

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 Welding 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: Welding

CLASSROOM EQUIPMENT

TOTAL: \$8,560

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
1	Technology- LCD projector	\$2,500	\$2,500

PROGRAM EQUIPMENT (Items over \$250)

TOTAL: \$70,255

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	Air Carbon Arc Torch	\$2,000	\$2,000
1	Air Compressor	\$1,200	\$1,200
2	Band Saw	\$350	\$700
1	Burning Machine Track Torch	\$800	\$800
1	Burning Table	\$300	\$300
1	Cabinet Model Bead Blaster	\$450	\$450
1	Chop Saw	\$275	\$275
3	Combination SMAW/GTAW CC Machine	\$1,200	\$3,600
1	Cylinder Cart	\$900	\$900
1	Guided Bend Testing Machine (20 Ton)	\$275	\$275
1	Hydraulic Jack	\$300	\$300
1	Iron Worker (14" Blade)	\$500	\$500
1	Metal Lathe Machine (8.3" x 29.5")	\$1,230	\$1,230
4	Mig (GMAW) Power Source, Wire Feeder, and Gun	\$800	\$3,200
5	Oxyacetylene Outfit	\$320	\$1,600
2	Plasma Arc Cutting Machine	\$1,000	\$2,000
1	Portable Band Saw	\$275	\$275
12	Refrasil Heat Resistant Cloth	\$100	\$1,200
1	Rod Oven	\$300	\$300
15	SMAW Welder (AC/DC)	\$3,000	\$45,000
1	Steel Cabinet (16" x 48" x 84")	\$400	\$400
6	Steel for Shop Tables	\$250	\$1,500
1	Storage Box	\$300	\$300

4	Tig (GTAW) Machine	\$800	\$3,200
1	Welding Cable #1 (1K foot)	\$350	\$350

INSTRUCTIONAL SUPPLIES (Items under \$250)

TOTAL: \$17,312

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
5	Acetylene Cylinder	\$25	\$250
4	Adjustable Hacksaw Frame	\$30	\$120
1	Air Hose (25')	\$60	\$60
1	Anvil #110	\$100	\$100
1	Assorted Bit Set	\$100	\$100
4	Bar Clamp	\$50	\$200
1	Bench Grinder (6"-8")	\$175	\$175
1	Bloodborne Pathogen Kit	\$50	\$50
1	Box of 10 Acetylene Mild Steel Welding Rod (1/8" and 3/32")	\$50	\$50
1	Box of 100 Welding Rod 7014 (1/8")	\$100	\$100
1	Box of 1000 Ear Plugs	\$200	\$200
1	Box of 20 Aluminum Tig Rod (1/8" and 3/32")	\$30	\$30
1	Box of 250 Welding Rod 6010 (1/8")	\$225	\$225
1	Box of 250 Welding Rod 7018 (1/8")	\$225	\$225
1	Box of 5 Brass Welding Rod (1/8")	\$30	\$30
2	Box of Tungsten Electrodes (1/8"-3/32", 100% and 2%)	\$80	\$160
5	Boxes of 8.5" x 11" Paper	\$40	\$200
20	Burning Goggle	\$20	\$400
20	C-Clamps (8")	\$10	\$200
6	Center Punch	\$12	\$72
20	Chipping Hammer	\$20	\$400
6	Combination Square Set	\$25	\$150
2	Creeper	\$75	\$150
2	Crowbar	\$25	\$50
1	Drafting Table (20" x 36" x 30")	\$250	\$250
2	Dust Pans	\$10	\$20
6	Extension Cord (3-watt, 12-gauge, 50')	\$30	\$180
5	Face Shield with Polycarbonate Shield	\$30	\$150
10	File Kit (Flat and Half Round)	\$20	\$200
20	Fillet Weld Gauge	\$50	\$1,000
3	Fire Blankets (with Case)	\$100	\$100
1	Fire Extinguisher (ABCK)	\$200	\$200
3	Flammable Material Storage Locker	\$200	\$600
2	Floor Grinder	\$150	\$300
1	Floor Jack (2-12 Ton)	\$150	\$150
2	Floor Squeegee	\$20	\$40
20	Full Face Shield	\$10	\$200
2	Garbage Can (with Casters)	\$75	\$150

1	Grease Gun	\$40	\$40
12	Hacksaw with Blade (12")	\$30	\$360
3	Hand Grinder/Grinding Disc	\$90	\$270
1	Hazardous Skill Response Kit	\$50	\$50
1	High Pressure Argon Gas Cylinder (244 cu. ft.)	Market Price	Market Price
1	High Pressure C25 Gas Cylinder (244 cu. ft.)	Market Price	Market Price
4	Jack Stand	\$125	\$500
3	Level (2')	\$25	\$75
3	Machinist Vise (5")	\$40	\$120
2	Magnifying Glass	\$25	\$50
3	Metal Chisel Set	\$40	\$120
2	Metal Scribe	\$10	\$20
2	Mop	\$20	\$40
1	Mop Bucket	\$50	\$50
12	Needle Nose Plier Set	\$15	\$180
1	Needle Scaler	\$130	\$130
1	Nut Driver Set	\$50	\$50
1	OSHA "Right to Know" Compliance Kit	\$100	\$100
1	Oxyacetylene Tip Cleaner	\$10	\$10
5	Oxygen Cylinder	\$25	\$250
1	Pack of 50 Grinding Disc (7750 RPM)	\$60	\$60
3	Phillips Screwdriver Set	\$70	\$210
1	Pipe Cutter (2")	\$200	\$200
1	Pipe Fitter Square	\$50	\$50
20	Plier Set	\$15	\$300
1	Power Drill Press (1/2")	\$300	\$300
2	Protractor	\$15	\$30
2	Pry Bar (2' Minimum)	\$25	\$50
1	Reversible Electric Drill (1/2")	\$200	\$200
4	Safety Can (Solvents, Rags, etc.)	\$100	\$400
6	Shop Hammer (16 oz.)	\$20	\$120
6	Shop Hammer (18 oz.)	\$25	\$150
5	Side Grinder (7"-9")	\$175	\$875
1	Spool of 100 ft, of Flux-Cored Wire	\$30	\$30
1	Spool of 200 ft. of Mig Wire (.035)	\$50	\$50
3	Standard Screwdriver Kit	\$70	\$210
1	Steel Stamp Set (Letters and Numbers)	\$130	\$130
3	Storage/Filing Cabinet	\$100	\$300
1	Tap and Die Set (Standard or Metric)	\$100	\$100
20	Tape Measurer (30')	\$30	\$600
5	Tig Torch Tungsten Electrode	\$40	\$200
1	Transfer Binder Chain (3/8" x 10')	\$75	\$75
1	Ventilation Fan	\$150	\$150
1	VSR Reversible Electric Drill (3/8")	\$200	\$200

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

20	Welding Apron	\$40	\$800
25	Welding Curtain	\$20	\$500
20	Welding Gloves (Small, Medium, and Large)	\$15	\$300
20	Welding Lense (Colored)	\$20	\$400
20	Welding Shield with Extra Lense (Clear/Dark)	\$10	\$200
2	Wheelbarrow	\$100	\$200
20	Wire Brush	\$10	\$200
10	Wire Cutter Set	\$15	\$150

OPTIONAL EQUIPMENT/SUPPLIES

ITEM DESCRIPTION
CNC System
Simulator
Trainer

Category Totals:

Classroom Equipment	\$8,560
Program Equipment	\$70,255
Instructional Supplies	\$17,312
Estimated Program Total	\$96,127