

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

Cluster: Manufacturing

Program: Industrial Maintenance Mechanical

CLASSROOM EQUIPMENT

TOTAL: \$11,175

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	File Cabinets	\$100	\$300
3	File Sets	\$25	\$75
1	Industry related (simulation) software package	\$2,500	\$2,500
1	Laser Printer, color	\$300	\$300
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: \$32,920

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	Cleaning/Chemical Cabinet, locked	\$250	\$250
1	DCS Trainer	\$3,000	\$3,000
2	Drill Press	\$300	\$600
5	Fairchild mA Simulator	\$1,500	\$7,500
1	Fire Extinguisher (ABCK)	\$270	\$270
10	Moore Regulators	\$1,000	\$10,000
1	Pipe Thread Machine	\$2,500	\$2,500
2	Rolling Tool Cabinet	\$750	\$1,500
1	Table Saw	\$500	\$500
2	Tool Cabinet	\$500	\$1,000
2	Tool Chest	\$400	\$800
1	Welding Machine (AC/DC)	\$2,000	\$2,000
6	Worktable	\$500	\$3,000

INSTRUCTIONAL SUPPLIES (Items under \$250)

TOTAL: \$36,200

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
5	4-20 Milliamp Transducers	\$25	\$125

6	Back Support Belt	\$20	\$120
1	Belt Tension Gauge	\$40	\$40
1	Bloodborne Pathogen Kit	\$50	\$50
5	Broom	\$10	\$50
1	Cleaning/Chemical Cabinet, locked	\$250	\$250
3	Combination Wrench Set	\$200	\$600
3	Combo Wrench Set (1/4" – 1 1/4")	\$200	\$600
6	Cordless Drill	\$200	\$1,200
2	Dead Blow Hammers (4 lb.)	\$30	\$60
3	Depth Micrometer	\$100	\$300
6	Dial Caliper (0 – 8")	\$100	\$600
1	Dial Indicator	\$100	\$100
5	Digital Gauge	\$100	\$500
12	Digital Multimeter	\$60	\$720
5	Digital Pressure Gauge	\$90	\$450
4	Drill Motor	\$100	\$400
3	Drive Socket Set (1/2")	\$100	\$300
3	Drive Socket Set (1/4")	\$50	\$150
1	Drive Socket Set (3/4")	\$100	\$100
2	Dust Pans	\$20	\$40
10	Earmuff	\$20	\$200
2	Electric Drill	\$100	\$200
3	EMT Benders	\$150	\$450
3	Extension Cord (50 ft.)	\$25	\$75
1	Extension Ladder	\$250	\$250
3	Eye Protection (Pack of 12)	\$15	\$45
2	Eye Rinse Station	\$115	\$230
6	Feeler Gauge Set	\$40	\$240
3	Fire Blankets (with Case)	\$100	\$100
1 per room	First Aid Kit	\$20	\$20
3	Flammable Material Storage Locker	\$200	\$600
2	Flashlight	\$20	\$40
2	Floor Squeegee	\$20	\$40
4	Flow Meter	\$125	\$500
2	Full Body Safety Harness	\$150	\$300
2	Garbage Can (with Casters)	\$75	\$150
6	Gasket Cutter Tool (0 – 6")	\$80	\$480
12	Gate Valve (1")	\$80	\$960
12	Globe Valve (1")	\$100	\$1,200
As needed	Gloves, disposable	\$15	\$15
1	Grease Gun	\$40	\$40
6	Groove Joint Plier	\$25	\$150
1	Hammer Drill	\$200	\$200
4	Hand Flaring Tool	\$50	\$200
10	Hard Hat	\$50	\$500
10	Hard Hat Mount Earmuff (21 decibels)	\$40	\$400
1	Hazardous Skill Response Kit	\$50	\$50

30	Heavy Duty Work Gloves (S-M-L)	\$20	\$600
6	Hex Wrench Set	\$100	\$600
2	Impact Torch (1/2")	\$250	\$500
3	Inside Micrometer (0 – 8")	\$200	\$600
2	Lanyards	\$50	\$100
6	Large Diagonal Plier	\$20	\$120
1	Level Controller	\$200	\$200
5	Linear Control Valve (1")	\$200	\$1,000
5	Linear Valve Positioner	\$150	\$750
6	Locking Plier	\$25	\$150
3	Lockout Kit	\$75	\$225
4	Magnetic Flow Meter	\$75	\$300
6	Micrometers (0 – 1")	\$120	\$720
1	Mill Vise	\$100	\$100
5	Milliamp Simulator	\$80	\$400
8	Moore 4150 Regulator	\$180	\$1,440
2	Mop	\$20	\$40
2	Mop Bucket	\$50	\$100
6	Needle Nose Plier (45 degrees)	\$125	\$150
3	Open End Wrench Set	\$100	\$300
3	Open Tube Manometer	\$80	\$240
1	OSHA "Right to Know" Compliance Kit	\$100	\$100
3	Oxygen Regulator	\$150	\$450
3	Oxygen/Acetylene Torch and Hose	\$150	\$450
1	Parker O Ring Set	\$150	\$150
4	Pin Punch Set	\$25	\$100
6	Pipe Wrench (12")	\$75	\$450
12	Plug Valve (1")	\$90	\$1,080
6	Pressure Gauge (1 1/2")	\$90	\$540
6	Pressure Gauge (4 1/2")	\$100	\$600
2	Protective Facial Shield	\$25	\$250
2	Reciprocating Saw	\$150	\$300
1	Retaining Ring Plier Set	\$100	\$100
3	Rivet Gun	\$50	\$150
2	Ronan Calibrator	\$175	\$350
6	Rotameter	\$200	\$1,200
5	Rotary Control Valve (1")	\$100	\$500
5	Rotary Valve Positioner	\$100	\$500
2	Sabre Saw	\$75	\$150
4	Safety Can (Solvents, Rags, etc.)	\$100	\$400
6	Screwdriver Set	\$50	\$300
6	Small Diagonal Plier	\$25	\$150
3	Socket Set (1/2")	\$75	\$225
3	Socket Set (1/4")	\$75	\$225
1	Socket Set (3/4")	\$200	\$200
3	Socket Set (3/8")	\$75	\$225
4	Solder Gun	\$50	\$200

12	Steel Rule (6")	\$10	\$120
3	Storage/Filing Cabinet	\$100	\$100
6	Straight Needle Nose Plier	\$25	\$150
3	Tap and Die Set	\$100	\$300
2	Terminal Kit	\$50	\$100
6	Thermocouples	\$50	\$300
2	Torque Wrench (1/2")	\$250	\$500
6	Transducers/IPs	\$50	\$300
1	Tubing Bender (1/2")	\$75	\$75
8	Tubing Bender (1/4")	\$25	\$200
8	Tubing Bender (3/8")	\$40	\$320
6	Tubing Cutter	\$50	\$300
4	Turbine Flow Meter	\$75	\$300
100	Uncorded Ear Plug	\$15	\$15
4	Vise	\$100	\$400
6	Wire Stripper Plier	\$25	\$150

OPTIONAL EQUIPMENT/SUPPLIES

ITEM DESCRIPTION
Programmable Logic Controller (PLC) Trainer
Programmable Logic Controller (PLC) Simulator

Category Totals:

Classroom Equipment	\$11,175
Program Equipment	\$32,920
Instructional Supplies	\$36,000
Estimated Program Total	\$80,095