

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

Cluster: Manufacturing

Program: Modern Manufacturing Center of Excellence

CLASSROOM EQUIPMENT

Total: \$11,950

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
5	Computer/Device with Current Operating System	\$1,000	\$5,000
2	Filing Cabinets	\$100	\$200
1	Industry related (simulation) software package	\$2,500	\$2,500
1	Laser Printer, color	\$500	\$500
1	MSSC CPT Unlimited Instruction	\$1000	\$1000
1	Technology- LCD Projector	\$2,500	\$2,500
1	Whiteboard	\$250	\$250

PROGRAM EQUIPMENT (Items over \$250)

Total: \$13,195

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	Air Compressor with Hose and Fittings	\$1,200	\$1,200
1	Arbor Press	\$800	\$800
1	Chain Fall	\$350	\$350
1	Clamps (Various-Including but not limited to the following: C-clamp, F-clamp, Clutch Clamp, Parallel Clamp, Pipe Clamp, Trigger Clamp, Spring-hand Clamp, Ratcheting Hand Clamp, Bandy Clamp, Gripping Edge Clamp, Dual-spindle Edge Clamp, C-Clamp Edge Clamp, Hose Clamp, Strap Clamp, Wooden Hand Screw Clamp, Locking Plier Clamp, Corner Clamp, Toggle Clamp, Fence Clamp, Drill Press Clamp, Spring Miter Clamp, Locking Chain Clamp, Straight-edge Clamp, Table Clamp, Self-squaring Frame Clamp, Cabinet Face Clamp)	\$300	\$300
1	Come-along (1 ½ Ton)	\$350	\$350
1	Double Insulated Power Tools	\$1,200	\$1,200
1	Grinder (Detail)	\$300	\$300
1	Fire Extinguisher (ABCK)	\$270	\$270
1	Grinder (Bench/Pedestal)	\$400	\$400

1	Hydraulic Press (Minimum 20 Ton)	\$400	\$400
1	Impact Wrench (1" Drive with Impact Sockets)	\$250	\$250
1	Impact Wrench (3/4" Drive with Impact Sockets)	\$450	\$450
5	Lanyards	\$365	\$1,825
1	Portable Crane (8.2'-12.5', 4000lb Capacity)	\$2,000	\$2,000
1	Rasps Kit	\$400	\$400
1	Ratchet Chain Hoist	\$500	\$500
1	Saw (Miter)	\$350	\$350
1	Saw (Portable Band)	\$350	\$350
2	Tool Chest	\$750	\$1,500

INSTRUCTIONAL SUPPLIES (Items under \$250)

Total: \$18,921

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
2	Architectural Scale Ruler	\$10	\$20
6	Back Support Belt	\$20	\$120
1	Battery Post Cleaner	\$20	\$20
1	Battery Terminal Pliers	\$12	\$12
1	Battery Terminal Puller	\$20	\$20
1	Belt Tension Gauge	\$40	\$40
4	Bench Vise	\$150	\$600
1	Bloodborne Pathogen Kit	\$50	\$50
6	Bolts/Nuts (Assorted Kit)	\$25	\$150
5	Boxes of 8.5" x 11" Paper	\$40	\$200
5	Brooms	\$10	\$50
24	Carabiners	\$8	\$48
2	Chalk Lines	\$45	\$90
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
1	Cleaning/Chemical Cabinet (Lockable)	\$250	\$250
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	Damaged Extension Cords	N/A	N/A
1	Dial Caliper (Standard and Metric)	\$50	\$50
10	Double-locking Snap Hooks	\$10	\$10
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
2	Dust Pans	\$5-10	\$10
10	Earmuffs	\$20	\$200
5	Extension Cords	\$25	\$250
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	Fiken Wrench Set (Standard .5"-1/2")	\$40	\$40
1	File (12" Half Round)	\$25	\$25
1	File (6" and 12" Coarse)	\$25	\$25
1	File (6" and 12" Fine)	\$30	\$30
1	File (6" and 12" Round)	\$25	\$25
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 per room	First Aid Kit	\$20	\$20
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
2	Flashlight	\$20	\$40
3	Floor Jacks (1 ½ ton minimum)	\$200	\$600
2	Floor Squeegee	\$20	\$40
N/A	Framing Lumber (for Cutting)	MP	MP
2	Funnels	\$20	\$20
2	Garbage Can (with Casters)	\$75	\$75
As needed	Gloves, disposable	\$15	\$15
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
1	Hand Impact Driver Set	\$40	\$40
1	Hand Saw	\$15	\$15
10	Hard Hat	\$50	\$500
10	Hard Hat Mount Earmuff (21-decibels)	\$40	\$400
1	Hazardous Skill Response Kit	\$50	\$50
1	Heavy Duty Heat Gun (1800-watt Dual Temperature)	\$50	\$50
30	Heavy Duty Work Gloves (S-M-L)	\$20	\$600
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	\$20	\$20
1	Level (I-Beam)	\$20	\$20
1	Level (Torpedo)	\$10	\$10
4	Lifting Eyes (Sets)	\$40	\$160
1	Magnetic Pick-up Tool	\$28	\$28
1	Mechanic Steel Ruler (Machinist Rule)	\$20	\$20
2	Mop	\$20	\$40
1	Mop Bucket	\$50	\$50
6	Nails (Assorted Kit)	\$30	\$180
1	OSHA "Right to Know" Compliance Kit	\$100	\$100
1	Oxy-Acetylene Torch Set	\$140	\$140
1	Pick	\$45	\$45
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	Post Hole Diggers	\$40	\$40
1	Professional Soldering Gun Kit (260-watt/200w)	\$60	\$60
2	Protective Facial Shield	\$25	\$250
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	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
10	Rulers (Steel-15")	\$7	\$70
4	Safety Can (Solvents, Rags, etc.)	\$100	\$400
1	Saw (Circular)	\$150	\$150
1	Saw (Compound Miter)	\$250	\$250
1	Saw (Reciprocating)	\$100	\$100
1	Saw (Saber)	\$50	\$50
N/A	Scrap Metal for Cutting	MP	MP
N/A	Scrap Wire for Cutting	MP	MP
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
1	Shovel	\$40	\$40
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	Spade Shovel	\$40	\$40
1	Square (Steel Combination)	\$20	\$20
1	Square (Steel Framing)	\$20	\$20
1	Square (Steel Rafter)	\$20	\$20
1	Square Shovel	\$40	\$40
2	Toolbox	\$100	\$200
1	Torque Angle Gauge	\$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
1	Trench Shovel	\$40	\$40
100	Uncorded Ear Plugs	\$15	\$15
2	Utility Knives	\$10	\$20
5	Various Types of Respirators	\$20	\$100
2	Wire Cutters	\$10	\$20
1	Wrench Kit (Metric-7mm-24mm)	\$50	\$50

1	Wrench Kit (Standard-1/4"-1 1/4")	\$120	\$120
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OPTIONAL EQUIPMENT

ITEM DESCRIPTION
Air Hammer with Chisels
Diagnostic Information Reader (PC or Data Scan Tool and Software)
Hydraulic Trainer
Pneumatic Trainer
Programmable Logic Controller (PLC)

Category Totals:

Classroom Equipment	\$11,950
Program Equipment	\$13,195
Instructional Supplies	\$18,806
Estimated Program Total	\$43,951