

Unit/Standard Number	<p style="text-align: right;"><u>High School Graduation Years 2020, 2021 and 2022</u></p> <p style="text-align: center;"><b>Construction Trades CIP 46.9999 Task Grid</b></p>	<p style="text-align: center;">Proficiency Level Achieved: (X) Indicates Competency Achieved to Industry Proficiency Level</p>
<b>Secondary Competency Task List</b>		
<b>100</b>	<b>CONSTRUCTION TRADES SAFETY</b>	
101	Follow OSHA standards.	
102	Explain hazard communications.	
103	Work with hazardous materials.	
104	Use personal protective equipment.	
105	Follow rules and regulations for fire protection.	
106	Handle and store construction materials.	
107	RESERVED	
108	RESERVED	
109	Follow electrical safety procedures.	
110	Differentiate "stuck-by" and "caught-in-between" hazards.	
111	Follow working from heights safety procedures.	
112	Follow excavation site safety procedures.	
113	RESERVED	
114	Follow concrete and masonry safety procedures.	
115	Use ladders and scaffolding.	
116	Follow safety procedures working in confined spaces.	
117	RESERVED	
<b>200</b>	<b>HAND TOOLS</b>	
201	Use and maintain hand tools.	
202	Use and maintain layout & measuring tools.	
203	Use and maintain cutting tools.	
204	Use and maintain shaping tools.	
205	Use and maintain fastening tools.	
206	Use and maintain dismantling tools.	
<b>300</b>	<b>POWER TOOLS AND EQUIPMENT</b>	
301	Operate a circular saw.	
302	Operate battery and electric drills.	
303	Operate belt and hand sanders.	
304	Operate reciprocating saws.	
305	Operate routers.	
306	Operate a pneumatic nailers.	

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307	Operate a miter saw.	
308	Operate a table saw.	
309	Operate an electric planer.	
310	Operate a grinder.	
311	Operate powder-actuated tools.	
<b>400</b>	<b>PLANS AND BLUEPRINTS</b>	
401	Interpret building codes, zoning regulations and permits.	
402	RESERVED	
403	Interpret plans, sketches and blueprints.	
404	Interpret standard abbreviations and symbols.	
405	Estimate material from a print.	
406	Use an Architect scale.	
407	Identify structural components.	
408	Interpret Americans with Disabilities Act (ADA) regulations.	
<b>500</b>	<b>SITE AND BUILDING LAYOUT</b>	
501	Use a builder's level, transit and/or laser level to determine site layout and building elevations.	
502	Square a structure using Pythagorean Theorem or by measuring diagonals.	
<b>600</b>	<b>CONCRETE</b>	
601	Use modern concrete materials.	
602	Determine appropriate concrete finishing processes and equipment.	
603	Estimate the amount of concrete needed for footers and slabs.	
604	Lay out and build concrete forms.	
605	Use equipment and tools for concrete.	
606	Prep and place concrete.	
607	Perform basic concrete finishing processes.	
608	Use tools to edge, groove, and cut concrete.	
<b>700</b>	<b>BLOCK AND BRICK MASONRY</b>	
701	Describe the most common types of masonry units.	
702	Identify concrete block by size and type.	
703	Estimate masonry units needed for block construction.	
704	Use masonry cutting techniques.	

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705	Lay out and construct a block laying project.	
706	Perform various masonry positions and bonds.	
707	Lay block to a line.	
708	Install masonry fasteners.	
709	RESERVED	
710	Mix mortar to proper proportions and consistency.	
711	Compare mortar types and applications.	
712	Perform proper brick and block laying techniques.	
713	Install block or brick walls.	
<b>800</b>	<b>FLOOR FRAMING</b>	
801	Identify and estimate different types of framing materials and systems.	
802	Install girders and sills.	
803	Perform layout of floor joists and openings.	
804	Install various floor joists and band joists.	
805	Install various types of bridging.	
806	Install various types of columns and supports.	
807	Install various types of subfloor materials.	
<b>900</b>	<b>WALL FRAMING</b>	
901	Install various components of interior and exterior walls.	
902	Install various ceiling systems.	
903	Install various steel framing components.	
904	Identify and estimate different types of framing materials and systems.	
<b>1000</b>	<b>ROOF FRAMING</b>	
1001	Identify and estimate different types of framing materials and systems.	
1002	Install various roof components for gable roofs.	
1003	Install various types of roof trusses.	
1004	Install various types of roof sheathing materials.	
1005	RESERVED	
1006	Calculate, layout and cut roof rafters.	
<b>1100</b>	<b>ROOF COVERINGS</b>	
1101	Install various types of asphalt shingles.	

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1102	Install various types of underlayment materials.	
1103	Install various types of flashing.	
1104	Identify and estimate different types of roof covering materials and systems.	
<b>1200</b>	<b>INSULATION MATERIALS</b>	
1201	Install various types of insulation and ventilation.	
1202	Identify and estimate different types of insulation and ventilation materials.	
<b>1300</b>	<b>EXTERIOR FINISHES</b>	
1301	Install various types of horizontal sidings.	
1302	Install various types of vertical sidings.	
1303	RESERVED	
1304	Identify and estimate different types of exterior finish materials.	
1305	Install various types of windows.	
1306	Install various types of exterior doors.	
1307	Install various types of soffit and fascia.	
1308	Install house wrap.	
<b>1400</b>	<b>BASIC PLUMBING</b>	
1401	Use and maintain basic plumbing tools.	
1402	RESERVED	
1403	Identify and estimate different types of pipes and fittings.	
1404	RESERVED	
1405	Install various types of pipes, fittings, valves and devices.	
1406	Install faucets and drain assemblies.	
1407	RESERVED	
1408	RESERVED	
1409	Install water supply systems.	
1410	Install drain, waste and vent systems.	
1411	Install fixtures and equipment.	
1412	Troubleshoot and repair common plumbing problems.	
<b>1500</b>	<b>RESIDENTIAL ELECTRIC CIRCUITS AND COMPONENTS</b>	
1501	Identify electrical hazards and practice electrical safety.	
1502	Apply the National Electric Code (NEC) to common residential installations.	

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1503	Interpret electrical drawings.	
1504	Apply electrical theory.	
1505	Construct electrical circuits.	
1506	Use various wire types and sizes.	
1507	Use electrical tools.	
1508	Install ground fault circuit interrupters.	
1509	Install arc fault circuit interrupters.	
1510	Install over current protection devices.	
1511	Install various electrical boxes.	
1512	RESERVED	
1513	Install various light fixtures.	
1514	Install various receptacle circuits.	
1515	Install various switch circuits.	
1516	Install a 220-volt circuit.	
1517	RESERVED	
1518	Trim out and finish electrical circuits.	
1519	Identify service entrance installation.	
1520	Install low voltage electrical circuits.	
1521	Install electrical panel installation.	
<b>1600</b>	<b>WALL COMPONENTS</b>	
1601	Install various wall surfaces (including drywall).	
1602	Install various interior moldings.	
1603	Identify and estimate various materials for wall surfaces.	
1604	Identify and estimate various types of interior moldings.	
<b>1700</b>	<b>INTERIOR FINISHES</b>	
1701	Identify and estimate different types of paints, stains and their uses.	
1702	Apply different paints and stains to different surfaces.	
1703	Clean painting tools.	
1705	Apply various types of caulking.	
1706	Install ceramic tile.	
<b>1800</b>	<b>STAIRWAYS</b>	
1801	Identify and estimate different types of stairways and components.	

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1802	Calculate, layout and cut stair stringers.	
1803	Install stairways and components.	