

## ARCHITECTURE AND CONSTRUCTION CLUSTER

### Building Construction

Revised: 8/16/2012

Courses	Approximate Cost of New Item	Construction Site			Number Needed	Total Cost
		Preparation and Foundations	Construction Framing	Construction Finishing and Interior Systems		
Equipment for Building Construction						
Air compressor	\$ 1,600	1	1	1	1	\$ 1,600
Air Die Grinder with Bits	\$ 150				1	\$ 150
Air Hose, 50'	\$ 50	1	1	1	1	\$ 50
Air regulator	\$ 50	1	1	1	1	\$ 50
Allen wrench set (metric & standard)	\$ 40	1	1	1	1	\$ 40
Angle grinder	\$ 100				2	\$ 200
Architect's scale	\$ 15				6	\$ 90
Automatic and/or Mechanical Pencils	\$ 10	12	12	12	12	\$ 120
Bench Vise, 6" or larger	\$ 150	4	4	4	4	\$ 600
Bit Driver Set (Hex or Allen and Torx)	\$ 50				2	\$ 100
Blade, 14" Diamond Tip	\$ 150	1			1	\$ 150
Blade, Abrasive	\$ 15	2	2	2	2	\$ 30
Block Plane	\$ 45.00			2	2	\$ 90
Braided Line, 500'	\$ 10	2			2	\$ 20
Brick Set (4")	\$ 20				6	\$ 120
Brick, Half	\$ 0.20				100	\$ 20
Brick, Hollow	\$ 0.35				100	\$ 35
Brushes, Paint	\$ 10	6	6	6	6	\$ 60
Builders level or Transit with rod & tripod	\$ 600	1	1		1	\$ 600
Calculator	\$ 5				12	\$ 60
Cat Paw Nail Digger	\$ 25	2	2	2	2	\$ 50
C-clamps (4, 6, 8, 10, 12 in.)	\$ 10	6	6	6	6	\$ 60
Chaining pin sets	\$ 25				3	\$ 75
Chalk line	\$ 20	2	2	2	2	\$ 40
Chemical facial respirator (for protection against harmful dust, sprays, pesticide vapors)	\$ 175				1	\$ 175
Chisel, Wood Set	\$ 35	1	1	1	1	\$ 35

Circle Template	\$ 6				6	\$ 36
Clamps, assorted (metal/wood)	\$ 25	6	6	6	6	\$ 150
Clamps, Bar	\$ 20	6	6	6	6	\$ 120
Cold chisels, assorted	\$ 20	1			1	\$ 20
Computer Table w/ Additional Work Space and Chair	\$ 200	1	1	1	1	\$ 200
Computer, appropriate software & equipment/internet access	\$ 1,000	1	1	1	1	\$ 1,000
Convex Jointer, Heavy Duty	\$ 10	2			2	\$ 20
Countersink bit set	\$ 10		1	1	1	\$ 10
Current NEC CD and/or Workbook	\$ 50				1	\$ 50
Dividers	\$ 10				6	\$ 60
Drill bit set, metal/wood	\$ 50	1	1	1	1	\$ 50
Drill Bits, Masonry Carbide	\$ 50	1	1	1	1	\$ 50
Drill press vise	\$ 150				1	\$ 150
Drill press, 15", variable speed	\$ 1,400	1	1	1	1	\$ 1,400
Drill, ½" Hammer	\$ 250	1	1	1	1	\$ 250
Drill, ½" Right Angle	\$ 200			1	1	\$ 200
Drill, portable power, variable speed, reversible	\$ 200	4	4	4	4	\$ 800
Drywall Hammer	\$ 30			2	2	\$ 60
Drywall Handsaw	\$ 35			1	1	\$ 35
Drywall Hole Saw	\$ 15			1	1	\$ 15
Drywall Screw Drill	\$ 100			1	1	\$ 100
Engineer's scale	\$ 25				6	\$ 150
Erasers (Pencil, Ink, and Plastic	\$ 5				6	\$ 30
Erasing Shield	\$ 2				6	\$ 12
Expansion Bit	\$ 30	1	1	1	1	\$ 30
Extension Cord, 12/3, 25'-100', Grounded	\$ 80	2	2	2	2	\$ 160
File assortment	\$ 40			1	1	\$ 40
First aid kit	\$ 35	1	1	1	1	\$ 35
Fish Tape, 100'	\$ 25			1	1	\$ 25
Grinder, Pedestal or Portable	\$ 200	1			1	\$ 200
Hacksaw	\$ 20		4	4	4	\$ 80
Hammer, Ball Pein, (16-32 oz.)	\$ 17	1	1	1	1	\$ 17
Hammer, Claw	\$ 30	6	6	6	15	\$ 450
Hammer, Dead Blow	\$ 50		1	1	1	\$ 50
Hammer, Roofing	\$ 25	2	2		2	\$ 50
Hammer, Sledge	\$ 35	1	1	1	1	\$ 35
Hammer, Soft Face	\$ 25			2	2	\$ 50

Hand Jointer V	\$ 15	2			2	\$ 30
Hand plane	\$ 25	2	2	2	2	\$ 50
Handsaw	\$ 25		6		6	\$ 150
Hard hat ( <b>per student</b> )	\$ 20		1		30	\$ 600
Hole Saw Set for Drill (Wood)	\$ 30		1	1	1	\$ 30
Impact Gun, ½" Air Drive	\$ 250				1	\$ 250
Impact Gun, 3/8" Air Drive	\$ 200				1	\$ 200
Increment borer	\$ 225				2	\$ 450
Irregular Curves Template	\$ 8				6	\$ 48
Joint Raker	\$ 15	4			4	\$ 60
Knock Out Punch Set	\$ 100				1	\$ 100
Ladder (6'-14' Step)	\$ 100		1	1	1	\$ 100
Ladder, 24' Extension	\$ 200		1	1	1	\$ 200
Lanyard	\$ 60				3	\$ 180
Level (12" to 48")	\$ 25	4	4	4	4	\$ 100
Level, Mason's	\$ 60	1			1	\$ 60
Level, Torpedo	\$ 20	1	1	1	1	\$ 20
Machinist vise	\$ 150				1	\$ 150
Magnetic Pick-up Tool	\$ 20				1	\$ 20
Mallet, Wooden	\$ 25			2	2	\$ 50
Multimeter, Digital, Overload Protected	\$ 150		1	1	1	\$ 150
Nail sets	\$ 10	3	3	3	3	\$ 30
Nut Driver Set (Metric)	\$ 65	1	1	1	1	\$ 65
Nut Driver Set (Standard)	\$ 65	2	2	2	2	\$ 130
Pin, Trig	\$ 10	5			5	\$ 50
Pipe cutter	\$ 35			1	1	\$ 35
Pipe die set	\$ 300			1	1	\$ 300
Pipe reamer	\$ 20			1	1	\$ 20
Pipe vise (fixed or portable)	\$ 375			1	1	\$ 375
Pipe wrench	\$ 30			2	2	\$ 60
Planer	\$ 2,400			1	1	\$ 2,400
Plier, multi-purpose groove joint	\$ 20	2	2	2	2	\$ 40
Pliers, combination slip joint	\$ 20	2	2	2	4	\$ 80
Pliers, diagonal cutting	\$ 15	2	2	2	2	\$ 30
Pliers, lineman side cutting	\$ 10		4	4	4	\$ 40
Pliers, Locking	\$ 15	2	2	2	2	\$ 30
Pliers, long needle nose side cutting	\$ 10	2	2	2	2	\$ 20
Plumb Bob	\$ 12	2	2	2	2	\$ 24
Pneumatic finish nail gun	\$ 400			1	1	\$ 400
Pneumatic framing nail gun	\$ 400	1	1	1	1	\$ 400

Pneumatic stapler	\$ 200		1	1	1	\$ 200
Portable belt sander	\$ 150			2	2	\$ 300
Portable circular saw	\$ 100	2	2	2	2	\$ 200
Portable power sander	\$ 100			4	4	\$ 400
Printer, Network or Dedicated	\$ 250	1	1	1	1	\$ 250
Propane torch kits	\$ 35			2	2	\$ 70
Pry Bar	\$ 19	2	2	2	2	\$ 38
Punch Set	\$ 50	1	1	1	1	\$ 50
PVC cutter	\$ 50			2	2	\$ 100
Radial arm saw, 10" - 12"	\$ 3,500	1	1	1	1	\$ 3,500
Router	\$ 150		2	2	2	\$ 300
Router bit set	\$ 200		1	1	1	\$ 200
Router cabinet door template system	\$ 800			1	1	\$ 800
Router door and jamb hinge template	\$ 150		1	1	1	\$ 150
Router dovetail kit	\$ 100			1	1	\$ 100
Ruler, Masonry Folding-6'	\$ 20	2	2	2	2	\$ 40
Safety Glasses/Goggles ( <b>per student</b> )	\$ 8	1	1	1	30	\$ 240
Saw, Band, 14" or larger	\$ 1,700		1	1	1	\$ 1,700
Saw, Compound Miter	\$ 600	1	1	1	1	\$ 600
Saw, Jig, variable speed	\$ 100	1	2	4	4	\$ 400
Saw, Metal Chop	\$ 300	1	1	1	1	\$ 300
Saw, Reciprocating	\$ 150	1	1	1	1	\$ 150
Saw, Scroll	\$ 350			1	1	\$ 350
Saw, Table, 10" minimum	\$ 3,500	1	1	1	1	\$ 3,500
Screwdriver, assorted + & -	\$ 25	2	2	2	2	\$ 50
Shovel, round point	\$ 40	2	2	2	2	\$ 80
Shovel, square point	\$ 40	2	2	2	2	\$ 80
Socket set, English	\$ 60	2	2	2	2	\$ 120
Socket set, Metric	\$ 60	2	2	2	2	\$ 120
Square, Combination	\$ 10	4	4	4	6	\$ 60
Square, Framing	\$ 15	4	4	4	4	\$ 60
Square, Speed or Try	\$ 10	4	4	4	6	\$ 60
Square, T - 4'	\$ 18			1	1	\$ 18
Tape Measure (16'-50')	\$ 14	5	5	5	5	\$ 70
Tape, Measure (100')	\$ 25	1	1	1	1	\$ 25
Tin snips set (left, right, center)	\$ 30	2	2	2	2	\$ 60
Triangle, 30/60 degrees and 45 degrees	\$ 5				6	\$ 30

Triangular Scales (Architect, Civil Engineer, Metric)	\$ 15				15	\$ 225
Vise clamps	\$ 14				6	\$ 84
VOM, multi tester/clamp on current tester	\$ 150	1	1	1	2	\$ 300
Water hose 100'	\$ 40	1	1	1	1	\$ 40
Wheelbarrow	\$ 200	1	1	1	1	\$ 200
Whiteboard with Markers	\$ 175	1	1	1	1	\$ 175
Wire strippers	\$ 17			4	4	\$ 68
Wood bits, Power set	\$ 15	1	1	1	1	\$ 15
Wood Rasp Set	\$ 12	2	2	2	2	\$ 24
Work bench, wooden	\$ 500		4	4	4	\$ 2,000
Wrench, Adjustable Set (6", 8", 10", 12")	\$ 25	1	1	1	2	\$ 50
Wrench, Combination Set (English & Metric)	\$ 120	1	1	1	2	\$ 240

OPTIONAL: Trainers, CNC Systems, and Simulators that enhance student learning, raise student achievement, meet industry standards, and have SDE approval.

**\$ 36,529**