

Arizona Department of Education

Career and Technical Education

Recommended Equipment List

Program: Construction Technologies
CIP#: 46.0400.20

NOTE: The following items and descriptions are the recommended equipment guidelines for each **CTE Construction Technologies** program. Please note that this list of recommended items does not necessarily need to be supported financially by Federal Perkins or State Priority funding sources. In many cases, local school district funds are used to purchase items on a regular basis (i.e. furniture, consumables, etc.) Further, please understand that this is not an exhaustive list.

Please contact ADE-CTE Program Specialist for Construction Science Technologies, Jamie Miller (Jamie.Miller@azed.gov), if you have questions regarding the appropriateness of any item you are considering for addition to your **CTE Construction Technologies** program.

Recommended Equipment and Software

Item	Items
Highest Priority* MUST HAVE	
Safety glasses with side shields Z87	8"-10: concrete finishing trowel
Set of cold chisels	Steel concrete edger
Architect / engineer scale	Floor broom
16' - 30' push pull tape	Workbench brush
100' tape measure	Drill bits with index - 1/16"-1/4" HS
16-20 oz. smooth-faced trim hammer	2", 4", 6", 8" and 12" drywall taping knives
22-24 oz. framing hammer	Circular saw 7-1/4" with combination blade
8 point handsaw	Cordless drill or drill / impact driver combo kit
2' level	Drywall hammer
4' Level	4' T-square
Rulers-straight edge, standard, metric	Work bench
Screwdrivers - Phillips & regular	Safety / hazard / exit signs
3-1/2" brick chisel	Channel-lock pliers
Set of 4 wood chisels: 1/4", 1/2", 3/4" and 1"	Dust masks - 3M - Model 8210, for insulation
Speed square	Extension cord - grounding type - 50' minimum
100' chalk box	Round shovel
Utility knife and blades- hook bill, straight	Pointed shovel
Cat's paw	Work gloves
Framing square (with rafter tables)	Transit level or builder's level
Bars - wrecking bar, wonder bar, flat, chisel	Range pole
12-oz. or heavier plumb bob	Tripod
8" adjustable end wrench	Wheel barrow
6" locking C-clamp pliers	Concrete trowels
Aviation snips (tin snips)	Masonry trowels
Combination square	Mortar hoe
Mud pan	Mortar boards
Drywall rasp	Raker
Drywall jab saw	Masonry brushes

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wire brush	Reciprocating saw
Hacksaw with blades	Plumber's drill set
Spade bit set (1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1")	Fiberglass ladders (6')
6' Standard Brick Mason's Folding Rule	Extension ladder
9 - 11" brick trowel	Sawhorses
Mason's line blocks	Handsaw, crosscut, ripping
100' braided nylon mason's line	Caulking gun
Brick hammer 18 – 24 oz.	Pair stair gauges
Jointer – Masonry 1/2" x 5/8"	Propane torch handle and tank
Square shovel	Conduit bender
16" magnesium concrete float	Tubing, pipe cutters
Non-adjustable wrenches	Slip joint pliers
Miter box	Various clamps
Files - round, flat, triangle, rat-tail, square	Simple circuit tester
File card 3-1/2"	brick chisel
Rasp	Rubber mallet
Wire stripper	Wood mallet
Cable stripper	Variety of wrenches
Lineman's pliers	Drywall screw gun
Diagonal cutters	Sockets / ratchet
Needle nose pliers	Scratch awl
Pipe wrench	Pressure gauge
High Priority* REALLY SHOULD HAVE	
Nail bags	Staple gun
YELLOW hard hat - type AB	Portable jigsaw / sabersaw
Pipe stand	PVC ratchet cutter
Pneumatic nailer	PEX insert and crimp-ring system
Pneumatic finish nailer	PEX tubing cutter
Manual screed	PEX hand-crimping tool
Bullfloat	Variety of plumbing wrenches
Concrete jointer / groover	Basin, spud, seat, crescent, basket
Safety harness w/ lanyard	Shower valve socket wrench,
Block chisel set	Smooth-jawed crescent
Brick chisel set	Circle cutter
Compound miter saw	T-brace-drywall
Table saw	Mud masher / mixer
Panel saw	Jointer trowels-drywall
Pex ring expander tool	Pole sander
Go-no-go gauge	Sand blocks
Pipe vise	Nail spotter

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Pipe reamer	Drywall tape dispenser
Line pins	Locking pliers
Paint roller handle	Punches
Glue gun	
Lower Priority* NICE TO HAVE	
Construction calculator	Pressure washer
Ear protection (plugs or muffs)	Chaining pins
Rubber boots	Portable band saw
Coping saw	Flaring tool kit
Nail sets - set of four	Rotary router
Knee pads	Rotary hammer drill
2" paint brush	Threading die and stock set
Concrete mixer	Block / jack / smoothing/ jointer plane
Safety vests	Drill press
Masonry spacing jigs	Router / router bits set / laminate trimmer
Masonry saw	Portable power plane
Shingle knife	Try / sliding t-bevel / miter squares
Lockout / tag out set	Builder's / transit / laser, transmitter, receiver /water levels
Rubber gloves	Web / hand-screw / bar / spring / locking C /pipe clamps
First aid kit	Hacksaw / backsaw / dovetail / compass /coping saws
Torpedo level	Random orbital sander
Fish tape	Mud dispenser "Bazooka"
Shop vacuum	Vacuum sander
Airless sprayer	Corner roller
Generator, portable	Corner plow
Air compressor portable w/ hose	Tripod pipe vise
Portable scaffold	Calipers
Texture hopper	Micrometers
Torque wrench	Powder actuated fasteners
Multimeter	Air impact wrench
Cast iron cutter	Hydraulic jack
Sledrunner	Pallet jack
Bolt cutter	Material flat cart
Rebar bender / hickey bar	Hand truck
Sand blaster portable	

***NOTE:**

Tool list developed from NCCER curriculum modules for Carpentry and Southwest Carpenter's Training Fund online

Suggested tools and equipment