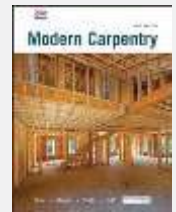
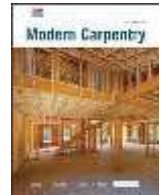


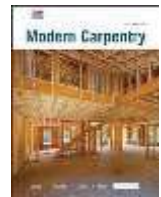
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**COURSE CODES: 6091, 6092, 6093, 6094**  
**CARPENTRY 1, 2, 3, 4 (Grades 9–12)**



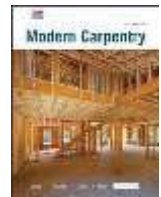
Standards	Correlating Text Pages
<b>A. Student Organizations</b>	
1. Identify the purpose and goals of a Career and Technology Student Organization (CTSO).	7
2. Explain how CTSOs are integral parts of specific clusters, majors, and/or courses.	7
3. Explain the benefits and responsibilities of being a member of a CTSO.	7
4. List leadership opportunities that are available to students through participation in CTSO conferences, competitions, community service, philanthropy, and other activities.	7
5. Explain how participation in CTSOs can promote lifelong benefits in other professional and civic organizations.	7
<b>B. Technology Knowledge</b>	
1. Demonstrate proficiency and skills associated with the use of technologies that are common to a specific occupation.	11
2. Identify proper netiquette when using e-mail, social media, and other technologies for communication purposes.	11
3. Identify potential abuse and unethical uses of laptops, tablets, computers, and/or networks.	11
4. Explain the consequences of social, illegal, and unethical uses of technology (e.g., piracy; cyberbullying, illegal downloading; licensing infringement; inappropriate uses of software, hardware, and mobile devices in the work environment).	11
5. Discuss legal issues and the terms of use related to copyright laws, fair use laws, and ethics pertaining to downloading of images, photographs, documents, video, sounds, music, trademarks, Creative Commons, and other elements for personal use.	11
6. Describe ethical and legal practices of safeguarding the confidentiality of business-related information.	11
7. Describe possible threats to a laptop, tablet, computer, and/or network and methods of avoiding attacks.	11
<b>C. Personal Qualities And Employability Skills</b>	
1. Demonstrate punctuality.	9-12
2. Demonstrate self-representation.	9-12
3. Demonstrate work ethic.	9-12
4. Demonstrate respect.	9-12



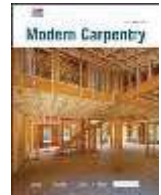
Standards	Correlating Text Pages
5. Demonstrate time management.	9-12
6. Demonstrate integrity.	9-12
7. Demonstrate leadership.	9-12
8. Demonstrate teamwork and collaboration.	9-12
9. Demonstrate conflict resolution.	9-12
10. Demonstrate perseverance.	9-12
11. Demonstrate commitment.	9-12
12. Demonstrate a healthy view of competition.	9-12
13. Demonstrate a global perspective.	9-12
14. Demonstrate health and fitness.	9-12
15. Demonstrate self-direction.	9-12
16. Demonstrate lifelong learning.	9-12
<b>D. Professional Knowledge</b>	
1. Demonstrate effective speaking and listening skills.	9-12
2. Demonstrate effective reading and writing skills.	9-12
3. Demonstrate mathematical reasoning.	9-12
4. Demonstrate job-specific mathematics skills.	9-12
5. Demonstrate critical-thinking and problem-solving skills.	9-12
6. Demonstrate creativity and resourcefulness.	9-12
7. Demonstrate an understanding of business ethics.	9-12
8. Demonstrate confidentiality.	9-12
9. Demonstrate an understanding of workplace structures, organizations, systems, and climates.	9-12
10. Demonstrate diversity awareness.	9-12
11. Demonstrate job acquisition and advancement skills.	9-14
12. Demonstrate task management skills.	9-12
13. Demonstrate customer-service skills.	9-12
<b>Nccer® Contren Core Modules</b>	
<b>Module A: Safety</b>	
1. Identify the responsibilities and personal characteristics of a professional craftsperson.	19-23
2. Describe the safe work requirements for elevated work.	25-26
3. Identify and explain how to avoid struck-by and caught-in-between hazards.	28-29
4. Explain the appropriate safety precautions around common job-site hazards.	25-31
5. Demonstrate the use and care of appropriate personal protective equipment (PPE).	23-24
6. Identify and describe other specific job-site safety hazards.	25-31
7. Follow safe procedures for lifting heavy objects.	19-23
8. Describe safe behavior on and around ladders and scaffolds.	25-26
9. Explain the importance of the Hazard Communication Standard (HazCom) requirement and Safety Data Sheets (SDS)	19-22



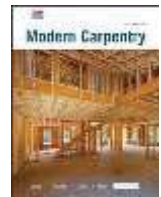
Standards	Correlating Text Pages
10. Describe fire prevention and firefighting techniques.	31
11. Define safe work procedures around electrical hazards.	27-28
12. Complete 10-hour OSHA course/assessment and receive card. (SDE Requirement)	19-22
13. Complete Performance Tasks	19-23
<b>Module B: Construction Math</b>	
1. Add, subtract, multiply, and divide whole numbers, with and without a calculator.	837-839
2. Use a standard ruler and a metric ruler to measure.	841-842
3. Add, subtract, multiply, and divide fractions.	839-840
4. Add, subtract, multiply, and divide decimals, with and without a calculator.	836-837, 842-843
5. Convert decimals to percent and percent to decimals.	842-843, 851
6. Convert fractions to decimals and decimals to fractions.	842-843
7. Explain what the metric system is and how it is important in the construction trade.	144
8. Recognize and use metric units of length, weight, volume, and temperature.	144
9. Recognize some of the basic shapes used in the construction industry and apply basic geometry to measure them.	845-856
<b>Module C: Introduction To Hand Tools</b>	
1. Recognize and identify various types of basic hand tools used in the construction trade.	69-82
2. Identify and describe how to use various types of measurement and layout tools.	69-74
3. Identify and explain how to use various types of cutting and shaping tools.	74-77
4. Use these tools safely.	69-82
5. Describe the basic procedures for taking care of these tools.	82
6. Complete Performance Tasks	69-82
<b>Module D: Introduction To Power Tools (Optional)</b>	
1. Identify and explain how to use various types of power drills and impact wrenches used in the construction trade.	93-96
2. Identify and explain how to use various types of power saws.	88-93, 100-105
3. Identify and explain how to use various grinders and grinder attachments.	96-98, 105-106
4. Identify and explain how to use miscellaneous power tools.	85-107
5. Use power tools safely.	85-88
6. Explain how to maintain power tools properly.	107
7. Complete Performance Tasks	107
<b>Module E: Introduction To Construction Drawings/Recommend Blueprint Reading.</b>	
1. Identify and describe various types of construction drawings, including their fundamental components and features.	126-138



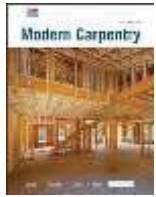
Standards	Correlating Text Pages
2. Recognize and identify basic blueprint terms, components, and symbols.	128-129, 140-143
3. Relate information on blueprints to actual locations on the print.	126-144
4. Recognize different classifications of drawings.	126-144
5. Interpret and use drawing dimensions.	126-144
6. Complete Performance Tasks	126-144
<b>Module F: Basic Rigging (Optional)</b>	
1. Explain how ropes, chains, hoists, loaders, and cranes are used to move material and equipment from one location to another on a job site.	120-123
2. Describe inspection techniques and load-handling safety practices.	121-122
3. Explain the American National Standards Institute (ANSI) hand signals.	123
4. Complete Performance Tasks	120-123
<b>Module G: Basic Communication Skills (Sde Requirement)</b>	
1. Describe the communication, listening and speaking processes and their relationship to job performance.	9-12
2. Describe good reading and writing skills and their relationship to job performance	9-12
3. Demonstrate telephone and e-communication skills necessary in the workplace.	9-12
4. Complete Performance Tasks	9-12
<b>Module H: Basic Employability Skills (Sde Requirement)</b>	
1. Describe the opportunities in the construction business and how an individual enters the construction workforce.	4-7
2. Explain the importance of critical thinking and how to solve problems in the workplace.	11
3. Explain the importance of social skills and identify ways good social skills are applied in the construction trade.	9-12
4. Describe computer systems and their industry applications.	11
5. Explain interpersonal relationship skills, self-presentation, and key workplace issues such as sexual harassment, stress, and substance abuse.	9-12
<b>Module I: Materials Handling (Optional)</b>	
1. Describe the hazards associated with handling materials and provides techniques to avoid both injury and property damage.	30
<b>CARPENTRY 1 – 4</b>	
<b>F. Introduction To Carpentry</b>	
<b>Level 1</b>	
1. Identify career and entrepreneurial opportunities available to people in the Carpentry trade.	12-14



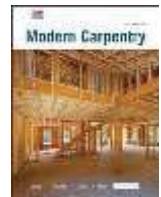
Standards	Correlating Text Pages
2. Identify the skills, responsibilities, and characteristics needed to be a successful carpenter.	9-12
3. Summarize how involvement in a career-technical student organization like SkillsUSA can help a student connect to industry.	7
4. Explain the importance of safety in the construction industry, and describe the obligations of the contractor, subcontractors, and you to ensure a safe work environment.	19-32
<b>G. Building Materials, Fasteners, And Adhesives</b>	
1. State the uses of various types of hardwoods and softwoods.	67-68
2. Describe common lumber defects.	41-42
3. Identify the different grades of lumber and describe uses for each.	42-43
4. Explain how treated lumber differs from nontreated lumber.	52
5. Describe how plywood is manufactured and cite common applications for plywood on a construction project.	45-50
6. Identify uses of hardboard and particleboard.	51
7. Identify uses of high- and medium-density overlay plywood.	50
8. Describe how oriented strand board differs from particleboard and cite common applications for OSB.	51
9. Cite common applications for mineral fiberboard.	385
10. State the uses of various types of engineered lumber.	53
11. Identify applications for wood I-beams	53, 768-769
12. List advantages of glulam lumber over conventional solid lumber.	53
13. Describe the composition of concrete and explain how hydration occurs.	187
14. List uses of concrete masonry units for a construction project.	192
15. Identify where metal framing members may be used in a structure.	315-319
16. List general safety guidelines for working with building materials.	19-32
17. Cite safety precautions for working with wood, concrete, and metal building materials.	19-32, 56-60, 62
18. List basic material-handling guidelines.	19-32, 56-60, 62
19. Describe how to handle and store wood, concrete, and store metal building materials.	53,56, 62
20. Calculate lumber and panel quantities.	45
21. Calculate the volume of concrete required for rectangular and cylindrical shapes.	62
22. Identify various types of nails and cite uses for each.	60-61



Standards	Correlating Text Pages
23. Identify applications for staples.	64
24. Identify various types of screws and cite uses for each.	61-62
25. Describe uses for hammer-driven pins and studs.	60-62
26. Identify various types of bolts, mechanical, bolt, screw, hollow-wall, anchors and cite uses for each.	192
27. List the types of glues and adhesives used in construction.	64
28. Demonstrate performance tasks.	36-64
<b>H. Hand And Power Tools</b>	
1. Identify and describe hand tools commonly used by carpenters, e.g., levels, squares, planes, clamps, and hand saws.	69-82
2. Identify and describe power tools commonly used by carpenters, e.g., power saws, drill presses, routers, laminate trimmers, portable power plans, and power metal shears.	85-107
3. Describe the safe use of pneumatic and cordless nailers and staplers.	99-100
4. Demonstrate performance tasks.	69-82, 85-107
<b>I. Introduction To Construction Drawings, Specifications, And Layout</b>	
1. Identify the different types of lines used on construction drawings.	128-129
2. Identify selected architectural symbols commonly used to represent materials on plans.	140-142
3. Identify selected electrical, mechanical, and plumbing symbols commonly used on plans.	140-142
4. Identify selected abbreviations commonly used on plans.	143
5. Describe the methods of dimensioning construction drawings.	142-143
6. List the various types of construction drawings and describe each.	126-138
7. Describe how specifications are organized.	144
8. Explain the importance of building codes in construction.	144-149
9. Identify the methods of squaring a building.	155-157
10. Demonstrate performance tasks.	126-150, 155-157
<b>J. Floor Systems</b>	
1. Explain the importance of specifications.	144
2. List items commonly shown on architectural drawings.	126-138
3. Describe information typically shown on structural drawings.	127
4. Explain the importance of referencing mechanical, electrical, and plumbing plans.	126-143
5. Describe the proper procedure for reading a set of prints.	126-143
6. Describe the general components of a platform-framed structure.	219-220

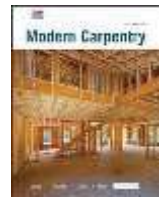


Standards	Correlating Text Pages
7. List differences between platform framing and balloon framing.	219-221
8. Describe the characteristics of post-and-beam framing.	224-225
9. Define sill plate and describe its role in floor framing.	221-226
10. List and recognize different types of beams and girders and supports.	228-236
11. List and recognize different types of floor joists and bridging.	239-240
12. Explain the purposes of subfloor and underlayment.	175-181
13. Describe how to check a foundation for squareness.	226-228
14. Name the methods used to lay out and fasten sill plates to the foundation.	221-226
15. Describe the proper procedure for installing a beam or girder.	221-228
16. Describe how to lay out sill plates and girders for floor joists.	228-238
17. Describe how to lay out and install floor joists for partitions and floor openings.	235-236
18. Identify different types of bridging and describe how to properly install each type.	239-240
19. Describe how to properly install subfloor.	236-238
20. Explain how to install joists for projections or cantilevered floors.	240
21. Describe how to estimate the amount of sill plate, sill sealer, and termite shield.	240
22. Describe how to estimate the amount of beam or girder material.	240
23. Describe how to estimate the amount of lumber needed for joists and joist headers.	240
24. Describe how to estimate the amount of bridging required.	240
25. Describe how to estimate the amount of subfloor material required.	240
26. Identify some common alternative floor systems.	217-240
27. Demonstrate performance tasks.	217-240
<b>K. Wall Systems</b>	
1. Identify methods used to construct corner posts.	246
2. Describe how to frame partition intersections.	247
3. Explain the purpose of headers and describe how they are constructed.	247-249
4. Describe how metal-framed walls are constructed.	321-324
5. Describe how to properly lay out a wood frame wall.	244-260
6. Explain how to lay out wall openings.	244-260
7. List the steps involved in assembling a wall.	244-260
8. Identify where fire stops are to be installed and explain how they are installed.	219, 741
9. List the four steps involved in erecting a wall.	253-260

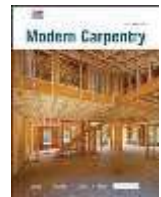


Standards	Correlating Text Pages
10. Describe wall framing techniques used in masonry construction.	259-261
11. Explain how to estimate the amount of lumber required for soleplates and top plates.	268-270
12. Describe how to estimate the number of studs required.	269
13. Explain how to calculate the amount of material needed for a header.	269
14. Describe how to estimate the amount of diagonal bracing required.	270
15. Describe how concrete walls are constructed.	191-192
16. Explain the difference between standard interior wall systems and alternative interior wall systems.	244-260
17. State the precautions that must be taken when installing refrigerant piping.	253-257
18. Demonstrate performance tasks.	244-260
<b>L. Ceiling And Roof Framing</b>	
1. Describe the correct procedure for laying out ceiling joists.	262-267
2. Describe how to cut and install ceiling joists on a wood frame building.	262-267
3. Describe how to estimate the number of ceiling joists required for a building.	262-267
4. Identify common types of roofs used in residential construction.	275-276
5. Identify the two types of dormers.	298-299
6. Describe how to use a framing square and a Speed Square™ for roof framing.	70-71, 283
7. Explain how to lay out rafter locations.	279-284
8. Describe how to determine the length of a common rafter.	279-284
9. Explain the correct procedure for laying out and cutting a common rafter.	279-284
10. Describe how to install rafters.	279-284
11. Describe how to frame a gable overhang.	284-288
12. Explain how to frame an opening in a roof.	296-297
13. Identify the various types and components of trusses.	302-308
14. Identify the basics of truss installation and bracing.	302-308
15. Describe the basics of roof sheathing installation.	308-310
16. Determine the materials needed for a gable roof.	284-288
17. Demonstrate performance tasks.	261-270, 274-311
<b>M. Building Envelope Systems</b>	
1. Describe various ways that air infiltration can be minimized or prevented.	378-381
2. Identify various types of fixed, sliding, and swinging windows.	390-411

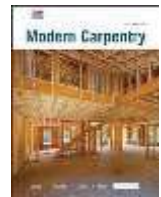




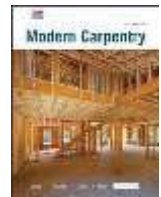
Standards	Correlating Text Pages
3. Identify the common types of exterior doors and explain how they are constructed	587-610
4. Explain when jamb extensions are used.	404
5. Identify common considerations when framing in glass blocks.	409-411
6. Identify the differences between residential and commercial doors.	587-597
7. Identify the various types of locksets used on exterior doors and explain how they are installed.	597-599
8. Demonstrate performance tasks.	587-610
<b>N. Basic Stair Layout</b>	
1. Identify how residential and commercial stairways differ.	569-574
2. Identify the various components associated with stairs.	571
3. Define headroom.	571
4. Define stringer and explain when more than two stringers are used.	568, 576-579
5. Define treads and risers and explain the importance of uniform tread depths and riser heights.	571
6. List the minimum stairway width requirements for residential and commercial structures.	569-574
7. Describe the difference between handrails and guards.	574
8. Identify situations that carpenters may be confronted with when framing stairwells.	572-573
9. Explain how to calculate the riser height, tread depth, and total run for a stairway.	573-575
10. Describe how to calculate stairwell opening sizes.	575-576
11. Explain how to lay out and cut a stringer.	576-579
12. Describe how to properly reinforce a stringer.	568, 576-579
13. Summarize how concrete stairways are formed.	568-584
14. Demonstrate performance tasks.	568-584
<b>Level 2</b>	
<b>F. Commercial Drawing</b>	
1. Describe the operation of various types of transformers.	784-785
2. Compare and contrast residential and commercial construction drawings.	126-138
3. Describe the purpose of a civil drawing.	130-132
4. Describe the use of architectural drawings and schedules.	126-138
5. Describe the use of structural drawings.	133-138
6. Describe the purpose of mechanical, electrical, and plumbing drawings.	133-138
7. Compare drawings from two different disciplines.	126-138
8. Describe the format of specifications.	126-138
9. Explain how specifications are written.	126-138
10. Demonstrate performance tasks.	126-138



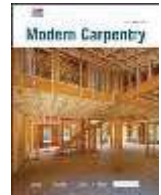
Standards	Correlating Text Pages
<b>G. Cold-Formed Steel Framing (Optional)</b>	
1. Identify the safety guidelines that should be followed when working with cold-formed steel.	315-325
2. Identify steel framing materials.	315-325
3. List the steel framing tools and fasteners.	315-325
4. Explain how to perform a material takeoff for a steel frame project.	315-325
5. Describe basic steel construction methods.	315-325
6. Explain how to frame nonstructural and structural steel walls.	321-324
7. Explain how steel framing members are used in floor, roof, and ceiling construction.	315-325
8. Demonstrate performance tasks.	315-325
<b>H. Exterior Finishing</b>	
1. Identify safety hazards that are present when working at elevations.	426-470
2. Describe safety hazards when working with hand and power tools, equipment, and exterior finish materials.	426-470
3. Identify the types of wood siding.	431-440
4. Identify vinyl and metal siding materials and components.	449-460
5. List applications for fiber-cement siding.	447-449
6. Discuss the types of veneer finishes.	465-469
7. List specialty exterior finishes.	46-469
8. Explain the purpose of flashing.	334-335, 430-431
9. Describe surface preparation that must be performed prior to installing exterior finish materials.	334-339
10. Discuss the types of furring and insulation that might be applied to exterior walls.	484-488, 525
11. Explain how to establish a straight reference line.	432
12. Describe how to install wood, vinyl, metal, and fiber-cement siding.	431-469
13. Explain how to install cornices.	427-430
14. Explain how to perform a takeoff on panel and board siding.	426-469
15. Demonstrate performance tasks.	426-470
<b>I. Thermal And Moisture Protection</b>	
1. List the personal protective equipment (PPE) that is required when working with insulation.	491
2. Describe how to safely handle insulation.	491
3. Explain how to determine R-value requirements.	384
4. List miscellaneous types of insulation.	481-484
5. Describe flexible, loose-fill, rigid, semi-rigid, and reflective insulation and list their characteristics.	481-484
6. Explain how to install flexible, loose-fill, rigid, semi-rigid, and reflective insulation.	492-507



Standards	Correlating Text Pages
7. List various methods to control moisture in a structure.	375-377
8. Identify methods to waterproof a structure.	375-377
9. Describe the estimating procedure for thermal and moisture projects.	375-377, 492-507
10. Demonstrate performance tasks.	375-377, 492-507
<b>J. Roofing Applications</b>	
1. Identify potential hazards when working on roofs.	329-369
2. Discuss the fall protection equipment required when working on roofs.	369
3. Identify proper personal protective equipment (PPE) and hazard control devices used when working on roofs.	369
4. Identify the hand and power tools used when working on roofing projects.	329-369
5. Identify fasteners used on roofing projects.	353
6. Identify roll-roofing applications.	332, 344
7. Identify composition, wood shakes and shingles and their applications.	330, 339-365
8. Explain how to install composition shingles.	331-358
9. Explain how to install metal and roll roofing.	332, 344
10. Identify tile/slate roofing materials and their applications.	362-365
11. Identify metal, built-up, and single-ply roofing and their applications.	329-369
12. Explain the purpose of underlayment and waterproof membrane.	331-339
13. Discuss the purpose of drip edge, flashing, and roof ventilation.	331-339
14. Describe how to properly prepare a roof deck.	331
15. Discuss roof projections, flashing, and ventilation.	331-339
16. Describe the estimating procedure for roofing projects.	366-369
17. Demonstrate performance tasks.	329-369
<b>K. Doors And Door Hardware</b>	
1. Describe the safety hazards related to working with doors.	587-610
2. Identify the different types and composition of residential and commercial doors.	587-610
3. Describe the uses and benefits of wood and metal door jambs and frames.	589-591
4. Identify the different types of door hardware used in residential and commercial applications.	594-600
5. Describe the various installation techniques for residential and commercial doors and hardware.	594-610
6. Describe the hardware finish classifications.	594-600
7. Describe the information included in a typical door schedule.	587-610
8. Demonstrate performance tasks.	587-610



Standards	Correlating Text Pages
<b>L. Drywall Installation</b>	
1. List the types of gypsum products.	514-514
2. Identify drywall fasteners and list their uses.	517-521
3. Identify drywall accessories and state their applications.	514-534
4. Describe the purpose of a finish schedule.	514-534
5. List the tools used for drywall application.	515
6. Identify methods of sound-isolation construction.	500-507
7. Describe the procedure for drywall construction.	512-534
8. List special applications for drywall.	512-534
9. Describe single-ply drywall application.	515-520
10. Describe how fire-rated walls are constructed.	512-534
11. List multi-ply drywall applications.	521
12. Describe how to prioritize walls.	512-534
13. Explain how to perform a material takeoff for drywall and drywall fasteners.	512-534
14. Demonstrate performance tasks.	512-534
<b>M. Drywall Finishing</b>	
1. Identify differences between the six levels of finish established by industry standards.	512-534
2. Describe how to select the proper trim.	512-534
3. Describe the purposes of tapes, compounds, coatings, and sanding materials.	512-534
4. Identify the hand and automatic tools used in drywall finishing.	515-521
5. Identify ideal site conditions for drywall finishing.	514
6. Describe the process for finishing drywall.	517-534
7. Identify common problems when finishing drywall.	517-534
8. Describe the hand-finishing procedures involved in drywall finishing.	517-534
9. Describe the automatic taping and finishing procedures involved in drywall finishing.	517-534
10. Identify common joint and compound problems when finishing drywall.	512-534
11. Identify common fastener problems when finishing drywall.	517-521
12. Explain how to estimate the proper amount of drywall finishing materials.	540-541
13. Demonstrate performance tasks.	512-541
<b>N. Suspended Ceilings</b>	
1. Identify the system components necessary to properly frame a suspended ceiling system.	538-539, 541
2. Identify the suspension systems and hardware necessary to properly install a suspended ceiling system.	538-539, 541
3. Identify the safe material handling and storage procedures required when installing a suspended ceiling system.	538-539, 541



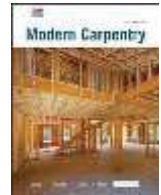
Standards	Correlating Text Pages
4. Interpret the layout information.	538-539, 541
5. Interpret the MEP locations.	538-539, 541
6. Identify the layout and takeoff procedures to procure materials to lay out and install a suspended ceiling system.	538-539, 541
7. Identify the tools and equipment to lay out and install a suspended ceiling system.	538-539, 541
8. Identify the installation methods and procedures for a suspended ceiling system.	538-539, 541
9. Demonstrate performance tasks.	538-539, 541
<b>O. Window, Door, Floor, And Ceiling Trim</b>	
1. Identify the proper personal protection equipment required when working with window, door, floor, and ceiling trim.	534-541, 546-565, 587-610
2. Identify tool and equipment safety guidelines when working with window, door, floor, and ceiling trim tools.	534-541, 546-565, 587-610
3. Identify the different types of base, wall, and ceiling moldings.	605
4. Explain how to properly install base and ceiling molding.	605
5. Identify the different types of window and door trim.	404-423, 594-597
6. Explain how to properly install window and door trim.	404-423, 594-594
7. Explain how to properly cut and fasten trim.	404-423, 534-541, 546-565, 587-610
8. Explain how to estimate window, door, floor, and ceiling trim.	404-423, 534-541, 546-565, 587-610
9. Demonstrate performance tasks.	404-423, 534-541, 546-565, 587-610
<b>P. Cabinet Installation</b>	
1. Identify tool and material hazards that may be present when installing cabinets.	614-634
2. Explain how to prevent back injuries through proper ergonomics.	614-634
3. Identify wall and base cabinets.	614-634
4. Describe the purpose of a countertop.	614-634
5. Identify cabinet components.	614-634
6. Describe various types of hardware used on cabinets.	614-634
7. Describe the surface preparation needed before cabinet installation.	622-624
8. Explain how to install wall and base cabinets, and countertops.	622-634
9. Demonstrate performance tasks.	614-634
<b>Q. Cabinetmaking (Optional)</b>	
1. Identify and describe solid woods particleboard.	621
2. Identify and describe various types of plywood.	621
3. Identify and describe the safe use of various types of saws.	622-634
4. Identify and describe the safe use of jointers, planers, shapers, and routers.	622-634



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Standards	Correlating Text Pages
5. Identify and describe the safe use of sanders, drill presses, and brad guns.	622-634
6. Identify and describe the common wood joints used in cabinetmaking.	622-634
7. Identify and describe the construction features of cabinet doors, drawers, and shelves.	622-634
8. Identify and describe various types of cabinet hardware and fasteners.	622-634
9. Describe the process of cabinet assembly.	622-634
10. Describe how to properly sand cabinets and how to apply sealers, wood fillers, and stains to them.	622-634
11. Identify basic considerations for laminate installation.	631-634
12. Describe how to lay out, cut, and apply laminates to a countertop	631-634
13. Demonstrate performance tasks.	614-634