

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

Cluster: Transportation, Distribution and Logistics
Program: Aviation Technology

CLASSROOM EQUIPMENT

Total: \$11,700

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
1	Industry related (simulation) software package	\$2,500	\$2,500
1	Laser Printer, color	\$300	\$300
1	Scanner	\$600	\$600
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: \$68,875

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
1	Air Compressor/Hose Kit	\$1,100	\$1,100
1	Band Saw	\$320	\$320
1	Bench Shear (48")	\$3,200	\$3,200
4	Benches with Vice Attachments (54" x 64")	\$300	\$1,200
1	Cockpit Instrument Trainer	\$3,200	\$3,200
2	Cut-off Saw	\$1,000	\$1,000
1	Fan (36" -with Casters)	\$300	\$300
1	Fire Extinguisher (ABCK)	\$270	\$270
1	Grinder (220v – 3ph)	\$2,500	\$2,500
1	GTSIO-520 Continental Engine	\$16,500	\$16,500
1	Hoist (Engine)	\$325	\$325
1	Hydraulic Landing Gear System Trainer	\$3,500	\$3,500
1	O-470 Continental Engine	\$25,000	\$25,000
1	Portable Telescoping Gantry Crane (1/2 Ton)	\$1,100	\$1,100
1	Scroll Saw	\$460	\$460
1	Sheet Metal Roll	\$1,000	\$1,000
1	Welder (AC 225 A)	\$900	\$900

1	Welding Manifold System	\$7,000	\$7,000
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INSTRUCTIONAL SUPPLIES (Items under \$250)

TOTAL: \$29,785

QUANTITY	ITEM DESCRIPTION	UNIT	TOTAL
6	Air Chisel Set (Various Types)	\$70	\$420
2	Air Pressure Regulator	\$20	\$40
2	Air Ratchet (3/8" Drive)	\$45	\$90
10	Aprons (Cotton)	\$10	\$100
6	Back Support Belt	\$20	\$120
2	Belt Sand Disc (10-pack)	\$35	\$70
1	Belt Tension Gauge	\$40	\$40
4	Benches with Vices Attachments (3' x 6')	\$200	\$800
1	Bloodborne Pathogen Kit	\$50	\$50
5	Brooms	\$10	\$50
2	Cable Cutter	\$40	\$80
12	Cages: Countersink (Micro Stop)	\$25	\$300
6	Chisel (Cold: 3/4")	\$15	\$90
6	Chisel (Cold: 1/2")	\$15	\$90
6	Chisel (Cold-3/8")	\$15	\$90
9	Clamps (C-Assorted Sizes)	\$100	\$100
1	Cleaning/Chemical Cabinet (Lockable)	\$250	\$250
20	Clecos (Spring #20)	\$40	\$80
20	Clecos (Spring #30)	\$40	\$80
20	Clecos (Spring #40)	\$30	\$60
20	Clecos Kit (Spring #10)	\$30	\$60
6	Combination Wrenches (Metric-7mm – 24mm)	\$50	\$300
6	Combination Wrenches (Standard-1/4" – 1 1/4")	\$120	\$720
6	Crowfoot Wrench Set (Metric)	\$25	\$150
6	Crowfoot Wrench Set (Standard)	\$25	\$150
8	De-burring Tools	\$20	\$160
2	Drill (1/2" Variable Speed, Reversible)	\$100	\$200
2	Drill (3/8" Variable Speed, Reversible)	\$75	\$150
1	Drill Press	\$200	\$200
2	Dust Pans	\$10	\$20
30	Ear Protection	\$100	\$100
10	Earmuffs	\$20	\$200
3	Electric Extension Cords	\$50	\$150
2	Electric Light Drop Cords	\$35	\$70
2	Etcher (Electric)	\$30	\$60
3	Extension Cords	\$50	\$150
1	Extension Ladder	\$250	\$250
3	Eye Protection (Pack of 12)	\$15	\$45

2	Eye Rinse Stations	\$115	\$230
1	Fabric Tester (Maule)	\$70	\$70
2	Feeler Gauge (Blade Type: .002" - .040")	\$10	\$20
2	Feeler Gauge (Blade Type: .006mm - .070mm)	\$10	\$20
3	Files (Cards)	\$30	\$90
4	Files (Coarse: 12")	\$20	\$80
4	Files (Coarse: 6")	\$20	\$80
4	Files (Half Round: 12")	\$20	\$80
3	Files (Round: 12")	\$20	\$60
3	Files (Round: 6")	\$20	\$60
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	Flex Handle-Breaker Bar	\$15	\$30
2	Flexhead Ratchet (3/8" Drive)	\$40	\$80
6	Flexible Socket Set (10mm – 19mm)	\$40	\$240
6	Flexible Socket Set (3/8" – 3/4")	\$30	\$180
2	Floor Jack (1.5 Ton Minimum)	\$200	\$400
2	Floor Squeegee	\$20	\$40
2	Garbage Can (with Casters)	\$75	\$150
As needed	Gloves (Disposable)	\$15	\$15
4	Grinder (Electric)	\$70	\$280
2	Hack Saw	\$30	\$60
6	Hammer (Ball Peen: 16oz.)	\$15	\$90
5	Hammer (Claw)	\$25	\$125
2	Hammer (Plastic Tip)	\$10	\$20
1	Hammer (Sledge: 3lb)	\$40	\$40
5	Hand Drill	\$75	\$375
5	Hand Drill Bit	\$20	\$100
1	Hand-held Vacuum Pump	\$180	\$180
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
1	Impact Wrench (3/8" Drive)	\$220	\$220
4	Inspection Mirror	\$15	\$60
5	Levels (3')	\$20	\$100
1	Magneto Tester	\$250	\$250
6	Micrometer (0-1", 1-2", 2-3", 3-4", and 4-5")	\$110	\$660
6	Micrometer (Depth)	\$220	\$1,320
2	Mop	\$20	\$40
1	Mop Bucket	\$50	\$50

1	Oil Filter Wrench	\$40	\$40
1	OSHA "Right to Know" Compliance Kit	\$100	\$100
1	Oxy-Acetylene Tank	\$200	\$200
20	Pliers (Clecos)	\$20	\$400
6	Pliers (Combination: 6")	\$10	\$60
6	Pliers (Duckbill)	\$25	\$150
6	Pliers (Locking Jaw)	\$20	\$120
6	Pliers (Needle Nose: 6")	\$15	\$90
6	Pliers (Side-cutting)	\$10	\$60
6	Pliers (Slip Joint-Water Pump)	\$25	\$150
6	Pliers (Vice Grips)	\$20	\$120
5	Professional Bit Brace	\$50	\$250
2	Protective Facial Shield	\$25	\$250
9	Punch Kit (Pin: 1/8", 3/16", 1/4", and 5/16")	\$25	\$225
2	Punch Letter Sets	\$25	\$50
9	Punches (Center)	\$30	\$270
6	Ratchet (1/2" Drive)	\$20	\$120
6	Ratchet (1/4" Drive)	\$20	\$120
6	Ratchet (3/8" Drive)	\$20	\$120
2	Rivet Gun (Pop)	\$50	\$100
10	Rivet Guns (Pneumatic)	\$100	\$1,000
20	Rivet Set (Pneumatic Assorted Sizes)	\$15	\$300
1	Rubber Mallet	\$15	\$15
4	Safety Can (Solvents, Rags, etc.)	\$100	\$400
6	Screwdriver (12" - #3)	\$15	\$90
6	Screwdriver (6" - #1)	\$15	\$90
6	Screwdriver (6" - #2)	\$15	\$90
6	Screwdriver (Blade Type: 6", 9", and 12")	\$15	\$90
6	Screwdriver Kit (Phillips)	\$20	\$120
6	Snips-Aviation Sheet Metal (L/H) Offset	\$20	\$120
6	Snips-Aviation Sheet Metal (R/H) Offset	\$20	\$120
6	Snips-Aviation Sheet Metal (Straight/Offset)	\$20	\$120
6	Socket Set (1/2" Drive)	\$50	\$300
6	Socket Set (1/4" Drive)	\$50	\$300
6	Socket Set (3/8" Drive)	\$50	\$300
6	Socket Set (6-point: 3/8" - 3/4")	\$50	\$300
6	Socket Set (6-point: Standard Depth-5/16" - 3/4")	\$50	\$300
6	Socket Set (Deep: 1/4" - 1/2")	\$50	\$300
6	Socket Set (Deep: 10mm - 24mm)	\$50	\$300
6	Socket Set (Deep: 6mm - 12mm)	\$50	\$300
6	Socket Set (Deep: 7/16" - 1 1/8")	\$50	\$300
6	Socket Set (Extensions: 3", 5" and 10")	\$15	\$90
6	Socket Set (Extensions: 3", 6" and 12")	\$15	\$90

6	Socket Set (Flex/Universal Type)	\$30	\$180
6	Socket Set (Standard Depth: 10mm – 19mm)	\$50	\$300
6	Socket Set (Standard Depth: 10mm – 24mm)	\$50	\$300
6	Socket Set (Standard Depth: 6mm – 12mm)	\$50	\$300
6	Socket Set (Standard Depth: 7/16" – 1 1/8")	\$50	\$300
4	Soldering Gun	\$20	\$80
2	Speed Handle	\$30	\$60
10	S-shaped Bucking Bar Kit (142 and 149)	\$70	\$700
2	Tape Measurer (Standard or Metric)	\$25	\$50
6	Telescope Gauge Set	\$30	\$180
2	Toe-in/Toe-out Scales	\$140	\$280
3	Torque Wrench (1/2" Drive – 50 – 250 lb. ft.)	\$60	\$180
3	Torque Wrench (3/8" Drive: 10 – 250 lb. in.)	\$60	\$180
3	Torque Wrench (3/8" Drive: 5 – 75 lb. ft.)	\$25	\$75
5	Tubing Benders	\$75	\$375
5	Tubing Cutter/Flaring Set (Double-lap and ISO)	\$40	\$200
4	Twist Drill Set (1/64" – 1/2")	\$140	\$560
100	Uncorded Ear Plugs	\$15	\$15
6	Universal Joint	\$50	\$300
6	Vernier Calipers (0 – 6")	\$25	\$150
6	Welders (Chipping Hammers)	\$15	\$90
9	Welders (Gloves/Leather)	\$25	\$225
6	Welders (Strikers)	\$15	\$90
9	Welders Goggles (Gas-Cutting/Welding)	\$15	\$135
6	Welding Face Shields	\$200	\$1,200
6	Wire Brush	\$10	\$60
1	Wooden Bench (28" x 34")	\$200	\$200
2	Wrench Kit (Pipe)	\$50	\$100
3	Wrenches (Crescent: 8", 10" and 12")	\$30	\$90
3	Z-shaped Bucking Bars (670)	\$20	\$60

Optional Equipment

ITEM DESCRIPTION
Aviation Alignment Equipment

Category Totals:

Classroom Equipment	\$11,700
Program Equipment	\$68,875
Instructional Supplies	\$29,785
Estimated Program Total	\$110,360