
Equipment List

Construction Technologies Construction Technology – Option A

Please note: This list of recommended items does not necessarily need to be supported financially by CTE state/federal funding sources. In many cases, local school district funds are used to purchase items on a regular basis.

GENERAL FACILITY CONSIDERATIONS

DUST, FUMES, VAPORS AND COMBUSTIBLE METALS SAFETY

Adequate ventilation is essential when cutting, welding, soldering, melting, or machining lead or zinc. Access to an eye wash station

ELECTRICAL EQUIPMENT

Three-prong, self-grounding plugs should be utilized with all 110-volt electrical equipment. UL-approved double-insulated tools are recommended.

Machinery should be equipped with magnetic-type switches.

When plunger-type switches are used, a push should shut off the machine.

An emergency cutoff switch should be placed in a central location in the facility.

Extension cords should be heavy-duty or sized to carry the largest expected electrical load

FACILITY SIZE

The size and shape of the facility, arrangement, and location of passageways, storage, and work areas are important factors in establishing safe working conditions. Adequate exterior work area must be provided.

FIRE PREVENTION AND EXTINGUISHMENT

Finishing rooms and booths should be properly constructed to eliminate sparks and provide adequate ventilation. All electrical equipment must be grounded. A metal storage cabinet for paints, thinners, and other flammable materials. Fire extinguishers should be adequate in number and approved for the type of fire that could occur in the work area.

FLOORS

Safety zones should be marked around machines to provide ample workspace for the operator and to prevent interference with the operator. Nonskid material should adhere to the floor where the operator works

LIGHTING

Adequate and well-maintained lighting is essential to a safe work environment.

MATERIAL AND SUPPLY STORAGE

Special storage containers or areas may be required for different products.

EQUIPMENT/TOOLS

Air Compressors
Aluminum and PVC Trim Coils
Assortment of Bars, including Crowbars, Ripping Bars and Nail Pullers Assortment of Clamps, including Bar,
Pipe, C-Clamps, and Wood screw
Assortment of Drill Bits, Including Auger, Twist, Electricians Set, Forstner, Masonry, Plumbers Set, Screwdriver tips, and Spade
Assortment of Extension Cords
Assortment Of Files And Rasps
Assortment of Grinder Discs, Wheels, and Points
Assortment of Hand Saws, including Backsaw, Coping, Dovetail, Handsaw, Hacksaw, Keyhole, and Drywall saws
Assortment of Sanding Discs and Abrasive Belts
Assortment of Saw Blades, including Rip, Crosscut, Combination, Nail Cutter
Assortment of Scaffold Tags
Assortment of Screwdrivers - Torx, Standard, and Phillips
Assortment of Tape Measures, Rules and Digital Measuring Tools
Aviation Shears

Bench Vise
Block Sets
Brick Trowels
Brick Sets
Brooms
Builder's Level
Bullfloats

Caulking Gun
Chalk Lines
Chisels, both cold and wood
Come-along
Compass Saw
Concave Jointers
Concrete Mixer
Concrete Tamp
Copy of latest edition of *The National Electrical Code OSHA Electrical Safety Guidelines*
Corner Blocks or Stretchers
Corner Poles

EQUIPMENT/TOOLS (con't)

Darbies
Drywall Circle cutter
Drywall Mud Pans
Drywall Roll Lifters
Drywall T Square
Drywall Taping Knives 6" 10" & 12"
Drywall Texture Hopper
Dusting Brushes

Edgers
Electric Drill
Electric/Pneumatic Carbide-Tipped Power Hand Shears
Equipment Connectors
Eye Rods
Eye Sockets
Eyedroppers

Flare Nut
Flaring Tool
Flashing
Flat-Blade Screwdriver
Framing Square
Fuse Pullers

Generators
Groovers

Hand Sight Levels
Hydraulic Jack

Insulating Blankets
Internal Tube Cutter

Ladders – Step and Extension
Levels – Torpedo, 2', 4' (both metal and wood/masonry), 6'
Limit Switches
Lockout/Tagout Devices

Machinist's Rule
Margin Trowel
Marking Tools
Masonry Splitter
Mason's Line and Line Pins
Miter Box
Mixing Shovels
Mortar Mixer

EQUIPMENT/TOOLS (con't)

Mortar Pans and Boards

Nail Aprons

Nail Sets

Nonadjustable and Adjustable Wrenches

Nonferrous Metal Cutter Blades

Pails

Pavement Breaker

Pipe Wrenches

Plumb Bob

Pneumatic Staplers and Nail Guns

Poker Vibrators

Pop Riveter

Portable and Stationary Power Saws: Saber, Circular, Concrete, Electric Miter

Box Saw, Masonry, Metal Cutting Chop Saw, Reciprocating, Sliding Compound Miter Saw, 10"
Table Saw,

Portable Handheld Bandsaw

Portable Power Drills Including Cordless, Electric, Electromagnetic, Pneumatic,
Right-angle, and Hammer Drill

Portable Power Tools including Belt Sanders, Random Orbit Sanders, Vibrating
Sanders, Drywall Screw Guns, Right Angle Grinders, Drywall Cutout Tool

Powder Actuated Tools

Punches for Wood and Metal

Putty Knife

Rubbing Stone(s)

Sandbox(es)

Sawhorses

Scaffolds (Or Access To Scaffolds)

Scales

Score-And-Snap Knife with Tungsten Carbide Tip

Scribing Compass

Shorting Probes

Shovels: Round, Square and Spade

Sliding T-Bevel

Smooth-Jaw Pipe Wrench

Socket Wrench Sets

Soldering Torch with gas

Stationary Power Tools Including 14" Band Saw, Drill Press, 6" Grinder

Steel Awl

Steel Tape

Straightedges

String Line

Struts

Career Preparation

Equipment List

Construction Technologies - Construction Technology (Option A) 2006

EQUIPMENT/TOOLS (con't)

Termite Shield
Three-Wire Extension Cords and Receptacles
Tile Cutter
Tin Snips
Tool Box Consisting of Standard Carpenter's Hand Tools
Torque Wrenches
Transit Level
Tripods
Tube Cutter
Turnbuckles
Utility Knife
Variety Of MSDSs
Various Sizes and Types Of Sledgehammers
Various Sizes of Claw and Ball Peen Hammers, also Roofing and Drywall Hammers
Various Types of Squares – Combination, Framing, Speed
Vinyl Siding Unlocking Tools
Water Hose/Barrel
Water Level
Wedges
Wheel-Type Plastic Tubing Cutter
Wheelbarrows
Wire Brushes
Wire Strippers

PERSONAL PROTECTIVE EQUIPMENT

Back Belt
Gloves
Hard Hats
Hearing Protection
Respiratory Protection
Rubber Gloves
Safety Glasses, Goggles, and Face Shields
Safety Harnesses/ Fall Protection Devices
Welding Gloves
Work Shoes

SUPPLIES

Aggregate
Assorted Crimp-On Wire Lugs
Assorted Solderless Connectors
Assortment of Insulation Materials
Beam Material
Building Paper
Cement
Concrete
Copper Pipe and Fittings
Dimensional Lumber for Slab Forms
Drip Cap
Flashing
Grout Mixture
H-Clips
Joist Lumber
Lime
Lumber For Framing Including 2 X 4's, 2 X 6's, And Other As Necessary
Metal Brace Material
Metal Stock
Nails
Nuts And Bolts – Including J-bolts
Plastic Pipe and Fittings
Plywood
Relays
Ring-Tight Gasket and Fusion Fittings
Romex And Other Cables/Conductors
Roof Trusses
Sand
Screws

SUPPLIES (con't)

Sheathing Material
Shim Materials
Tie Wire
Sill Sealer
Solder
Soldering Paste or Flux

MISCELLANEOUS EQUIPMENT

Burlap
Eye Rods
Eye Sockets
Eyedroppers
Flare Nut
Flaring Tool
Highway Straightedges
Hot Sticks
Mashes
Portable Brake
Portable Metal Brake
Roof Rollers
Slater's Tools
Tube Bending Spring
Variety Of Shackles, Eyebolts, Lifting Clamps and Rigging Hooks
Ventilator