Pennsylvania CTE

46.0201 Carpentry/ Carpenter

Safety/Occupational Orientation 100	**101** Identify and follow all basic safety practices and procedures. 101
	102 Identify and follow all lab safety practices and procedures. 102
	103 Identify and follow all construction industry safety practices and procedures. 103
	104 Follow procedures in Safety Data Sheets (SDS) system. 104
	105 Identify and follow all OSHA safety standards at the construction site. 105
	107 Demonstrate the ability to construct scaffolding. 107
Hand tools 200	**201** Demonstrate proper use of small hand tools. 201
	202 Demonstrate proper use of sawing tools. 202
	203 Demonstrate proper use of fastening tools. 203
	204 Demonstrate proper use of measuring tools. 204
	205 Demonstrate proper use of cutting tools. 205
	206 Demonstrate the ability to sharpen cutting tools. 206
	207 Demonstrate proper use of ladders. 207
	208 Demonstrate proper use of finishing tools. 208
	209 Demonstrate the ability to properly maintain hand tools. 209
Power Tools 300	**301** Demonstrate proper use of stationary electric power tools. 301
	302 Demonstrate proper use of pneumatic tools systems. 302
	303 Demonstrate proper use of portable electric power tools. 303
	304 Demonstrate proper maintenance of electric power tools. 304
	Demonstrate proper maintenance of pneumatic power tools. 305

Skip to main content

Blueprints Reading 400	**401** Read and interpret blueprints. 401
	402 Read, interpret and comprehend standard symbols and abbreviations. 402
	403 Read and interpret building specifications. 403
	404 Read and interpret a plot plan. 404
	405 Read and interpret a foundation plan. 405
	406 Read and interpret elevation plans. 406
	407 Read and interpret details and section views. 407
	408 Read and interpret floor, wall and roof framing plans. 408
	409 Demonstrate the knowledge of building and zoning codes. 409
	410 Demonstrate knowledge of the Americans with Disabilities Act (ADA) regulations. 410
Site Preparation and Layout 500	**501** Determine factors needed to be considered before the start of a building project. 501
	502 Demonstrate knowledge to acquire a building permit. 502
	503 Determine knowledge of PA One Call System, Inc. 503
	504 Describe how to establish elevations and grades from benchmarks using a transit level. 504
	505 Demonstrate how to stake out a building foundation using the Pythagorean theorem. 505
	506 Demonstrate knowledge on how to use batter boards. 506
Footings and Foundations 600	**601** Demonstrate how to determine footer type. 601
	602 Demonstrate proper use of leveling instruments. 602
	603 Demonstrate and establish footer lines and elevations. 603
	604 Demonstrate layout and construct forms. 604
	605 Demonstrate layout and construct footers. 605
	606 Demonstrate layout foundations. 606
	607 Demonstrate layout and construct forms for concrete slabs. 607

Skip to main content

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

Skip to main content

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

	1110	**Properly measure, layout and install an interior set of stairs.** 1110
Estimation 1200	1201	**Demonstrate knowledge of how to estimate bricks and blocks needed to complete a given task.** 1201
	1202	**Correctly estimate the amount of concrete needed to complete a given task.** 1202
	1203	**Correctly estimate the cost and amount of materials to finish an exterior wall.** 1203
	1204	**Correctly estimate the cost and amount of materials to finish an interior wall.** 1204
	1205	**Correctly estimate the cost and amount of materials to construct a floor.** 1205
	1206	**Correctly estimate the cost and amount of materials to construct a roof.** 1206
	1207	**Correctly estimate the cost and amount of materials to install siding for a house.** 1207