

**METALWORKING**

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 Metalworking program.

**CLASSROOM EQUIPMENT****TOTAL: \$16,740**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Workstations w/chairs	\$400	\$10,000
1	Teacher Workstation w/chair	\$400	\$400
1	Teacher Computer	\$900	\$900
1	Presentation Equipment (e.g., interactive whiteboard (IWB), or other interactive display system with software and accessories)	\$3,000	\$3,000
1	Networkable Laser Printer	\$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
2	Fire Extinguishers	\$130	\$260
1	First Aid Kit	\$100	\$100

**PROGRAM EQUIPMENT****TOTAL: \$105,000**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
25	Student Computers	\$1,000	\$25,000
1	Technology Storage/Charging System (optional)	\$2,000	\$2,000
3	Welding Simulators (with software)	\$7,000	\$21,000
1	Pedestal Grinder	\$3,500	\$3,500
3	Welding Stations/Booths	\$3,000	\$9,000
1	Metalworking Lathe	\$2,500	\$2,500
3	Gas Tungsten Arc Welders (GTAW)	\$1,600	\$4,800
3	Cutting Tables	\$1,500	\$4,500
3	Plasma Cutters	\$1,500	\$4,500
2	Drill Presses	\$1,500	\$3,000

**PROGRAM EQUIPMENT (CONT.)**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
1	English Wheel and Stand	\$1,500	\$1,500
1	Metal Shaping Station	\$1,300	\$1,300
6	Gas Metal Arc Welders (GMAW)	\$1,200	\$7,200
8	Shielded Metal Arc Welders (SMAW)	\$1,000	\$8,000
2	Metal Stretchers	\$800	\$1,600
1	Storage Cabinet for Sanitized Eye Protection Equipment	\$800	\$800
6	Oxy-fuel Welders/Cutting Equipment	\$600	\$3,600
2	Belt Grinders for Metal	\$600	\$1,200

**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: \$22,250**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
Varies	Personal Safety Equipment (welding hoods, gloves, ear protection, and aprons)	\$5,000	\$5,000
Varies	Metalworking Materials and Tools (fasteners, dyes, scribes, dividers, trammel points, edge gauges, metal forming kits, heavy duty metal bender, seamer tongs, punch and flare tools, etc.)	\$4,000	\$4,000
Varies	Welding Tools (clamps, slag hammers, electrode tip cleaners, flint strikers, etc.)	\$4,000	\$4,000
Varies	Basic Tools (pliers, hammers, screwdrivers, chisels, foot shears/ power shears, hand shears, Beverly shears, Whitney punches, etc.)	\$3,000	\$3,000
Varies	Welding Materials (electrodes, metal, wire, gas, etc.)	\$3,000	\$3,000
Varies	Hand and Power Tools (drills, saws, soapstone, etc.)	\$1,500	\$1,500
Varies	Measurement Tools (tape measures, levels, squares, etc.)	\$750	\$750
Varies	Lab Safety Supplies (glasses, brooms, garbage cans, etc.)	\$500	\$500
Varies	Computer Accessories (cases, covers, etc.) (optional)	\$500	\$500

**OTHER****TOTAL:****\$300**

QTY	ITEM DESCRIPTION	UNIT	TOTAL
1	Occupational Safety and Health Administration (OSHA) Instructor Training	\$300	\$300

**CATEGORY TOTALS:**

CLASSROOM EQUIPMENT	\$16,740
PROGRAM EQUIPMENT	\$105,000
INSTRUCTIONAL MATERIALS	\$3,000
INSTRUCTIONAL SUPPLIES	\$22,250
OTHER	\$300
<b>ESTIMATED PROGRAM TOTAL</b>	<b>\$147,290</b>