

Crawford County  
**Career**  **Technical**  
 Center

Unit/Standard Number	<b>Carpentry/Carpenter</b> <b>CIP 46.0201</b> <b>Task Grid</b>	<b>Proficiency Level</b> <b>Achieved:</b> <b>(X) Indicates</b> <b>Competency</b> <b>Achieved to Industry</b> <b>Proficiency Level</b>
	<b>Secondary Competency Task List</b>	
<b>100</b>	<b>SAFETY/OCCUPATIONAL ORIENTATION</b>	
101	Identify and follow all basic safety practices and procedures.	
102	Identify and follow all lab safety practices and procedures.	
103	Identify and follow all construction industry safety practices and procedures.	
104	Follow procedures in Safety Data Sheets (SDS) system.	
105	Identify and follow all OSHA safety standards at the construction site.	
106	RESERVED	
107	Demonstrate the ability to construct scaffolding.	
<b>200</b>	<b>HAND TOOLS</b>	
201	Demonstrate proper use of small hand tools.	
202	Demonstrate proper use of sawing tools.	
203	Demonstrate proper use of fastening tools.	
204	Demonstrate proper use of measuring tools.	
205	Demonstrate proper use of cutting tools.	
206	Demonstrate the ability to sharpen cutting tools.	
207	Demonstrate proper use of ladders.	
208	Demonstrate proper use of finishing tools.	
209	Demonstrate the ability to properly maintain hand tools.	
<b>300</b>	<b>POWER TOOLS</b>	
301	Demonstrate proper use of stationary electric power tools.	

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302	Demonstrate proper use of pneumatic tools systems.	
303	Demonstrate proper use of portable electric power tools.	
304	Demonstrate proper maintenance of electric power tools.	
305	Demonstrate proper maintenance of pneumatic power tools.	
<b>400</b>	<b>BLUEPRINTS READING</b>	
401	Read and interpret blueprints.	
402	Read, interpret and comprehend standard symbols and abbreviations.	
403	Read and interpret building specifications.	
404	Read and interpret a plot plan.	
405	Read and interpret a foundation plan.	
406	Read and interpret elevation plans.	
407	Read and interpret details and section views.	
408	Read and interpret floor, wall and roof framing plans.	
409	Demonstrate the knowledge of building and zoning codes.	
410	Demonstrate knowledge of the Americans with Disabilities Act (ADA) regulations.	
<b>500</b>	<b>SITE PREPARATION AND LAYOUT</b>	
501	Determine factors needed to be considered before the start of a building project.	
502	Demonstrate knowledge to acquire a building permit.	
503	Determine knowledge of PA One Call System, Inc.	
504	Describe how to establish elevations and grades from benchmarks using a transit level.	
505	Demonstrate how to stake out a building foundation using the Pythagorean theorem.	
506	Demonstrate knowledge on how to use batter boards.	
<b>600</b>	<b>FOOTINGS AND FOUNDATIONS</b>	
601	Demonstrate how to determine footer type.	
602	Demonstrate proper use of leveling instruments.	
603	Demonstrate and establish footer lines and elevations.	
604	Demonstrate layout and construct forms.	
605	Demonstrate layout and construct footers.	

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606	Demonstrate layout foundations.	
607	Demonstrate layout and construct forms for concrete slabs.	
608	Demonstrate knowledge of how to properly install reinforcing bars.	
609	Demonstrate knowledge of how to properly erect vertical and horizontal framework.	
<b>700</b>	<b>FRAMING - FLOOR CONSTRUCTION</b>	
701	Determine methods used to fasten sill plates.	
702	Properly install fasteners used in floor framing.	
703	Properly measure and install sill plates.	
704	Properly measure and install floor joists, including manufactured floor joists.	
705	Properly measure and install joists for a cantilever floor.	
706	Properly layout and construct cross and solid bridging.	
707	Properly layout and install sub-flooring.	
708	Properly measure and frame floor openings.	
<b>800</b>	<b>FRAMING - WALL CONSTRUCTION</b>	
801	Determine fastening methods and properly install fasteners in wall construction.	
802	Properly measure, layout and construct a wall.	
803	Properly select and install various types of insulation.	
804	Properly measure, layout and construct door openings.	
805	Properly measure, layout and construct window openings.	
806	Properly measure, layout and construct solid headers.	
807	Properly measure, layout and install sheathing.	
808	Properly plumb, align and brace walls.	
809	Demonstrate knowledge of steel framing/properly install metal studs.	
<b>900</b>	<b>FRAMING - ROOF CONSTRUCTION</b>	
901	Determine fastening methods used during roof construction.	
902	Properly install fasteners used in roof construction.	
903	Properly measure, layout, cut and install a ridgeboard.	
904	Properly measure, layout, cut and install hip, jack and truss rafters.	

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905	Properly measure, layout, cut and install roof trusses.	
906	Properly measure, layout, cut and install brace roof trusses.	
907	Properly measure, layout, cut and install roof sheathing.	
908	Properly measure, layout, cut and install roof openings.	
909	RESERVED	
910	Properly measure, layout, cut and install roofing paper.	
911	Properly measure, layout, cut and install shingles.	
912	Properly measure, layout, cut and install capping.	
<b>1000</b>	<b>EXTERIOR FINISH</b>	
1001	Determine fastening methods used during exterior finishing operations.	
1002	Properly install fasteners used in exterior finishing operations.	
1003	Properly measure, layout and install house wrap.	
1004	Properly measure, layout and install exterior doors.	
1005	Properly measure, layout and install windows.	
1006	Properly measure, layout and install siding.	
1007	Properly measure, layout and install soffits and fascias.	
1008	Properly measure, layout and install gutters and downspouts.	
1009	Properly measure, layout and install an exterior set of stairs.	
<b>1100</b>	<b>INTERIOR FINISH</b>	
1101	Determine fastening methods used during interior finishing operations.	
1102	Properly install fasteners used in interior finishing operations.	
1103	Properly measure, layout and install tape and finish drywall.	
1104	Properly measure, layout and install suspended and tile ceilings.	
1105	Properly measure, layout and install interior doors.	
1106	Properly measure, layout and install a door, trim, casings and hardware.	
1107	Properly measure, layout and install window trim, casings and hardware.	
1108	Properly measure, layout and install baseboard and molding.	
1109	Properly measure, layout and install hardwood, tile and block flooring.	
1110	Properly measure, layout and install an interior set of stairs.	

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<b>1200</b>	<b>ESTIMATION</b>	
1201	Demonstrate knowledge of how to estimate bricks and blocks needed to complete a given task.	
1202	Correctly estimate the amount of concrete needed to complete a given task.	
1203	Correctly estimate the cost and amount of materials to finish an exterior wall.	
1204	Correctly estimate the cost and amount of materials to finish an interior wall.	
1205	Correctly estimate the cost and amount of materials to construct a floor.	
1206	Correctly estimate the cost and amount of materials to construct a roof.	
1207	Correctly estimate the cost and amount of materials to install siding for a house.	