (20 oz.)	\$20	\$140
2	Basin Wrench	\$25	\$50
7	Bench Vise	\$30	\$210
6	Bitt Brace	\$20	\$120
1	Bloodborne Pathogen Kit	\$50	\$50
1	Bolt-type Mechanical Plug (1 1/4" – 3")	\$25	\$25
1	Bow/Garden Rake	\$25	\$25
1	Box End Wrench Set	\$50	\$50
7	Brazing Goggles (Shade #5)	\$20	\$140
3	Brazing Torch (Assorted Sizes)	\$75	\$225
2	Caulking Iron (Assorted Sizes)	\$50	\$100
7	C-Clamp (Assorted Sizes)	\$50	\$350
2	Center Finder	\$40	\$80
6	Center Punch	\$10	\$60
1	Chain Come along	\$150	\$150
3	Chain Vise	\$40	\$120
5	Chain Wrench	\$20	\$100
3	Chalk Box	\$10	\$30
3	Channel Lock Pliers	\$15	\$45
2	Circular Saw	\$75	\$150
7	Claw Hammer	\$20	\$140
2	Closet Auger	\$30	\$60
1	Cold Chisels (Assorted Sizes)	\$40	\$40
3	Combination Square	\$15	\$45
15	Compass	\$10	\$150
1	Compound Leverage Wrench	\$25	\$25
4	Crow/Ripping Bar	\$15	\$60
2	Cylinder Cart	\$100	\$200

4	Drawer Cabinet (with Casters)	\$200	\$800
2	Drift Pins	\$5	\$10
1	Drop Light	\$25	\$25
1	Dry Wall Screw-gun	\$150	\$150
200	Ear Plugs	.50	\$100
2	Elbow Welding Clamp	\$50	\$100
7	Electric Angle Grinder (4 ½")	\$75	\$525
2	Electric Angle Grinder (8")	\$150	\$300
2	Electric Drill Variable/Reverse (3/8")	\$40	\$80
2	Electric Drum-type Drain Cleaner	\$30	\$60
1	Electric Hammer-type Drill (1/2")	\$150	\$150
2	Electric Reverse/Reverse Drill (1/2")	\$75	\$150
1	End Grinder	\$150	\$150
1	Extension Handle	\$20	\$20
30	Eye Protection (Pack of 15-OSHA Standard)	\$30	\$60
1	Eyewash Station	\$30	\$30
7	Face Shield	\$10	\$70
1	Fiberglass Extension Ladder (20')	\$200	\$200
3	Fiberglass Step Ladder (6')	\$220	\$660
3	Fiberglass Step Ladder (8')	\$250	\$750
1	Fiberglass Utility Probe	\$20	\$20
3	Fire Blankets (with Case)	\$100	\$100
1	Fire Extinguisher (ABCK)	\$200	\$200
1	Flameless Soldering Tool	\$20	\$20
3	Flammable Material Storage Locker	\$200	\$600
1	Flange Spreader	\$50	\$50
1	Flange Welding Clamp	\$75	\$75
4	Flare Tool Set	\$30	\$120
4	Flashback Arresters	\$20	\$80
7	Flat File Set	\$40	\$160
2	Flow Meter with Regulator	\$50	\$100
15	Folding Rule	\$10	\$150
2	Framing Level	\$30	\$60
6	Framing Square (16" x 24")	\$15	\$90
3	Framing Square (8" x 12")	\$10	\$30
1	Garden Hose (50' x ¾")	\$30	\$30
6	Geared, Ratchet, Lever-type Manual Benders (5/8 and 7/8 OD)	\$175	\$1,050
4	GFCI 14 Gauge Extension Cord (50')	\$75	\$300
7	Goggles	\$20	\$140
8	Hacksaw	\$20	\$160
7	Half-round Bastard Files (10" and 12")	\$50	\$350
2	Hammer-type Flaring Tool	\$50	\$100
1	Hand Pipe and Bolt Threaders	\$150	\$150
1	Hand Pump	\$50	\$50
2	Handle Puller (Faucet)	\$15	\$30

Equipment List aligns with the Alabama Architecture and Construction Course of Study Standards adopted in 2023

6	Handsaw	\$20	\$120
15	Hard Hats	\$25	\$375
1	Hazardous Skill Response Kit	\$50	\$50
1	Hi-Low Welding Gauge	\$25	\$25
1	Hoe	\$30	\$30
1	Hole-Hawg Drill (1/2")	\$150	\$150
1	Hydrostatic Hand Pump	\$120	\$120
2	Internal Wrench	\$20	\$40
1	Jig Saw	\$75	\$75
2	Joint Running Rope	\$20	\$40
7	Joint Slip Pliers	\$10	\$70
7	Keyhole Saw	\$20	\$140
2	Lead Pot	\$20	\$40
12	Lever Compression Tube Benders (1/4", 3/8", and 1/2")	\$30	\$360
3	Line Level	\$10	\$30
2	Linesman Pliers	\$20	\$40
1	Long Test Ball Plug (2" and 3")	\$25	\$25
1	Maddox	\$15	\$15
2	Manometer	\$100	\$200
1	Masonry Drill Bit Set (1/8" to 1/2")	\$60	\$60
1	Miter Box	\$20	\$20
2	Nail Puller	\$10	\$20
2	Needle Nose Pliers	\$15	\$30
1	NPT Tap and Die Set	\$50	\$50
1	Nut Driver Set	\$25	\$25
2	Offset Pipe Wrench Set	\$40	\$80
1	Open End Wrench Set	\$75	\$75
1	OSHA "Right to Know" Compliance Kit	\$100	\$100
2	Oxy-Acetylene Hose	\$75	\$150
2	Packing Extractors	\$10	\$20
1	Pedestal Grinder	\$125	\$125
2	PEX Tube Crimper	\$50	\$100
2	Pipe and Bolt Threading Dies	\$200	\$400
7	Pipe Clamp Set	\$75	\$525
6	Pipe Cutter (1/4" – 1 5/8")	\$50	\$300
6	Pipe Cutter (3/16" to 2")	\$30	\$180
1	Pipe Extractor Set	\$40	\$40
6	Pipe Jack Stand	\$50	\$300
6	Pipe Reamer (1 1/4" – 4")	\$50	\$300
1	Pipe Tap Set	\$50	\$50
3	Pipe Threading Machine Oiler	\$40	\$120
2	Pipe Tongs	\$25	\$50
1	Pipe Wedge Set	\$40	\$40
8	Pipe Wrench Set (10", 12", 18", and 24")	\$80	\$640
3	Pipefitter Square	\$50	\$150
3	Plumb Bob	\$10	\$30

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2	Plumber Ladle	\$20	\$40
6	Plumber Level	\$10	\$60
15	Plumber Roll	\$5	\$75
1	Pneumatic Angle Grinder (4 ½")	\$150	\$150
1	Portable Chop Saw	\$80	\$80
2	Portable Tri Stand Vise	\$225	\$450
1	Post Hole Digger	\$50	\$50
2	Propane Melting Furnace (with Regulator and Hose)	\$225	\$450
1	Propane Tank (10 lb.)	\$50	\$50
15	Propane Torch Kit	\$25	\$375
6	Punch	\$5	\$30
6	PVC Handsaw	\$15	\$75
1	Ratchet Handle	\$75	\$75
3	Ratchet PVC Pipe Cutter	\$10	\$30
2	Ratchet Threader Set with Assorted Dies (1/2" – 2")	\$225	\$450
2	Reciprocating Saw	\$150	\$300
2	Reseating Tool Set	\$20	\$40
4	Reverse Flow Safety Check Valve	\$20	\$80
1	Right Angle Drill (1/2")	\$150	\$150
7	Round File Set (Assorted Sizes)	\$40	\$280
2	Rubber Mallet	\$10	\$20
1	Saber Saw	\$60	\$60
4	Safety Can (Solvents, Rags, etc.)	\$100	\$400
1	Safety Harness with Shock Absorbing Lanyard	\$200	\$200
2	Screw Drill and Extractor Set	\$25	\$50
15	Screwdriver Set (Phillips and Standard)	\$50	\$700
3	Screw-in Type Flaring Tools	\$25	\$75
2	Seat Wrench	\$20	\$40
1	Self-feeding Bit Set	\$75	\$75
1	Sewer Line Plug (1 ¼" – 3")	\$30	\$30
1	Sewer Tape with Assorted Ends (50')	\$75	\$75
12	Sharpshooter Shovel	\$25	\$300
2	Sledgehammer (3 lb.)	\$15	\$30
2	Sledgehammer (8 lb.)	\$20	\$40
1	Socket Set (3/8" – 1")	\$75	\$75
2	Soil Pipe Cutter (1/8" – 1 ¼")	\$90	\$180
1	Spade Bit Set	\$90	\$90
1	Spanner Wrench	\$25	\$25
15	Spring Bender (1/2" – ¾")	\$30	\$450
3	Spud Wrench	\$25	\$75
15	Steel Tape (100')	\$50	\$750
15	Steel Tape (25')	\$25	\$375
8	Storage Locker	\$150	\$1,200
2	Straight-butt Welding Clamp	\$50	\$100

4	Strap Wrench	\$25	\$100
7	Striker	\$5	\$35
2	String Level	\$10	\$20
4	Swage Tool Set	\$25	\$100
1	Table-mounted Chop Saw	\$80	\$80
1	Test Ball Plug (1 ½", 2", and 3")	\$25	\$25
1	Test Gauge (0-150 PSI)	\$75	\$75
1	Test Gauge (0-350 PSI)	\$100	\$100
1	Test Removal Plate	\$20	\$20
1	Thread Gauge	\$10	\$10
2	T-Joint Welding Clamp	\$90	\$180
1	Toilet Plunger	\$20	\$20
15	Toolbox	\$30	\$450
8	Torpedo Level	\$10	\$80
1	Torque Wrench (60"/pound)	\$75	\$75
1	Transit and Leveling Rod	\$230	\$230
3	Tri-Square	\$10	\$30
3	Tri-Stand	\$75	\$225
12	Tube Bender (1/2")	\$30	\$360
12	Tube Bender (3/4")	\$30	\$360
15	Tube Brush (1/2")	\$5	\$75
15	Tube Brush (3/4")	\$5	\$75
7	Tube Cutter	\$15	\$105
6	Tube Reamer	\$10	\$70
1	Twist Bit Set	\$75	\$75
2	Two-hole Pin	\$75	\$150
3	Vice Grip Pliers (10"-12")	\$25	\$75
1	Voltmeter	\$75	\$75
3	Welder Chipping Hammer	\$10	\$30
3	Welder Wire Brush	\$10	\$30
8	Welding Gloves	\$10	\$80
7	Welding Shield	\$50	\$350
7	Welding Sleeve	\$40	\$280
2	Wheelbarrow	\$75	\$150
1	Wood Chisel Set	\$75	\$75
15	Work Gloves	\$5	\$75
6	Worktable (Frame Mock-up)	\$60	\$360
1	Worktable (Wood Top)	\$100	\$100
6	Wraparound	\$10	\$60
2	Yarning Iron	\$20	\$40
8	Yoke Vise	\$40	\$320

OPTIONAL EQUIPMENT/SUPPLIES

ITEM DESCRIPTION
CNC System
Simulator
Trainer

Category Totals:

Classroom Equipment	\$9,810
Program Equipment	\$34,150
Instructional Supplies	\$19,810
Estimated Program Total	\$63,770