

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 an Electrical 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: Electrical

CLASSROOM EQUIPMENT

TOTAL: \$9,600

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	Cleaning/Chemical Cabinet, locked	\$300	\$300
5	Computer with Current Operating System	\$1,000	\$5,000
3	File Cabinets	\$100	\$300
1	Industry related (simulation) software package	\$500	\$500
1	Laser Printer, color	\$500	\$500
1	Technology- LCD projector or TV/Computer connection and/or overhead projector with video streaming capability	\$3,000	\$3,000

PROGRAM EQUIPMENT (Items over \$250)

TOTAL: \$8,600

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
10	Arc-rated Flash Coverall Suit Kit	\$600	\$6,000
2	Power Fishing System	\$300	\$600
2	Power Puller	\$400	\$800
2	Threader (Hand-operated)	\$600	\$1,200

INSTRUCTIONAL SUPPLIES (Items under \$250)

TOTAL: \$26,861

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	10' Hand Chain Hoist (1-ton 2200 lb. capacity)	\$100	\$100
1	25' Tape Measurer	\$25	\$25
1	4-leg Chain Sling Kit (5/16" x 5')	\$130	\$130
2	Adjustable Wrenches (Up to 18")	\$80	\$160
1	Air Blow Gun with Rubber Tip (per OSHA Requirements)	\$20	\$20
1	Air Ratchet Wrench-3/8" Drive (With Impact Socket Set Standard and Metric)	\$100	\$100
2	Allen Wrench/Socket Set (Metric: 2mm-7mm, 10mm, and 12mm)	\$90	\$180
5	Architect Scale (Flat)	\$10	\$50
5	Architect Scale (Triangular)	\$10	\$50

2	Architectural Scale Ruler	\$10	\$20
5	Assorted Mechanical Anchors and Assorted Anchor Fastening Tools (Including Wedges, Studs, Sleeves, One-pieces, Hammer-drivers, Drop-ins, Expansion Shields, Various Types of Screws, Self-drilling Toggle).	\$100	\$500
5	Assorted Raceway Supports (Including		
5	Assorted Raceway Supports (Including straps, stand-off supports, framing channels, and beam clamps).	\$100	\$500
5	Assorted Screws (Including Wood Screws, Lag Screws and Shields, concrete/masonry screws, thread-forming and thread-cutting screws, deck screws, and drywall screws).	\$100	\$500
5	Assorted Thread Fastener (Including Bolts, Cap Screws, Studs, Machine Screws, Nuts, Washers, Special-threaded Fasteners, and Tie Wraps).	\$100	\$500
5	Assorted Types of Conduits (Including EMT, RMC, PVC, Aluminum, IMC, LFNC, and FMC).	\$100	\$500
5	Assorted Types of Conduit Fittings (Including Couplings, Bushings, Weatherproof Hubs, and offset Nipples).	\$100	\$500
3	Basket Grip	\$200	\$600
1	Bloodborne Pathogen Kit	\$50	\$50
25	Calculator	\$15	\$450
1	Chisel Holder	\$30	\$30
1	Chisel-5/16"	\$15	\$15
1	Chisel-Cold 3/4"	\$15	\$15
1	Chisel-Cold 3/8"	\$15	\$15
4	Chisels-Cold 3/4"	\$20	\$80
4	Chisels-Cold 5/8"	\$10	\$40
1	Claw Type Pick-up Tool	\$15	\$15
2	Combination Wrench Set (3/8"-1 1/2" and 6mm-24mm)	\$150	\$300
1	Combination Wrench Set (3/8"-3/4" Offset)	\$100	\$100
1	Combination Wrench Set (7mm-15mm Offset)	\$100	\$100
5	Conduit Body (Type C, Type L, Type T, and Type X)	\$100	\$500
10	Cutting Oil	\$15	\$150
1	Dial Caliper (Standard and Metric)	\$50	\$50
1	Drill (1/2" Variable Speed, Reversible)	\$100	\$100
1	Drill (3/8" Variable Speed, Reversible)	\$75	\$75
1	Drill (Hammer)	\$140	\$140
1	Drill (Pneumatic)	\$200	\$200
1	Drill Bit Kit (Fractional)	\$10	\$100
1	Drill Bit Kit (Lettered)	\$80	\$80
2	Drill Bit Kit (Masonry)	\$25	\$50
1	Drill Bit Kit (Metric)	\$50	\$50
1	Drill Bit Kit (Numbered)	\$40	\$40
1	Drill Bits-1/16"-1/2"	\$140	\$140
3	Drip Pan	\$100	\$300

10	Electrician Hand Tool Set	\$100	\$1,000
1	Extractor Set (Broken Bolt)	\$20	\$20
25	Facial Shield	\$15	\$375
25	Facial Shield Visor	\$10	\$250
1	Fiken Wrench Set (Standard .5"-1/2")	\$40	\$40
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
3	Fire Blankets (with Case)	\$100	\$100
1	Fire Extinguisher (ABCK)	\$200	\$200
10	Fish Tape	\$25	\$250
3	Flammable Material Storage Locker	\$200	\$600
2	Flare Nut Wrench Set (Metric 7mm-19mm)	\$40	\$40
2	Flare Nut Wrench Set (Standard 3/8"-3/4")	\$50	\$100
1	Grinder (Angle)	\$100	\$100
1	Grinding Wheel (25-pack)	\$40	\$40
5	Ground Fault Circuit Interrupter	\$50	\$250
1	Hack Saw	\$20	\$20
2	Hammer (14lb Sledge)	\$130	\$260
2	Hammer (16oz. Ball Peen)	\$30	\$30
1	Hammer (24oz. Brass)	\$90	\$90
1	Hammer (Dead Blow Plastic Mallet)	\$25	\$25
1	Hammer (Plastic Tip)	\$10	\$10
1	Hammer (Rubber Mallet)	\$15	\$15
5	Hand Bender	\$30	\$150
1	Hand Impact Driver Set	\$40	\$40
1	Hand Saw	\$15	\$15
25	Hard Hat (White)	\$20	\$500
25	Hard Hat Earmuff (21-decibel)	\$20	\$500
1	Hazardous Skill Response Kit	\$50	\$50
1	Heavy Duty Heat Gun (1800-watt Dual Temperature)	\$50	\$50
2	Hickey Bar	\$125	\$250
2	Impact Universal Joints (3/8" and 1/2")	\$20	\$200
1	Impact Wrench (1/2" Drive with Impact Sockets)	\$150	\$150
1	Impact Wrench (Pneumatic)	\$100	\$100
1	Inspection Mirror	\$15	\$15
1	Inspection Mirror	\$20	\$20
2	Junction Box	\$30	\$60
2	Ladder	\$200	\$400
1	Level (I-Beam)	\$20	\$20
1	Level (Torpedo)	\$10	\$10
4	Lifting Eyes (Sets)	\$40	\$160
1	Magnetic Pick-up Tool	\$28	\$28
5	Manual Wire Puller	\$25	\$125
1	Mechanic Steel Ruler (Machinist Rule)	\$20	\$20
10	Metallic Outlet Box, Device Cover, and Extension Ring	\$100	\$1,000

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

6	Nails (Assorted Kit)	\$30	\$180
10	Non-metallic Outlet Box, Device Cover, and Extension Ring	\$100	\$1,000
1	OSHA "Right to Know" Compliance Kit	\$100	\$100
1	Oxy-Acetylene Torch Set	\$140	\$140
1	Pick	\$45	\$45
5	Pipe Cutter	\$30	\$150
2	Pipe Vise	\$125	\$250
1	Pliers (Adjustable Joint)	\$20	\$20
1	Pliers (Combination-6")	\$10	\$10
1	Pliers (Hose Clamp)	\$45	\$45
1	Pliers (Locking Jaw)	\$20	\$20
1	Pliers (Needle Nose-6")	\$12	\$12
1	Pliers (Side-cutting)	\$10	\$10
1	Pliers (Slip Joint-Water Pump)	\$25	\$25
1	Pliers-Crimper/Stripper (Electrical)	\$20	\$20
1	Pliers-Snap Ring (External)	\$90	\$90
1	Pliers-Snap Ring (Internal)	\$90	\$90
1	Pliers-Wheel Weight	\$20	\$20
2	Plumb Bobs	\$100	\$200
1	Pneumatic Drill Whip	\$25	\$25
1	Pneumatic Nail Gun	\$200	\$200
1	Portable Hydraulic Ram (Minimum of 10 Ton)	\$100	\$100
1	Professional Soldering Gun Kit (260-watt/200w)	\$60	\$60
1	Pry Bar (Rolling Head)	\$40	\$40
1	Pry Bar (Straight)	\$30	\$30
2	Pull Box	\$30	\$60
5	Pull Line	\$50	\$250
1	Pullers (Three-jaw Set)	\$50	\$50
1	Pullers (Two-jaw Set)	\$80	\$80
1	Punch Kit (Pin: 1/8", 3/16", 1/4", and 5/16")	\$25	\$25
1	Punch Kit (Taper: 3/8", 1/2", and 5/8")	\$40	\$40
1	Punches (Aligning Punch Set)	\$20	\$20
1	Punches (Brass Drift)	\$40	\$40
1	Punches (Brass Punch)	\$70	\$70
1	Punches (Center Punch)	\$30	\$30
1	Punches (Center)	\$30	\$30
1	Punches 3/16"-3/8"	\$25	\$25
1	Punches Starter 3/16"-3/8"	\$25	\$25
5	PVC Heating Unit and Plug Set		
5	Reamer	\$15	\$75
5	Reel Cart	\$100	\$500
2	Rodder	\$120	\$240
10	Rulers (Steel-15in)	\$7	\$70
4	Safety Can (Solvents, Rags, etc.)	\$100	\$400
1	Saw (Circular)	\$150	\$150

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1	Saw (Compound Miter)	\$250	\$250
1	Saw (Reciprocating)	\$100	\$100
1	Saw (saber)	\$50	\$50
1	Scraper (Carbon 1")	\$10	\$10
1	Scraper (Gasket 1")	\$5	\$5
4	Screwdriver (Blade Type-1", 6", 9", 12", Offset)	\$20	\$80
1	Screwdriver (Impact Driver Set)	\$40	\$40
4	Screwdriver (Phillips 1" #2)	\$14	\$56
4	Screwdriver (Phillips 12" #3)	\$10	\$40
4	Screwdriver (Phillips 6" #1, #2)	\$10	\$40
1	Screwdriver (Phillips Offset #2)	\$15	\$15
1	Screwdriver (Phillips: 12" #3)	\$15	\$15
1	Screwdriver (Phillips: 6" #1 and #2)	\$20	\$20
1	Screwdriver (Phillips: Stubby #1 and #2)	\$20	\$20
1	Screwdriver (Stubby: 6", 9", and 12" offset)	\$30	\$30
6	Screws (Assorted Kit)	\$30	\$180
5	Shop Towels (4 Packs of 6 Rolls)	\$75	\$375
1	Socket Set Allen Drivers (Standard 3/16"-1/2")	\$140	\$140
1	Socket Set Axle Nut Socket	\$80	\$80
1	Socket Set Crows Feet (Standard and Metric)	\$140	\$140
1	Socket Set Torx Drivers (T-15-T-55)	\$40	\$40
1	Socket Set-1/2" (Drive Extensions: 3', 6', and 12')	\$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	\$20
2	Socket Set-1/2" Drive Universal Joint	\$10	\$10
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	\$50
4	Socket Set-1/4" Drive Ratchet Handle	\$20	\$80
4	Socket Set-1/4" Drive Universal Joint	\$30	\$120
1	Socket Set-3/4" Drive	\$50	\$50
2	Socket Set-3/8" (Drive Extensions-Short, Medium, and Long)	\$40	\$80

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" - (U.S. Standard Depth, 6-point, Impact or Chrome)	\$50	\$200
4	Socket Set-3/8" Drive 3/8"-3/4" (U.S. Deep)	\$50	\$200
4	Socket Set-3/8" Drive Ratchet Handle	\$40	\$160
4	Socket Set-3/8" Drive Universal Joint	\$50	\$200
1	Square (Steel Combination)	\$20	\$20
1	Square (Steel Framing)	\$20	\$20
1	Square (Steel Rafter)	\$20	\$20
25	Tape Measurer	\$10	\$250
2	Toolbox	\$100	\$200
10	Torpedo Level		
1	Torque Angle Guage	\$250	\$250
1	Torque Multiplier with Adapters	\$80	\$80
1	Torque Wrench-1/2" (Drive: 0-250lbs)	\$60	\$60
1	Torque Wrench-3/4" (Drive: Up to 600lbs./ft)	\$80	\$80
1	Torque Wrench-3/8" (Drive: 0-100lb./ft.)	\$25	\$25
1	Torque Wrench-3/8" (Drive: 0-150lb./in.)	\$60	\$60
25	Uncorded Ear Plug	\$20	\$20
2	Utility Knives	\$10	\$20
5	Various Types of Respirators	\$20	\$100
2	Wire Cutters	\$10	\$20
5	Wire Grip	\$25	\$125
1	Wrench Kit (Metric-7mm-24mm)	\$50	\$50
1	Wrench Kit (Standard-1/4"-1 1/4")	\$120	\$120

OPTIONAL EQUIPMENT/SUPPLIES

ITEM DESCRIPTION
CNC System
Simulator
Trainer

Category Totals:

Classroom Equipment	\$9,600
Program Equipment	\$8,600
Instructional Supplies	\$26,861
Estimated Program Total	\$45,061