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correlated to

**North Carolina
Trade and Industrial Education
Course Blueprint for 7721 Construction–Carpentry I**

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CORRELATED TO

**NORTH CAROLINA
TRADE AND INDUSTRIAL EDUCATION
COURSE BLUEPRINT FOR 7721 CONSTRUCTION–CARPENTRY I**

OBJECTIVES	PAGE REFERENCES
A ORIENTATION TO THE CARPENTRY TRADE – Module 27101	
1C01 Demonstrate an understanding of the carpentry trade.	
1C01.01 Describe the kind of work a carpenter does.	SE: 26–28, 45 IRG: 50, 66, 67, 68, 69, 70–71, 97–98
1C01.02 Discuss the relationship between the carpentry trade and other construction trades.	SE: 26–32, 45 IRG: 66, 83, 85, 97–98
1C01.03 Describe the type of conditions under which a carpenter works.	SE: 41–44, 45 IRG: 50–51, 52–54, 55, 56–58, 59–60, 61, 66, 67, 68, 69, 70–71, 73, 74
1C01.04 List the responsibilities an apprentice has in the program.	SE: 27, 29, 45, 93 IRG: 55, 97–98
1C01.05 Explain the importance of safety in the Construction Industry.	SE: 94–99, 100–110, 111 IRG: 33–34, 35–36, 38, 73, 105–106
B WOOD BUILDING MATERIALS, FASTENERS, AND ADHESIVES – Module 27102	
1C02 Exhibit knowledge of wood building materials, fasteners, and adhesives.	
1C02.01 Describe the different types of nails, screws, staples, anchors and adhesives.	SE: 161–162, 163, 182–187, 187–190, 191, 236–237, 246, 264, 328–329, 530–532, 547, 880–881 IRG: 113–114, 117–118, 133–134, 151–152
1C02.02 Explain the use of the fastening systems noted in number one above.	SE: 161–162, 163, 182–187, 187–190, 191, 236–237, 246, 264, 328–329, 530–532, 547, 880–881 IRG: 113–114, 117–118, 133–134, 151–152

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OBJECTIVES	PAGE REFERENCES
1C02.03 State where one system would be used and another not.	SE: 161–162, 163, 182–187, 187–190, 191, 236–237, 246, 264, 328–329, 530–532, 547, 880–881 IRG: 113–114, 117–118, 133–134, 151–152
1C02.04 Explain the purpose of MSDS sheets.	SE: 105–106 IRG: 105–106
1C02.05 Differentiate between “wood” and “lumber.”	SE: 288–297, 303 IRG: 129–130
1C02.06 Calculate the tally of lumber using the board-feet calculation.	SE: 78–79, 91 IRG: 129–130
1C02.07 Identify various species of soft and hard woods.	SE: 290–291 IRG: 129–130
1C02.08 Explain applications and uses of pressure treated products.	The opportunity to address this objective is available. See the following: SE: 291–297, 298–302, 303 IRG: 129–130
1C02.09 Explain the various common wood defects and grades of lumber.	SE: 294–297, 303 IRG: 129–130
1C02.10 State the uses of various types of engineered lumber.	SE: 305–312, 312–315, 315–317, 323, 325–335, 336–342, 343 IRG: 131–132, 133–134

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OBJECTIVES	PAGE REFERENCES
C HAND AND POWER TOOLS – Module 27103	
1C03 Demonstrate knowledge of and use hand and power tools.	
1C03.01 Identify the hand tools commonly used by carpenters and describe their uses.	SE: 113–116, 117–118, 119–121, 133–124, 125 IRG: 107–108
1C03.02 Use hand and power tools in a safe and appropriate manner.	SE: 101–104, 111 IRG: 32, 33–34, 35, 105–106
1C03.03 State the general safety rules for operating all power tools, regardless of type.	SE: 101, 102, 103, 111, 127, 153, 155, 163, 165, 181, 183, 191 IRG: 109–112, 113–114, 115–116, 117–118
1C03.04 State the general rules for properly maintaining all power tools, regardless of type.	SE: 129, 134, 144, 152, 153, 184–185, 186, 191 IRG: 109–112, 113–114, 115–116, 117–118
1C03.05 Identify the portable power tools commonly used by carpenters and describe their uses.	SE: 127–129, 146–147, 148–149, 153, 155–157, 163, 165–170, 171–174, 176–178, 179–180, 181, 183–185, 190, 191 IRG: 109–112, 113–114, 115–116, 117–118
1C03.06 Use portable and stationary power tools in a safe and appropriate manner.	SE: 101, 102, 103, 111, 127, 153, 155, 163, 165, 181, 183, 191 IRG: 109–112, 113–114, 115–116, 117–118

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D HANDS ON PROJECT	
1C04 Participate in the construction of a small house structure.	
1C04.01 Select site and establish elevations.	The opportunity to address this objective is available. See the following: SE: 227–228, 233 IRG: 123–124
1C04.02 Layout small building using transit and 3/4/5 method.	The opportunity to address this objective is available. See the following: SE: 219–225, 226–227, 233 IRG: 123–124
1C04.03 Build a floor system and floor covering.	The opportunity to address this objective is available. See the following: SE: 361–364, 365–381, 382–387, 388–390, 391, 855–859, 860–870, 871, 873–876, 877–884, 885 IRG: 137–138, 181–182, 183–184
1C04.04 Build wall sections with let-in braces.	The opportunity to address this objective is available. See the following: SE: 418 IRG: 139–140
1C04.05 Frame door and window openings.	The opportunity to address this objective is available. See the following: SE: 407–410, 421 IRG: 139–140

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1C04.06 Establish roof pitch and install roof system.	The opportunity to address this objective is available. See the following: SE: 424–429, 430–441, 447 IRG: 141–142
1C04.07 Frame gable end with louver opening.	The opportunity to address this objective is available. See the following: SE: 485–487 IRG: 145–146
1C04.08 Install a wall and roof sheathing.	The opportunity to address this objective is available. See the following: SE: 392, 418–420, 421, 481, 492–498, 499, 504 IRG: 139–140, 145–146
1C04.09 Frame roof cornice to receive finish.	The opportunity to address this objective is available. See the following: SE: 618–627, 633 IRG: 159–160
1C04.10 Install roofing and ridge vent.	The opportunity to address this objective is available. See the following: SE: 595–599, 600–603, 604–609, 612–616, 617 IRG: 157–158

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1C04.11 Install exterior finish.	The opportunity to address this objective is available. See the following: SE: 833–835, 836–846, 853 IRG: 179–180
1C04.12 Install interior finish.	The opportunity to address this objective is available. See the following: SE: 833–835, 847–852, 853 IRG: 179–180
E LEADERSHIP DEVELOPMENT	
1C05 Demonstrate communication, problem solving, and team building skills.	
1C05.01 Demonstrate communication skills.	SE: 32–37, 45, 86, 275, 699 IRG: 50, 61, 81, 97–98
1C05.02 Demonstrate problem solving and team building skills.	SE: 35–36, 323, 901 IRG: 50, 52, 61, 64, 97–98

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