



**Program of Study Scope & Sequence  
with  
Certification Outcomes**

Construction Trades - Weinman/Miller/Keslar/Lehnhardt

**46.9999 POS Task List 2023-**

**2025**

Task #	Task Description	Level/ Marking Pd	46.9999 Construction Trades	47-2021.00 Brick and Block mason	47-2051.00 Cement Masons and Concrete Finisher	47-2111.00 Electrician	47-2031.00 Carpenters	47-2152.00 Plumbers, Pipefitters, and Steamfitters	Certification
	<b>100 Construction Trades Safety</b>								
101	Follow Occupational Safety and Health Administration (OSHA) standards.	1	X	X	X	X	X	x	Osha 10
102	Evaluate Safety Data Sheets (SDS).	1	X	X	X	x	X	x	
103	Work with hazardous materials.	1	X	X	X	x	X	x	

104	Use personal protective equipment (PPE).	1	X	X	X	x	X	x	
105	Follow rules and regulations for fire protection.	1	X	X	X	x	X	x	
106	Handle and store construction materials.	1	X	X	X	x	X	x	
107	RESERVED (107)								
108	RESERVED (108)								
109	Follow electrical safety procedures.	1	X	X	X	x	X	x	
110	Differentiate between stuck-by and caught-in-between hazards.	1	X	X	X	x	X	x	
111	Follow working from heights safety procedures.	1	X	X	X	x	X	x	
112	Follow excavation site safety procedures.	1	X	X	X	x	X	x	
113	RESERVED (113)								
114	Follow concrete and masonry safety procedures.	1	X	X	X		X	x	
115	Use ladders and scaffolding.	1	X	X	X		X	x	American Ladder
116	Follow safety procedures working in confined spaces.	1	X	X	X		X	x	
117	RESERVED (117)								

	<b>200 Hand Tools</b>								
201	Use and maintain hand tools.	1	X	X	X	x	X	x	
202	Use and maintain layout and measuring tools.	1	X			x	X	x	
203	Use and maintain cutting tools.	2	X			x	X	x	
	RESERVED (204)								
205	Use and maintain fastening tools.	2	X			x	X	x	
206	Use and maintain dismantling tools.	1	X			x	X	x	
	<b>300 Power Tools and Equipment</b>								
301	Operate a circular saw.	1	X			x	X	x	
302	Operate battery and electric drills and drivers.	1	X			x	X	x	
303	Operate belt and hand sanders.	1	X				X		
304	Operate reciprocating and oscillating saws.	1	X			x	X	x	
305	Operate routers.	2	X				X		

306	Operate a pneumatic and battery-operated nailer.	2	X				X		
307	Operate a miter saw.	1	X				X	x	
308	Operate a table saw.	1	X				X		
309	Operate an electric planer.	2	X				X		
310	Operate a grinder.	2	X			x	X	x	
	RESERVED (311)								
	<b>400 Plans and Blueprints</b>								
401	Interpret building codes, zoning regulations, and permits.	2	X			x	X	x	
	RESERVED (402)								
403	Interpret plans, sketches, and blueprints.	2	X			x	X	x	
404	Interpret standard abbreviations and symbols.	1	X			x		x	
405	Estimate material from a print.	3?	X			x	X	x	
406	Use an architect scale.	3?	X			x	X	x	
407	Identify structural components.	3?	X			x	X	x	

408	Interpret Americans with Disabilities Act (ADA) regulations.	3?	X			x	X	x	
409	Identify mechanical fasteners, hangers and devices.	3?	X			x	X	x	
	<b>500 Site and Building Layout</b>								
501	Use a builder's level, transit, and/or laser level to determine site layout and building elevations.	2	X			x	X	x	
502	Square a structure using the Pythagorean Theorem and diagonals.	2	X				X		
	<b>600 Concrete</b>								
601	Use modern concrete materials.	2,3	X		X				
602	Determine appropriate concrete finishing processes and equipment.	2,3	X		X				
603	Estimate the amount of concrete needed for footers and slabs.	2,3	X		X				
604	Lay out and build concrete forms.	2,3	X		X				

605	Use equipment and tools for concrete.	2,3	X		X				
606	Prep and place concrete.	2,3	X		X				
607	Perform basic concrete finishing processes.	2,3	X		X				
608	Use tools to edge, groove, and cut concrete.	2,3	X		X				
609	Identify the uses of admixtures and sealers.	2,3	X		X				
	<b>700 Block and Brick Masonry</b>								
701	Identify common types of masonry units.	1,2	X	X					
702	Identify concrete block by size and type.	1,2	X	X					
703	Estimate masonry units needed for block construction.	1,2	X	X					
704	Use masonry cutting techniques.	2	X	X					
705	Lay out and construct a block laying project.	1,2	X	X					
706	Perform masonry positions and bonds.	1,2	X	X					
707	Lay block to a line.	1,2	X	X					
708	Install masonry fasteners.	1,2	X	X					

709	RESERVED								
710	Mix mortar to proper proportions and consistency.	1	X	X					
	<b>800 Floor Framing</b>								
801	Identify framing materials and systems.	1	X				X		
802	Install girders and sills.	1	X				X		
803	Perform layout of floor joists and openings.	1	X				X		
804	Install floor joists and band joists.	1	X				X		
805	Install bridging.	1	X				X		
806	Install columns and supports.	2	X				X		
807	Install subfloor materials.	1	X				X		
808	Estimate framing material and systems.	2	X				X		
	<b>900 Wall Framing</b>								
901	Install components of interior and exterior walls.	2	X				X		
902	Install ceiling systems.	3	X				X		
903	Install steel framing components.	3	X				X		

904	Identify framing materials and systems.	2	X				X		
905	Estimate framing material and systems.	3	X				X		
	<b>1000 Roof Framing</b>								
1001	Identify framing materials and systems.	1	X				X		
1002	Install roof components for gable roofs.	2	X				X		
1003	Install roof trusses.	2	X				X		
1004	Install roof sheathing materials.	2	X				X		
	RESERVED (1005)								
1006	Calculate, layout, and cut roof rafters.	1	X				X		
1007	Estimate framing material and systems.	2	X				X		
	<b>1100 Roof Coverings</b>								
1101	Install asphalt shingles.	2	X				X		
1102	Install underlayment materials.	2	X				X		
1103	Install flashing.	2	X				X		



1104	Identify roof covering materials and systems.	2	X				X		
1105	Estimate roof covering materials and systems.	3	X				X		
	<b>1200 Insulation Materials</b>								
1201	Install insulation and ventilation.	2	X				X		
1202	Identify insulation and ventilation materials.	2	X				X		
1203	Estimate insulation and ventilation materials.	2	X				X		
	<b>1300 Exterior Finishes</b>								
1301	Install horizontal sidings.	2	X				X		
1302	Install vertical sidings.	2	X				X		
	RESERVED (1303)								
1304	Identify exterior finish materials.	2	X				X		
1305	Install windows.	2	X				X		
1306	Install exterior doors.	2	X				X		
1307	Install soffit and fascia.	2	X				X		
1308	Install house wrap.	2	X				X		

1309	Estimate exterior finish materials.	2	X				X		
	<b>1400 Basic Plumbing</b>								
1401	Use and maintain basic plumbing tools.	1,2	X					x	
	RESERVED (1402)								
1403	Identify pipes and fittings.	1	X					x	
	RESERVED (1404)								
1405	Install pipes, fittings, valves, and devices.	1,2	X					x	
1406	Install faucets and drain assemblies.	2	X					x	
	RESERVED (1407)								
	RESERVED (1408)								
1409	Install water supply systems.	2	X					x	
1410	Install drain, waste, and vent systems.	2	X					x	
1411	Install fixtures and equipment.	2	X					x	
1412	Troubleshoot and repair common plumbing problems.	1,2	X					x	
1413	Estimate pipes and fittings.	1,2	X					x	

	<b>1500 Residential Electric Circuits and Components</b>								
1501	Practice electrical safety.	1,2	X			x			
1502	Apply the National Electric Code (NEC) to common residential installations.	1,2	X			x			
1503	Interpret electrical drawings.	2	X			x			
1504	Apply electrical theory.	1,2	X			x			
1505	Construct electrical circuits.	1,2	X			x			
1506	Install residential wire.	1,2	X			x			
1507	Use electrical tools.	1,2	X			x			
1508	Install ground fault circuit interrupters.	1,2	X			x			
1509	Install arc fault circuit interrupters.	1,2	X			x			
1510	Install over current protection devices.	1,2	X			x			
1511	Install electrical boxes.	1,2	X			x			
	RESERVED (1512)								
1513	Install light fixtures.	2	X			x			
1514	Install receptacle circuits.	1,2	X			x			

1515	Install switch circuits.	1,2	X			x			
1516	Install a 220-volt circuit.	1	X			x			
	RESERVED (1517)								
1518	Trim out and finish electrical circuits.	2	X			x			
1519	Install service entrance.	1,2	X			x			
	RESERVED (1520)								
	RESERVED (1521)								
	<b>1600 Wall Components</b>								
1601	Install drywall.	2	X				X		
1602	Install interior moldings.	2	X				X		
1603	Identify drywall materials.	2	X				X		
1604	Identify interior moldings.	2	X				X		
1605	Estimate drywall materials.	2	X				X		
1606	Estimate interior moldings.	2	X				X		
	<b>1700 Interior Finishes</b>								
1701	Identify paints, stains, and their uses.	2,3	X						

