

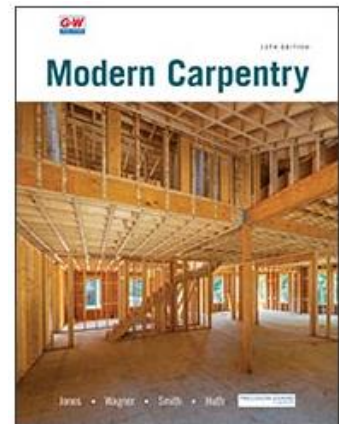


Modern Carpentry, 13th edition
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to

HBI Residential Carpentry Skill Standards

Goodheart-Willcox is pleased to partner with the Home Builder’s Institute by correlating *Modern Carpentry* to the Residential Carpentry Skill Standards.



The correlation chart below lists the Standards and Objectives for the Residential Carpentry exam in the left column. Corresponding content from *Modern Carpentry* that can be used by a student to help achieve the standard and objective is listed in the right column.

Standards / Objectives	Textbook Pages
Standard 1: Wood and Lumber	
Objective 1.1 Hardwood and softwood properties	pgs. 36–44
Objective 1.2 Moisture content	pgs. 38–41
Objective 1.3 Grades and sizes of lumber	pgs. 42–44, 50–51
Objective 1.4 Types & species of lumber	pgs. 37–38
Standard 2: Engineered Products, Panels & Sheet Goods	
Objective 2.1 Plywood	pgs. 45–50
Objective 2.2 OSB	pg. 51
Objective 2.3 Siding	pgs. 51, 56
Objective 2.4 Particleboard	pg. 51
Objective 2.5 Drywall, wallboard, cement board	pgs. 56, 512–514
Objective 2.6 Fiberboard (Hardboard, MDF & others)	pg. 51
Objective 2.7 Soft board (e.g., ceiling tiles)	pgs. 536–538
Objective 2.8 Insulation board	pgs. 385–386
Objective 2.9 Waterproofing membranes (plastic, etc.)	pgs. 63–64, 375–377
Objective 2.10 Plastic laminates	pgs. 631–634
Objective 2.11 Metal framing products	pgs. 56–60

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Standard 3: Engineered Structural Components	
Objective 3.1 Laminated veneer lumber	pgs. 53–54
Objective 3.2 Parallel strand lumber and laminated strand lumber	pg. 56
Objective 3.3 Wood & steel beams & columns	pgs. 221–225
Objective 3.4 Wood floor & roof trusses	pgs. 54–55
Objective 3.5 Steel floor & roof trusses	pgs. 54–55
Objective 3.6 Precast concrete structural components	pgs. 62, 192–197
Objective 3.7 Sheer panels (e.g., Simpson panels—regional)	pgs. 232, 754
Objective 3.8 Insulated structural panels (e.g., SIPs, EIFs)	pgs. 267–268, 690
Objective 3.9 Glue-laminated lumber	pg. 54
Standard 4: Fasteners	
Objective 4.1 Nails, screws, bolts, staples	pgs. 60–62, 64
Objective 4.2 Anchors, ties & connectors	pgs. 62, 57–60
Objective 4.3 Adhesives	pgs. 62–64
Objective 4.4 Framing hardware	pgs. 64, 233–234
Standard 5: Hand Tools	
Objective 5.1 Measuring and marking tools	pgs. 69–74
Objective 5.2 Leveling & layout tools	pgs. 70–74
Objective 5.3 Boring and cutting tools	pgs. 74–77
Objective 5.4 Fastening and dismantling tools	pgs. 77–81
Standard 6: Portable Power Tools	
Objective 6.1 Saws, drills and drivers	pgs. 88–96, 100–105
Objective 6.2 Planes, routers, and sanders	pgs. 96–98
Objective 6.3 Fastening tools (power-actuated, etc.)	pgs. 99–100
Standard 7: Stationary Tools	
Objective 7.1 Miter & chop saws	pgs. 100–102
Objective 7.2 Table saws	pgs. 103–105
Objective 7.3 Band saws	See also power saw, pgs. 75, 210
Objective 7.4 Sanders	pg. 98
Objective 7.5 Mortises, boring tools & shapers	pgs. 96–97
Objective 7.6 Joiner/planer	pgs. 96
Objective 7.7 Drill press	pgs. 93–96
Objective 7.8 Brakes	pg. 452

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Standard 8: Blueprints and Building Codes	
Objective 8.1 Site plans (Plot plans, etc.)	pgs. 127–128, 131–132
Objective 8.2 Building plans (floor plans, sections, elevations)	pgs. 130–137
Objective 8.3 Engineering drawings (trusses, foundations, seismic, connectors)	pgs. 133–137
Objective 8.4 Building codes and zoning regulations	pgs. 144–149
Standard 9: Construct Concrete Forms	
Objective 9.1 Characteristics & testing of concrete	pgs. 187–191
Objective 9.2 Identify concrete forms (panels, ICFs, etc.)	pgs. 192, 200–202
Objective 9.3 Lay out building lines	pgs. 172–174
Objective 9.4 Construct wall & column forms	pgs. 181–187
Objective 9.5 Construct concrete stair forms	pg. 208
Objective 9.6 Construct slab-on-grade forms (incl. Vapor barriers)	pgs. 204–206
Objective 9.7 Construct pier & footing forms	pgs. 176–181
Objective 9.8 Identify & place anchoring devices	pgs. 192, 197
Objective 9.9 Construct tie beam forms	pg. 187
Objective 9.10 Construct structural beam forms	pgs. 187
Objective 9.11 Construct curved arch forms	pgs. 185, 692
Objective 9.12 Construct lintel forms	pg. 197
Objective 9.13 Set elevated slab forms	pgs. 204–206
Objective 9.14 Place control/expansion joints	pgs. 209–210
Objective 9.15 Identify & place proper reinforcement	pg. 186
Objective 9.16 Place & finish concrete	pgs. 191–192, 201–202
Objective 9.17 Strip and clean forms	pg. 192
Standard 10: Alternative Foundations and Framing Systems	
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Objective 10.2 Log framing	pgs. 174–175, 203–204
Objective 10.3 CMU	pgs. 192–197
Standard 11: Insect Prevention	
Objective 11.1 Identification	pgs. 211–212
Objective 11.2 Techniques to Prevent Termites/Carpentry ants	pgs. 211–212, 226–227
Standard 12: Framing Systems	
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Objective 12.2 Platform Frame Construction	pgs. 218–220
Objective 12.3 Post-and-Beam Frame Construction	pgs. 218, 681–682, 684–688
Objective 12.4 Balloon Frame Construction	pgs. 218, 220–221
Objective 12.5 Modular frame systems	pgs. 702–703
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Objective 13.2 Install sill systems	pgs. 226–228
Objective 13.3 Install solid, composite, steel & built-up floor beams	pgs. 228–233
Objective 13.4 Install wood & steel columns	pgs. 224–225, 319–321
Objective 13.5 Layout, cut & install floor joists (TGIs, dimension lumber, etc)	pgs. 228–230
Objective 13.6 Install draft (fire) stops	pgs. 219–220
Objective 13.7 Frame floor opening	pgs. 233–235
Objective 13.8 Install cantilevered floor joists	pgs. 236–237
Objective 13.9 Install bridging and blocking	pgs. 235–236
Objective 13.10 Install subfloor sheathing	pgs. 239–240
Standard 14: Wall Framing with Wood	
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Objective 14.2 Lay out walls on floor deck or foundation	pgs. 249–250
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Objective 14.4 Cut wall plates	pgs. 250–251
Objective 14.5 Calculate lengths of wall components	pgs. 254–256
Objective 14.6 Cut studs, headers, jacks, rough sills and cripples	pgs. 251, 254–256
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