



# Goodheart-Willcox Publisher

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<b>Goodheart-Willcox Publisher Correlation of <i>Modern Cabinetmaking</i> ©2016 to Idaho Professional-Technical Education Course Cabinetmaking and Millwork I, II, III</b>		
<b>OBJECTIVE</b>		<b>CORRELATING PAGES</b> Publisher/Provider: List units with specific examples of where standards are Introduced/Taught/Assessed
<b>Performance Standards</b>		
1.	Employability skills and habits: Productive work habits and positive attitudes; ethical and responsible practices; principles of time management, work simplification, and teamwork when performing assigned tasks; importance of taking pride in the quality of work performed; importance of a drug-free workplace and industry policies toward drug and alcohol use; job search and advanced-training opportunities, including apprenticeship programs, if appropriate; information about a job; documents that may be required for a job application; job-application form; job-interview techniques; productive work habits and positive attitudes; how to make job changes appropriately; ethical and responsible practices; acceptable hygiene practices and a professional appearance; principles of time management, work simplification, and teamwork when performing assigned tasks; taking pride in the quality of work performed; drug-free workplace and industry policies toward drug and alcohol use; ramifications of a poor driving record on employability opportunities	11, 31–40, 42 (Activity #3, 4), 46, 47, 52 (Activity #2), 345–346, 504
2.	Problem-solving skills: Multiple tasks, utilizing various resources such as time, personnel, and materials; problems, identify the causes, and devise plans of action; obstacles, generate alternatives, and choose the best alternatives	11, 37, 89, 92–93, 105, 107, 704 (Activity #2)

3.	Positive customer-relations skills: Self-control; appropriate responses to criticism; human relations as they relate to success in the industry; customer complaints in a positive, professional manner; respect for people and property	35–36, 38, 40, 46
4.	Entrepreneurship: Entrepreneurship”; importance of entrepreneurship to the American economy and the role of small business in the free-enterprise system; advantages and disadvantages of business ownership	38–40
5.	Shop and occupational safety: Clean, orderly, and safe work area; transport, handle, and store materials safely; operate a fire extinguisher; basic first-aid procedures; common safety hazards; proper use of common personal protective equipment (hard hats, safety glasses, safety shoes, etc.); Idaho’s “right-to-know”, law, including the material safety data sheets (MSDS); purpose of the occupational safety and health administration (OSHA); health-related problems that may result from exposure to hazardous materials; proper precautions for handling hazardous materials; eligibility and the procedures for obtaining worker’s compensation; importance of complying with ADA requirements for handicapped accessibility; OSHA 10-hour construction safety course	13–28, 29–30 (Activity #1, 2, 3, 4), 102–103, 114–115, 294, 362, 376, 409 (Activity #3), 424, 456, 474 (Activity #3), 481, 545, 555, 558, 560, 564, 567, 569, 602, 632 (Activity #3), 640, 687, 712, 815, 883, 887, 892 (Activity #2, 3), 893, 902 (Activity #3), 926, 942, 946, 950, 956, 959
6.	Basic math skills: Basic math problems related to carpentry and/or cabinetmaking, with and without a calculator including basic geometry and algebra skills; board, linear, foot, square-foot, and cubic-foot measurements; horizontal and vertical surfaces, using millimeters, centimeters, feet, and inches; fractions, decimals, and percentages; problems for volume, weight, area, circumference, and perimeter measurements for rectangles, squares, and cylinders; correct purchase price of items, including the sales tax	91, 93, 94 (Activity #3), 137, 148 (Activity #2), 149–165, 166 (Activity #1, 2, 3, 4, 5), 175, 177–178, 181 (Activity #1, 2, 4), 196–197, 252 (Activity #1), 269 (Activity #1), 319 (Activity #2), 409 (Activity #1), 446 (Activity #1), 474 (Activity #1), 514, 520 (Activity #2), 587–588 (Activity #3, 4), 592, 602 (Activity #1), 656 (Activity #1), 704 (Activity #1), 718 (Activity #1), 739 (Activity #2, 3), 749 (Activity #1), 798 (Activity #2), 810 (Activity #1), 854, 844 (Activity #2)

7.	Communication skills: Logical and understandable statements; graphs, charts, diagrams, and tables commonly used in the carpentry industry; written and oral instructions; questions coherently, directly, and concisely	33, 105, 107, 119–120, 124–131, 135–137, 141–147, 345, 844 (Activity #2)
8.	Manual and power tools: Hand and power tools; cabinet making measuring tools; cleaning and care for tools and equipment; safe use of hand tools and of portable and stationary power tools	137–141, 149–159, 164–165, 167 (Activity #2, 3, 4, 5), 355–368, 371–407, 411–419, 421–444, 447–472, 475–500, 503–518, 533–550, 565–567, 571–586, 604–606, 634–638, 653–654, 678, 681–683, 691–703, 762–764
9.	Characteristics of building materials: Grades and species of lumber; actual and nominal sizes of lumber; various street goods and wood products; defects that affect the durability and strength of lumber; effects of temperature, chemical, and moisture, on building materials	171, 173–179, 183, 186–193, 192–193, 193–196, 198–199, 202–203, 207–230
10.	Basic drawing: Basic working drawings; architect's scale; architectural and engineering elevations, perspectives, and schedules; lines and blueprint symbols; cad drawing	105, 120–130, 135–147, 148 (Activity #1, 2, 3), 156, 159, 160–163, 508, 509
11.	Cabinets for finish: Nail and screw holes; wood plugs in prepared holes; cabinet and joints for finish; proper filler; wood surfaces for finishing; staining, bleaching, filling, and sealing wood surfaces	330, 884, 895–898, 934–936, 942–959
12.	Apply finishes: Lacquer-based; water-based; oil-based; enamel; polyurethane; types of finishes that the local market demands; safety precautions when applying finishes, including wearing respirator and protective clothing approved by national institute of occupational safety and health (NIOSH)	833, 884, 887–889, 892 (Activity #3), 903–926, 929–942, 943 (Activity #1, 2)
13.	Material fastonery/joinery: Types of glues and fasteners and their applications; fasten stock with glue and clamps; fastening stock and joints with appropriate fasteners, as applicable to program/facility and or project that may include nails; staples; screws; bolts; fasteners; nail and screw holes with fillers and plugs; glue and clamp stock, using various techniques	321–341, 343 (Activity #1), 571–586, 587–588 (Activity #1, 3), 596, 597, 599, 607–609, 611, 614–616, 621–622, 625–627, 657–687, 689 (Activity #1, 2), 935–936

14.	Assembling cabinet components: Hardware, such as hinges, catches, pulls, knobs, and guides, on assembled cabinets; fasteners; drawers; various types of doors, as applicable to program/facility and or project (overlay, lipped, flush); adjustable shelving; glass panels; specialty hardware, such as a lazy susan, wire racks, and “pull-outs”; sliding doors and track	300–313, 724, 769–781, 791–794, 819–821, 833–851
15.	Planning, designing, and laying out casework: Plan or procedure and a cut list for a specific job; wood stock for compatibility of grain and color	349, 422, 721–737, 832, 833, 845–852
16.	Constructing joints: various types of joints as applicable to program/facility and or project (butt, dovetail, plate, dowel, pocket/joint, cope joint, box joint, screw, dado, rabbet, lap, miter, spline, tongue-and groove, mortise-and tenon)	202–203, 466, 657–687, 689 (Activity #1, 2, 3), 726, 762–764, 785–790, 804
17.	Casework components: Framing stiles and rails; end, top, and bottom panels; partitions and sleepers; skeleton frame stiles and rails; toe kick and a back panel; casework top or countertop and back splash; drawer front, sides, back, and bottom; wood drawer guides	723–726, 741–748, 751–756, 766, 784–785, 801–802, 812–813, 830, 841,
18.	Cabinet drawers: Types of drawers, as applicable to program/facility and or project that include 5 & 6 piece drawers in which styles may include overlay, lip, flush; drawer guides; roll-out trays	309–311, 726, 783–796, 798 (Activity #2, 3)
19.	Cabinet doors: Fabricating solid, frame and panel, and glazed doors; constructing flush, overlay, and inset-style doors; banding edges of solid doors	300–309, 726, 769–781, 782 (Activity #1, 3), 802, 835
20.	Construction industry in the American economy: Role of the construction industry within the free-enterprise system; career-progression opportunities in the cabinetmaking industry; current issues, topics, and materials in the building-construction industry	31–40, 42 (Activity #1, 5), 43–51, 52 (Activity #3)



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21.	Cabinets: Casework for hauling; walls and floors for level and plumb; fasteners for walls; upper and lower cabinets and other casework; countertops, including sink cutouts and back splash; molding and trim; doors and drawers; work site	9–10, 335–337, 721–737, 741–748, 751–766, 799–809, 811–842
22.	Laminates: Core stock to specifications; laminate to specification; adhesive; laminate to core stock; plastic laminate edges; laminated surfaces; curved surface; laminate defects	261–267, 269 (Activity #3), 595–600, 619–631
23.	Millwork operations: Shaped moldings to specifications; built-up moldings; curved piece from solid stock; curved piece by saw kerfing; curved piece, using curved segments; curved piece by laminating thin strips	199–203, 267, 589–600, 611, 622–625, 858–860