

**TRACK Carpentry Standards and Blueprint**

STD. CODE	STANDARDS	RESOURCE 1	RESOURCE 2	COURSE 1	COURSE 2	COURSE 3	COURSE 4	TEST BLUEPRINT	75 QUESTIONS
<b>OA</b>	<b>Math for the Trades</b>	Career Connect	NCCER	Construction Technology	Floor and Wall Framing	Ceiling and Roof Framing	Site Layout and Foundations	20%	15
OA1	Add, subtract, multiply, and divide single-, double-, and triple-digit numbers								
OA2	Use mixed fractions to add, subtract, multiply, and divide parts of numbers								
OA3	Convert fractions to decimals and decimals to fractions, and use decimals to find percentages								
OA4	Use and understand how to read measuring tools								
OA5	Construct layouts using lines, circles, and angles								
OA6	Explain square roots, square numbers, and the Pythagorean Theorem								
OA7	Use area measure to find the area of rectangles, squares, and circles								
OA8	Use volume measure to calculate the volume of three-dimensional objects								
<b>OB</b>	<b>Wood and Metal Framing</b>	2,3	1,2		Floor and Wall Framing	Ceiling and Roof Framing		13%	10
OB1	Understand the applications of wood and metal framing (e.g., workability, varied sizes and shapes, ease of operation, fire resistance, sound transmission, structural fasteners and their application)								
OB2	Identify wood and metal framing components and their sizes; gauges of metal; types and shapes of beams, columns, and pilasters; and various trims and fasteners used for interior partition work								
OB3	Read prints and specifications to determine the type of partition and its location, layout, and related requirements								
OB4	Identify, estimate and describe installation of floor, ceiling and wall covering (e.g., suspended ceiling, drywall, drywall finishing, door and door hardware, trim, paneling)								
<b>OC</b>	<b>Building Layout</b>	3	2				Site Layout and Foundations	13%	9
OC1	Demonstrate an understanding of the building layout process, including safety procedures, tools, materials, survey instruments, point of beginning, and benchmark								
OC2	Identify and read relevant sections of the building plan								
OC3	Identify tools and materials required in the building layout process								

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<b>OD</b>	<b>Formwork / Foundations</b>	<b>3</b>	<b>3</b>				Site Layout and Foundations	<b>17%</b>	<b>13</b>
OD1	Explain the properties of concrete and the purposes and specifications of formwork / foundation								
OD2	Identify types and components of forms (e.g., footers, wall forms, bridge forms, slab)								
OD3	Identify basic measures and materials used in formwork (e.g., form material, concrete, concrete block, reinforcement)								
OD4	Name important structural components that can be fabricated from formwork / foundation and concrete (e.g. piers, columns, pile caps)								
<b>OE</b>	<b>Hand and Power Tools</b>	<b>1,2,3</b>	<b>1</b>	<b>Construction Technology</b>	<b>Floor and Wall Framing</b>	<b>Ceiling and Roof Framing</b>	Site Layout and Foundations	<b>17%</b>	<b>13</b>
OE1	Identify the components of and demonstrate the safe and proper use of hand tools (e.g., fastening devices, leveling devices, edge cutting devices)								
OE2	Identify the components of and demonstrate the safe and proper use of power tools (e.g., electric portable, cordless and stationary, powder-actuated, pneumatic)								
<b>OF</b>	<b>Health and Safety</b>	<b>1,2,3</b>	<b>1,2,3,4</b>	<b>Construction Technology</b>	<b>Floor and Wall Framing</b>	<b>Ceiling and Roof Framing</b>	Site Layout and Foundations	<b>20%</b>	<b>15</b>
OF1	Assume responsibility for safety of self and others								
OF2	Identify personal protective equipment of the trade (e.g., eye protection, harnesses, footwear)								
OF3	Identify safety standards and procedures based on "OSHA 1926 Standards"								
OF4	Manage personal health and wellness (e.g., substance abuse, air pollutants, chemicals, workplace toxins)								

**100%**

**75**

Rev. 2023-2024