Correlation of

***Modern Carpentry, 14th Edition;* Jones, Wagner, Smith, and Huth**

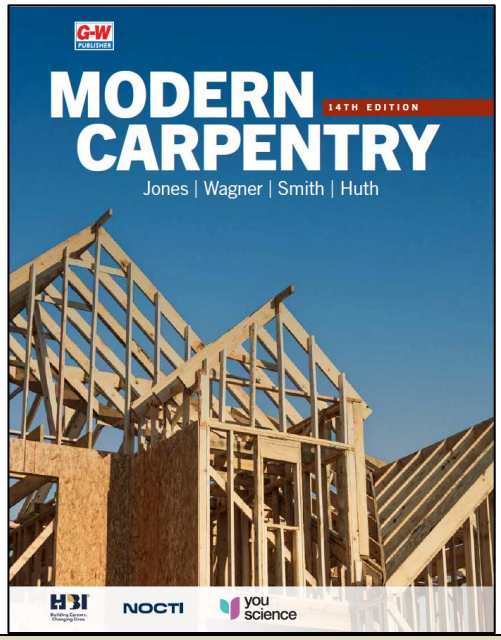
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to

SkillsUSA Competencies

The following chart lists the standards and competencies for the SkillsUSA Carpentry contest. Complete contest information is found in the SkillsUSA Championships Technical Standards. These standards are used by SkillsUSA student chapters preparing for the annual SkillsUSA Championships.

The standards, reproduced here in chart form, are correlated to the pages in the *Modern Carpentry* 14th edition textbook that provide useful information for the specific competency.



Standards and Competencies	Textbook Pages
Competency 1.0: Read blueprints and specifications by interpreting dimensions and specifications, as well as door, window and finish schedules while understanding common blueprint abbreviations and symbols	
Objective 1.1 Interpret and determine dimensions from multiple view drawings and build the project from plans, elevations, sections and details	pgs. 147–172, 177–178, 821, 844–846
Objective 1.2 Interpret specifications and drawing notes by verbally demonstrating how specifications are used	pgs. 147–172, 175 (Communicating about Carpentry)
Objective 1.3 Identify plot plan information such as reference points and bench marks by locating the reference point; using Pythagorean theorem, a level and square, the participant can lay out building as drawn on the plot plan	pgs. 177–182, 185–187
Objective 1.4 Interpret oral and written changes, and incorporate modifications into existing plans	pgs. 148 (Pro Tip), 175 (Communicating about Carpentry)
Objective 1.5 Understand common abbreviations and symbols, and verbally describe all common blueprint abbreviations and symbols on competition blueprints	pgs. 150–159, 162–165, 822, 844–845

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Objective 1.6 Interpret door, window and finish schedules by describing location, quantity and type of materials	pgs. 160, 162, 425–428, 430–433
Competency 2.0: Organize building site/materials in a safe and sequential manner while using builder's level and transit properly	
Objective 2.1 Use builder's level and transit properly for layout and elevation	pgs. 180–190
Objective 2.2 Identify, receive and inspect materials and ensure all required materials are in place prior to start of competition by using material lists supplied	pg. 196
Objective 2.3 Store lumber and other materials properly by type and use in a safe and sequential manner	pgs. 63–64, 196, 235–236
Competency 3.0: Build foundations and forms including the construction and alignment of footing forms, wall and wall forms, and column and pier forms	
Objective 3.1 Construct and align various footing forms to include keyways, bulkheads, dowels and anchorages, as per plans	pgs. 201–206
Objective 3.2 Construct and align foundation wall and wall forms to include pilasters and beam pockets	pgs. 199–200, 206–211
Objective 3.3 Construct and align column and pier forms	pg. 205
Objective 3.4 Maintain form materials properly	pgs. 199–211
Competency 4.0: Construct rough framing by identifying and selecting framing members, and installing frame components while meeting OHSA standards	
Objective 4.1 Identify framing members and select materials for project	pgs. 47, 52–62, 246–267, 274
Objective 4.2 Frame and install sill plate, girders, floor joists and bridging	pgs. 246–263
Objective 4.3 Frame floor	pgs. 246–267
Objective 4.4 Install sub-floor	pgs. 265–267
Objective 4.5 Build or erect safe scaffolding to meet OHSA standards	pgs. 130–137
Objective 4.6 Frame and brace walls to include corners, openings, trimmers, cripples, partitions, plumbing partitions, fixture backing and sheathing	pgs. 272–287
Objective 4.7 Frame stair stringer and other components	pgs. 601–610
Competency 5.0: Construct roof framing by determining rafter lengths, making calculations, laying out a plan, framing and installing roof sheathing	

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Objective 5.1 Identify types and components of roof construction and verbally describe all typical components of roof construction identified on the competition project blueprint	pgs. 303–339, 343 (Communicating about Carpentry)
Objective 5.2 Determine rafter lengths from a rafter scale	pgs. 309–311
Objective 5.3 Calculate and use the rise and run of a common roof	pgs. 309–311, 314–315, 317–318, 340
Objective 5.4 Lay out a common roof plan	pgs. 304–307, 309–312
Objective 5.5 Lay out, cut and install common rafters, ridge board, collar ties, gambrel rafters, valley rafters, valley jack rafters, tail rafters, hip rafters, hip jack rafters and cripple jack rafters	pgs. 309–312, 316–326
Objective 5.6 Frame roof openings, dormers and saddles	pgs. 324–326, 372–373
Objective 5.7 Lay out, cut and install roof trusses (purling)	pgs. 329–336
Objective 5.8 Install roof sheathing	pgs. 336–339
Competency 6.0: Construct exterior finish by installing frames, corner boards, moldings, cornices, siding and shingles as per industry standards	
Objective 6.1 Install window and doorframes as per competition project blueprint and manufacturer's standards	pgs. 424, 430–444, 449–454
Objective 6.2 Measure, cut and install trim for window and door frames	pgs. 622–623, 636–638
Objective 6.3 Install corner boards, moldings or metal/vinyl corners within 1⁄8"	pgs. 463–476, 481–483, 486–497, 636–642
Objective 6.4 Install wood, bevel, sheet and lap siding and aluminum or vinyl siding as per competition project blueprint and manufacturer's recommendations	pgs. 467–476, 481–497
Objective 6.5 Install wood shingles and miter corners as per industry standards	pgs. 476–481
Objective 6.6 Install exterior finish rake, open cornice and box cornice as per competition project blueprint	pgs. 463–466
Competency 7.0: Construct interior finish while measuring and cutting materials, fitting and hanging doors and trim, constructing closets and installing crown moldings	
Objective 7.1 Measure, cut and install gypsum board to meet blueprint specs and industry standards	pgs. 553–560
Objective 7.2 Cut and install paneling while trimming to fit in prescribed locations	pgs. 564–567

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Objective 7.3 Fit and hang doors and trim to include swinging, sliding, folding and pocket doors to industry and manufacturers' standards	pgs. 621–625, 632–636
Objective 7.4 Construct closets and built-in units and install accessories as per competition blueprint specs and manufacturers' recommendations	pgs. 632–636, 660
Objective 7.5 Cut and install crown molding or other moldings within 1⁄16"	pgs. 636–640
Competency 8.0: Build stairs by laying out stringer and stringer sets, calculating rise, run and tread cutting and installing stair treads and stair skirts	
Objective 8.1 Lay out a straight run stringer and a two-flight stringer set with landing using a carpenter square	pgs. 608–610
Objective 8.2 Calculate rise, run and tread width within 1⁄16"	pgs. 605–610
Objective 8.3 Cut and install stair treads and stair skirt within a 1⁄8" variable	pgs. 604–616
Competency 9.0: Identify lumber by writing a requisition for ordering lumber	
Objective 9.1 Match letters designating uses in plywood or composition board to their current application	pgs. 53–55, 59–62
Objective 9.2 Match at least two examples each of common hardwoods and softwoods to their uses	pgs. 53–55, 83–84 (Wood Identification)
Objective 9.3 Identify types of trim and moldings, and describe use	pgs. 636–642
Objective 9.4 Identify common defects in lumber	pgs. 52–53
Objective 9.5 Write a requisition for ordering lumber based on a given material list	pgs. 53–56, 267–268
Objective 9.6 Calculate board feet using the standard formula (No. of pieces x thickness in inches x width in inches x length in feet ÷12 = board feet)	pgs. 55–56
Competency 10.0: Using and maintaining tools safely per manufacturers' recommendations	
Objective 10.1 Inspect and properly use hand tools as per manufacturers' recommendations. Hand tools from the following list: sliding T-bevel, tape measure, combination square/speed square coping saw, keyhole saw, folding rule, hammer, punch, hand saw, nail set, wood chisel, carpenter's level, and framing square	pgs. 85–100, 178
Objective 10.2 Inspect and properly operate power tools as per manufacturers' recommendations. Power tools from the following list: reciprocating (jig saw), miter saw, hand drill, belt sander, circular saw, sabre saw, table saw, finish sander, and hand router	pgs. 103–126

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