

**MECHANICAL TECHNOLOGY**

This recommended list is based upon a classroom size of 25 students. All costs are estimated and should be adjusted and verified with current quotes. No specific equipment vendor or brand names are endorsed due to various possibilities, 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 Mechanical Technology program.

**CLASSROOM EQUIPMENT****TOTAL: \$18,210**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Workstations w/chairs	\$400	\$10,000
1	Teacher Workstation w/chair	\$400	\$400
1	Teacher Computer (enhanced graphics/memory/speed, download capable)	\$2,500	\$2,500
1	Presentation Equipment (e.g., interactive whiteboard (IWB), or other interactive display system, including software and accessories)	\$3,000	\$3,000
1	Networkable Laser Printer (black/white or color)	\$400	\$400
1	Vertical File Cabinet (lockable)	\$330	\$330
2	Storage Cabinets (36" x 12" x 72") (lockable)	\$300	\$600
2	Bookcases (36" x 12" x 42")	\$115	\$230
2	White Boards (4' x 8')	\$110	\$220
1	Eyewash Station	\$300	\$300
1	Fire Extinguisher	\$130	\$130
1	First Aid Kit	\$100	\$100

**PROGRAM EQUIPMENT****TOTAL: \$137,300**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Computers (enhanced memory/speed, download capable)	\$1,500	\$37,500
1	Technology Storage/Charging System (optional)	\$2,000	\$2,000
1	Motor Control Trainer	\$12,000	\$12,000
1	Sensor Trainer	\$12,000	\$12,000
1	Pneumatic and Hydraulic Trainer	\$12,000	\$12,000
1	Virtual Welder	\$10,000	\$10,000
1	Computer Numerical Control (CNC) Mill (2' x 3')	\$7,000	\$7,000
1	Welding Simulator with Software	\$7,000	\$7,000
1	Engine Trainer	\$4,500	\$4,500

**PROGRAM EQUIPMENT (CONT.)**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
1	Bench Lathe	\$4,500	\$4,500
1	Programmable Logic Controller (PLC)	\$4,000	\$4,000
2	Electrical Trainers	\$3,200	\$6,400
6	Advanced Robotics Kits	\$1,500	\$9,000
1	Manual Mill	\$1,500	\$1,500
1	Plasma Cutter	\$1,500	\$1,500
1	Gas Metal Arc Welder (GMAW)	\$1,200	\$1,200
1	Shielded Metal Arc Welder (SMAW)	\$1,000	\$1,000
1	Hazardous Material Safety Cabinet (45-gallon capacity)	\$1,000	\$1,000
1	Storage Cabinet for Sanitized Eye Protection Equipment	\$800	\$800
1	Air Compressor (with accessories)	\$600	\$600
3	Oxy-fuel Welders/Cutting Equipment	\$600	\$1,800

**INSTRUCTIONAL MATERIALS****TOTAL:****\$3,000**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Textbooks (Approved by NDE)	\$100	\$2,500
1	Teacher Textbook Edition and Resources	\$500	\$500

**INSTRUCTIONAL SUPPLIES****TOTAL:****\$27,625**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
1	Electrical Lockout Station	\$445	\$445
1	4-Lock Lockout Station	\$180	\$180
Varies	Automotive Tools (brake, engine, transmission, drivetrain repair)	\$8,000	\$8,000
Varies	Measuring Equipment (framing squares, measuring tapes, calipers, micrometers, levels, multimeters, tachometers, etc.)	\$5,000	\$5,000
Varies	Power Tools (dependent on materials used, includes grinders, reciprocating saws, soldering, rotary tools, grinders, saws, etc.)	\$5,000	\$5,000
Varies	Hand Tools (socket sets, vises, clamps, hammers, hex keys/Allen wrenches, utility knives, etc.)	\$2,500	\$2,500
Varies	Welding Tools (clamps, slag hammers, electrode tip cleaners, flint strikers, carts, etc.)	\$2,000	\$2,000
Varies	Welding Materials (electrodes, metal, wire, gas, etc.)	\$2,000	\$2,000
Varies	Personal Safety Equipment (welding hoods, gloves, ear protection, aprons, etc.)	\$1,000	\$1,000

**INSTRUCTIONAL SUPPLIES (CONT.)**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
Varies	Supplies (various types of paper, sketching pencils/paints, lead, erasers, ink cartridges, etc.)	\$1,000	\$1,000
Varies	Computer Accessories (cases, covers, etc.)	\$500	\$500

**OTHER**

**TOTAL:**

**\$325**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
1	Occupational Safety and Health Administration (OSHA) Instructor Training	\$300	\$300
1	OSHA Tag out / Lock out Instructor Training	\$25	\$25

**CATEGORY TOTALS:**

CLASSROOM EQUIPMENT	\$18,210
PROGRAM EQUIPMENT	\$137,300
INSTRUCTIONAL MATERIALS	\$3,000
INSTRUCTIONAL SUPPLIES	\$27,625
OTHER	\$325
<b>ESTIMATED PROGRAM TOTAL</b>	<b>\$186,460</b>