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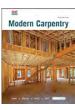
# Goodheart-Willcox Publisher Correlation of Modern Carpentry ©2022 Massachusetts Department of Elementary & Secondary Education Course Codes: MA Chapter 74 Frameworks Grades 9-14



|   |           | Strands   | Correlating Text Pages     |  |  |
|---|-----------|---|----------------------------|--|--|
| Strand 1:   |           |   |                            |  |  |
| Strand 1: Safety and Health Knowledge and Skills  1.A Fundamentals of Health and Safety |           |   |                            |  |  |
| 1.A.01  |           | nd apply health and safety regulations  |                            |  |  |
| 27, 1102  |           | Identify, describe and apply health and safety  |                            |  |  |
|   |           | regulations that apply to specific tasks and jobs. Students must complete a safety credential program, e.g., Occupational Safety and Health Administration 10, CareerSafe and ServSafe.   | 19-32                      |  |  |
|   | 1.A.01.02 | Identify, describe and apply Environmental Protection Agency (EPA) and other environmental protection regulations that apply to specific tasks and jobs in the specific occupational area.  | 19-32, 715-732             |  |  |
|   | 1.A.01.03 | Identify, describe and apply Right-To-Know (Hazard Communication Policy) and other communicative regulations that apply to specific tasks and jobs in the specific occupational area.   | 19-32                      |  |  |
|   | 1.A.01.04 | Explain procedures for documenting and reporting hazards to appropriate authorities.  | 19-32                      |  |  |
|   | 1.A.01.05 | Identify and describe potential consequences for non-<br>compliance with appropriate health and safety<br>regulations.  | 19-23                      |  |  |
|   | 1.A.01.06 | Identify and list contact information for appropriate health and safety agencies and resources.   | 19-32                      |  |  |
| 1.A.02  | Demonstra | ate appropriate health and safety practices based on the s  | pecific occupational area. |  |  |
|   | 1.A.02.01 | Identify, describe and demonstrate the effective use of Safety Data Sheets (SDS).   | 29-30                      |  |  |
|   | 1.A.02.02 | Read and interpret chemical, product and equipment labels to determine appropriate health and safety considerations.  | 19-32                      |  |  |
|   | 1.A.02.04 | Demonstrate safe dress and use of relevant safety gear, personal protective equipment (PPE) and ergonomics, e.g., wrist rests, adjustable workspaces, equipment, gloves, proper footwear, earplugs, eye protection and breathing apparatus. | 23-25                      |  |  |
|   | 1.A.02.05 | Demonstrate appropriate safe body mechanics, including appropriate lifting techniques and ergonomics.   | 30                         |  |  |



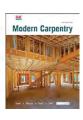
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|        |           | Strands   | Correlating Text Pages |
|--------|-----------|---|------------------------|
|        | 1.A.02.06 | Locate emergency equipment, first aid kit, SDS information directories and emergency  | correcting our ages    |
|        |           | action/response plan/escape routes in your lab, shop and classroom, including labels and signage that follow OSHA Hazard Communication Program (HAZCOM), eyewash stations, shower facilities, sinks, fire extinguishers, fire blankets, telephone, master power switches and emergency exits. | 19-32                  |
|        | 1.A.02.07 | Demonstrate the safe use, storage, and maintenance of every piece of equipment in the lab, shop and classroom, e.g., the OSHA Lockout/Tagout Program (LOTO).  | 26, 69-82, 85-107, 231 |
|        | 1.A.02.08 | Describe safety practices and procedures to be followed when working with and around electricity, e.g., ground fault circuit interrupter (GFCI) and frayed wiring.  | 27-28, 777 -795        |
|        | 1.A.02.09 | Handle, store, dispose of and recycle hazardous, flammable and combustible materials, according to EPA, OSHA and product specifications.  | 29 -30                 |
|        | 1.A.02.10 | Demonstrate appropriate workspace cleaning, sanitation, disinfection and sterilization procedures required in specific occupational areas, e.g., Workplace Housekeeping OSHA Regulations.   | 19 -23                 |
| 1.A.03 | Demonstra | ite appropriate responses to situations that may threaten   | health and safety.     |
|        | 1.A.03.01 | Describe First Aid procedures for potential injuries and other health concerns in the specific occupational area.   | 32                     |
|        | 1.A.03.02 | Describe the importance of emergency preparedness and an emergency action/response plan.  | 31-32                  |
|        | 1.A.03.03 | Describe procedures used to handle emergency situations, defensive measures and accidents, including identification, reporting, response, evacuation plans and follow-up procedures.  | 31-32                  |
|        | 1.A.03.04 | Identify, describe and demonstrate safety practices in specific occupational areas used to avoid accidents.   | 19-32                  |
|        | 1.A.03.05 | Identify and describe fire protection, protection, precautions and response procedures.   | 31                     |
|        | 1.A.03.06 | Discuss the role of the individual and the company/organization in ensuring workplace safety including transportation to and from school, school activities and the workplace.  | 19-32                  |
|        | 1.A.03.07 | Discuss ways to identify, prevent and report school and workplace violence, discrimination, harassment and bullying.  | 11, 678                |



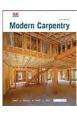
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|          |                | Strands  | Correlating Text Pages |
|----------|----------------|--|------------------------|
|          | 1.A.03.08      | Demonstrate positive and appropriate behavior that   |                        |
|          |                | contributes to a safe and healthy environment in   | 19-32, 678             |
|          |                | school and the workplace.  |                        |
| Strand 2 | : Technical Kı | nowledge and Skills  |                        |
| 2.A (    | Carpentry Saf  | fety and Health Knowledge and Skills   |                        |
| 2.A.01   | Successfull    | ly complete safety training on all related equipment and m                                   | naterials.             |
|          | 2.A.01.01      | Demonstrate use, storage, and maintenance of all   |                        |
|          |                | related hand and power tools, according to current   | 69 -82                 |
|          |                | industry and OSHA standards.   |                        |
|          | 2.A.01.02      | Identify and describe scaffold safety practices and  | 25-26                  |
|          |                | procedures.  | 23 20                  |
|          | 2.A.01.03      | Use and maintain ladders, scaffolding, and fall  |                        |
|          |                | protection according to current industry and OSHA  | 25 -26                 |
|          |                | standards.   |                        |
|          | 2.A.01.04      | Identify the safety hazards associated with the use of                                       | 110-123                |
|          |                | ladder brackets, and suggest alternatives.   |                        |
|          | 2.A.01.05      | Identify and apply OSHA and other health and safety  |                        |
|          |                | regulations that apply to specific tasks and jobs in   | 19 -32                 |
|          |                | carpentry.   |                        |
|          |                | ns and Prints  |                        |
| 2.B.01   |                | ne basic layout of a set of construction documents.  |                        |
|          | 2.B.01.01      | Identify and describe a site plan from a basic set of  | 130 -132               |
|          |                | construction plans.  |                        |
|          | 2.B.01.02      | Identify and describe a floor plan from a basic set of                                       | 130 -132               |
|          | 2 2 24 22      | construction plans.  |                        |
|          | 2.B.01.03      | Identify and describe a framing plan from a basic set of                                     | 133                    |
|          | 2 2 24 24      | construction plans.  |                        |
|          | 2.B.01.04      | Identify and describe elevations from a basic set of   | 132-133                |
|          | 2 2 24 25      | construction plans.  |                        |
|          | 2.B.01.05      | Identify and describe cross sections from a basic set of                                     | 133 -138               |
|          | 2.04.00        | construction plans.  |                        |
|          | 2.B.01.06      | Identify and describe details from a basic set of  | 133 -138               |
| 2 0 02   | Dofine has     | construction plans.  |                        |
| 2.B.02   | 2.B.02.01      | ic abbreviations, line types, symbols and notes.  Identify and define abbreviations found on | 1                      |
|          | 2.0.02.01      | construction plans.  | 143, 856 -857          |
|          | 2.B.02.02      | Identify and define object lines and dimension lines.  | 128 -129               |
|          | 2.B.02.02      | Identify and define hidden lines and centerlines.  | 128-129                |
|          | 2.B.02.04      | Identify and define break line, extension line and   | 120 123                |
|          | 2.0.02.04      | leader line.   | 128-129                |
|          | 2.B.02.05      | Identify and define window, door and stair floor plan  |                        |
|          | 2.0.02.03      | symbols.   | 140-142, 569-571       |
|          | 2.B.02.06      | Identify and define basic electric floor plan symbols.                                       | 142                    |
|          | 2.B.02.07      | Identify and define basic electric floor plan symbols.                                       | 142                    |
| L        | 2.0.02.07      | racitally and actific basic plantbillig floor plant syllibols.                               | 174                    |



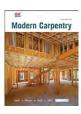
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|        |                        | Strands   | Correlating Toyt Bages         |
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|        | 2 2 2 22               |   | Correlating Text Pages         |
| 0.00   | 2.B.02.08              | Define and describe the purpose of the north symbol.                                | 140 -142                       |
| 2.B.03 |                        | true measurements from prints.  |                                |
|        | 2.B.03.01              | Calculate missing dimensions on a plan without the use                              | 142 -143                       |
|        | 2 5 02 02              | of a scale.   |                                |
|        | 2.B.03.02              | Calculate finish floor to finish floor dimensions from                              | 132 -138                       |
| 2.0.04 | Dagariba d             | cross section or elevations. etail views and schedules.                             |                                |
| 2.B.04 | 2.B.04.01              |   | 136-138                        |
|        | 2.B.04.01<br>2.B.04.02 | Locate a detail view on a drawing.  Describe the detail of the view.                | 136-138                        |
|        | 2.B.04.02<br>2.B.04.03 | Locate the door schedule on a drawing.  | 141                            |
|        | 2.B.04.03<br>2.B.04.04 |   | 141                            |
|        |                        | Identify the door sizes and types.  |                                |
|        | 2.B.04.05<br>2.B.04.06 | Locate the window schedule on a drawing.  | 141, 398 -399<br>141, 398 -399 |
|        |                        | Identify the window sizes and types.  | -                              |
|        | 2.B.04.07<br>2.B.04.08 | Locate a finish schedule on a drawing.  Identify the room finishes on the schedule. | 546-565<br>546-565             |
| 2 D OF |                        | naterial take off.  | 340-303                        |
| 2.B.05 | 2.B.05.01              | Develop a stock list.   | 268-270                        |
|        | 2.B.05.01<br>2.B.05.02 | Develop a stock list.  Develop a true cost for the items on the stock list.         | 268-270                        |
|        |                        | Determine the delivery method and time frame for the                                | 208-270                        |
|        | 2.B.05.03              | stock list.   | 268-270                        |
|        | 2.B.05.04              | Identify the supplier and contact information.                                      | 268-270                        |
| 2.B.06 |                        | e and local building codes.   | 200 270                        |
| 2.5.00 | 2.B.06.01              | State the purpose of zoning regulations.  | 153                            |
|        | 2.B.06.02              | Describe the relationship of the Massachusetts                                      |                                |
|        | 2.5.00.02              | Building Code to the IBC.   | 144-149                        |
|        | 2.B.06.03              | Compare the differences between residential and                                     |                                |
|        |                        | commercial codes.   | 144 -149                       |
|        | 2.B.06.04              | Explain how a building permit incorporates local                                    | 140.450                        |
|        |                        | building codes.   | 148-150                        |
|        | 2.B.06.05              |   | 149-150                        |
|        | 2.B.06.06              | Explain the purpose and procedure for obtaining a                                   | 150                            |
|        |                        | Certificate of Occupancy.   | 150                            |
| 2.C S  | pecifications          | 3   |                                |
| 2.C.01 | Identify, ex           | plain, and use specifications for a construction project.                           |                                |
|        | 2.C.01.01              | Describe the importance of project specifications and                               | 144                            |
|        |                        | their use.  | 144                            |
|        | 2.C.01.02              | Define the divisions that are related to the carpentry                              | 144                            |
|        |                        | field.  | 177                            |
|        |                        | the Fundamentals of Carpentry   |                                |
| 2.D.01 | _                      | and describe the use of building materials.   |                                |
|        | 2.D.01.01              | Identify and describe the types of building materials.                              | 35 -68                         |
|        | 2.D.01.02              | Describe the use of different types of building                                     | 35 -68                         |
|        |                        | materials.  | 00 00                          |
| 2.D.02 | Recognize              | and describe the use of engineered materials.                                       |                                |



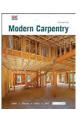
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|         |                             | Strands   | Correlating Text Pages |  |
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|         | 2.D.02.02                   | 6   | 53-56, 548, 629        |  |
| 2.D.03  |                             | re-fabricated panelized systems.  | 1                      |  |
|         | 2.D.03.01                   | Identify, define, and describe pre-fabricated                                   | 698-711                |  |
|         |                             | construction systems.   | 000 / 12               |  |
|         | 2.D.03.02                   | · · · · · · · · · · · · · · · · · · ·   | 698-711                |  |
|         |                             | building materials.   |                        |  |
|         | 2.D.03.03                   | Describe the installation procedures for pre-fabricated                         | 698-711                |  |
| 2 2 2 4 |                             | building materials.   |                        |  |
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|         | 2.D.04.04                   | Define the importance of a 3-4-5 triangle to carpentry calculations.            | 849 -850               |  |
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|         | 2.D.04.07                   | Calculate the area of circles, triangles, squares,                              | 0.45 0.40              |  |
|         |                             | rectangles and trapezoids.  | 845 -848               |  |
| 2.D.05  | Describe layout procedures. |   |                        |  |
|         | 2.D.05.01                   | Describe and demonstrate the installation of batter board.                      | 173 -174               |  |
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|         | 2.D.05.04                   | Layout floor/ceiling joists.  | 228-238                |  |
|         | 2.D.05.05                   | Layout exterior wall plates and shoes residential.                              | 249-252                |  |
|         | 2.D.05.06                   | Layout exterior wall plates and shoes commercial.                               | 249-252                |  |
|         | 2.D.05.07                   |   | 276-284                |  |
|         | 2.D.05.08                   | Layout stair stringer.  | 576-577                |  |
|         | 2.D.05.09                   | Layout a story pole.  | 576-577                |  |
| 2.D.06  | Describe lu                 | ımber storage techniques.   |                        |  |
|         | 2.D.06.01                   | Describe the best practices for storing materials.                              | 35-64                  |  |
| 2.D.07  | Check insta                 | alled items for square, plumb and level.  |                        |  |
|         | 2.D.07.01                   | Check walls for plumb using a level and a plumb bob.                            | 73-74                  |  |
|         | 2.D.07.02                   | Check floors and walls for square.  | 70-72                  |  |
|         | 2.D.07.03                   | Demonstrate and describe how to check floors and                                | 157-167                |  |
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| 2.E H   | land Tools                  |   |                        |  |
| 2.E.01  | Describe a                  | nd demonstrate the use and care of hand tools.                                  |                        |  |
|         | 2.E.01.01                   | Demonstrate use and maintenance of layout, marking, and measuring tools.        | 69-74                  |  |
|         | 2.E.01.02                   | Demonstrate use and maintenance of fastening, clamping, and dismantling tools.  | 77-81                  |  |
|         |                             |   | · ·                    |  |



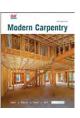
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|        |              | Strands   | Correlating Text Pages |
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|        | 2 5 01 02    |   | 74-76                  |
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|        | 2.F.01.01    | Demonstrate the use and maintenance of a portable circular saw.                                   | 88-90                  |
|        | 2.F.01.02    | Demonstrate the use and maintenance of a portable power miter box.                                | 100-102                |
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| 2.F.02 | Use, store,  | and maintain drilling and boring tools.   |                        |
|        | 2.F.02.01    | Demonstrate the use and maintenance of portable drills.   | 93-94                  |
| 2.F.03 | Use, store,  | and maintain routers and sanders.   |                        |
|        | 2.F.03.01    | Demonstrate the use and maintenance of a portable router.   | 96-98                  |
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|        | adders and S |   |                        |
| 2.G.01 |              | nd demonstrate the use and maintenance of ladders and b   | prackets.              |
|        | 2.G.01.01    | Identify and describe ladder safety practices and procedures.                                     | 25-26                  |
|        | 2.G.01.02    | Demonstrate the use and maintenance of extension ladders.   | 118-120                |
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|        | 2.G.01.04    | Identify the safety hazards associated with the use of ladder brackets, and suggest alternatives. | 25-26, 115-117         |
|        | 2.G.01.05    | Demonstrate the use and maintenance of wall brackets.   | 115-117                |
|        | 2.G.01.06    | Demonstrate the use and maintenance   | 15-120                 |
| 2.G.02 |              | aintain wood, metal, and pump jack scaffolds.   | <u>-</u>               |
|        | 2.G.02.01    |   | 25-26                  |
|        |              |   |                        |



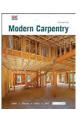
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|        |  | Ctrondo   | Correlating Toyt Dogge |
|--------|--|---|------------------------|
|        |  | Strands   | Correlating Text Pages |
|        |  | Erect tubular pipe staging.   | 110-117                |
|        |  | Erect light duty rolling scaffolds.   | 110-117                |
|        |  | Erect pump jack staging.  | 110-117                |
|        | 2.G.02.05  |   | 110-117                |
|        | 1  | systems.  | 1                      |
|        | adders and S   |   |                        |
| 2.G.01 | Describe a   | nd demonstrate the use and maintenance of ladders and   | brackets.              |
|        | 2.G.01.01  | Identify and describe ladder safety practices and procedures.                                     | 25-26                  |
|        | 2.G.01.02  | Demonstrate the use and maintenance of extension ladders.   | 118-120                |
|        | 2.G.01.03  | Demonstrate the use and maintenance of step ladders.  | 118-120                |
|        | 2.G.01.04  | Identify the safety hazards associated with the use of ladder brackets, and suggest alternatives. | 25-26, 115-117         |
|        | 2.G.01.05  | Demonstrate the use and maintenance of wall brackets.   | 115-117                |
|        | 2.G.01.06  | Demonstrate the use and maintenance of roof brackets.   | 115-120                |
| 2.G.02 | Use and maintain wood, metal, and pump jack scaffolds. |   |                        |
|        | 2.G.02.01  | Identify and describe scaffold safety practices and procedures.                                   | 25-26                  |
|        | 2.G.02.02  | Erect tubular pipe staging.   | 110-117                |
|        | 2.G.02.03  | Erect light duty rolling scaffolds.   | 110-117                |
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| 2.H F  | raming   |   |                        |
| 2.H.01 | Describe a   | nd apply the factors in the construction of floor framing s                                       | ystems.                |
|        | 2.H.01.01  | Explain the importance of layout at 16 inches on center.  | 319-321                |
|        | 2.H.01.02  | Identify floor framing members.   | 319-321                |
|        | 2.H.01.03  | Explain why and demonstrate how to crown joists.  | 228-235, 319-321       |
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|        | 2.H.01.06  | Fabricate floor frame and stairwell openings.   | 319-321                |
|        | 2.H.01.07  | Describe the purpose for bridging and apply bridging.   | 235-236                |
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|        | 2.H.01.09  | List the purpose of construction adhesive.  | 239-240                |
|        | 2.H.01.10  | Explain and apply nail spacing and nail sizing.   | 239-240                |
|        | 2.H.01.11  | Apply subfloor material.  | 239-240                |
| 2.H.02 | Demonstra  | ate practices related to framing exterior walls.  |                        |
|        | 2.H.02.01  | Layout and construct bearing walls.   | 181-187                |
|        | 2.H.02.02  | Layout and construct bearing wall openings.   | 185-187                |



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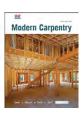


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|        | 2.H.04.01              | Layout a ceiling frame.  | 260 - 263              |  |  |
|        | 2.H.04.02              | Layout a roof frame.   | 274 -314               |  |  |
|        | 2.H.04.03              | Cut and install ceiling frame systems.   | 274 -314               |  |  |
|        | 2.H.04.04              | Cut and install common rafter systems.   | 281 -284               |  |  |
|        | 2.H.04.05              | Sheath a gable roof.   | 285 -288               |  |  |
|        | 2.H.04.06              | Layout and install strapping.  | 285 -288               |  |  |
|        | 2.H.04.07              | Identify hip and valley roof systems.  | 288 -295               |  |  |
|        | 2.H.04.08              | Identify roof truss systems.   | 302 -308               |  |  |
|        | inish Carpen           |  |                        |  |  |
| 2.1.01 |                        | te practices related to exterior finish.   |                        |  |  |
|        | 2.1.01.01              | Install room trim.   | 426-49                 |  |  |
|        | 2.1.01.02              | Install roofing materials.   | 329-369                |  |  |
|        | 2.1.01.03              | Install windows and doors.   | 404-407, 594-597       |  |  |
|        | 2.1.01.04              | Apply siding and finish trim.  | 426-469                |  |  |
|        | 2.1.01.05              | Identify proper installation of platforms, guardrails and handrails.                     | 568-584                |  |  |
|        | 2.1.01.06              | Apply caulking and weatherization materials.   | 639-640                |  |  |
| 2.1.02 | Demonstra              | te practices related to interior finish.   |                        |  |  |
|        | 2.1.02.01              | Identify insulation material systems.  | 475-507                |  |  |
|        | 2.1.02.02              | Install wall board products.   | 656-660                |  |  |
|        | 2.1.02.03              | Install door and window trim.  | 605-606                |  |  |
|        | 2.1.02.04              | Install interior doors.  | 594 -597               |  |  |
|        | 2.1.02.05              | Install underlayment.  | 333-334, 558 -559      |  |  |
|        | 2.1.02.06              | Install baseboard trim.  | 609 -660               |  |  |
|        | 2.1.02.07              | Install closet interiors.  | 656 -660               |  |  |
|        | 2.1.02.08              | Install stair trim.  | 568 -584               |  |  |
|        |                        | Identify kitchen and bath cabinets, counter tops, and                                    |                        |  |  |
|        | 2.1.02.09              | installation procedures.   | 614 -634               |  |  |
| 2.J (  | Commercial Carpentry   |  |                        |  |  |
| 2.J.01 |                        | te commercial carpentry tasks.   |                        |  |  |
|        | 2.J.01.01              | Frame metal stud partitions.   | 321 -324               |  |  |
|        | 2.J.01.02              | Install suspended ceiling systems.   | 538 -539               |  |  |
|        |                        |  |                        |  |  |



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|        |  | Strands  | Correlating Text Pages |  |  |
|--------|--|--|------------------------|--|--|
|        | 2.J.01.03  | Identify basic concrete form work principles and applications. | 187-192                |  |  |
| 2.K E  | 2.K Energy Efficient Systems                                       |  |                        |  |  |
| 2.K.01 | K.01 Identify energy efficient materials and their use.            |  |                        |  |  |
|        | 2.K.01.01 Describe an energy efficient building envelope. 715 -732 |  |                        |  |  |

#### **Strand 3: Embedded Academic**

Strand 3: Embedded Academics, a critical piece of a Vocational Technical Education Framework, are presented as Crosswalks between the Massachusetts Vocational Technical Education Frameworks and the Massachusetts Curriculum Frameworks. These Crosswalks can be found in the Appendices of the Massachusetts Vocational Technical Education Framework.

#### **Academic Crosswalks**

Appendix A: English Language Arts

Appendix B: Mathematics

Appendix C: Science and Technology/Engineering

Earth and Space Science Life Science (Biology)

Physical Science (Chemistry and Physics)

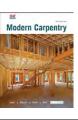
Technology/Engineering

#### **Strand 4: Employability and Career Readiness**

| 4.A (  | Career Exploration and Navigation |   |       |  |  |
|--------|-----------------------------------|---|-------|--|--|
| 4.A.01 | Develop a d                       | Develop a career plan and portfolio.  |       |  |  |
|        | 4.A.01.01                         | Develop and revise career plan annually based on workplace awareness and skill attainment.  | 5-15  |  |  |
|        | 4.A.01.02                         | Assess personal strengths and interest areas to determine potential careers, career pathways and career ladders.  | 5-15  |  |  |
|        | 4.A.01.03                         | Examine potential career field(s)/discipline(s) and identify criteria to select, secure and keep employment in chosen field(s).   | 5 -15 |  |  |
|        | 4.A.01.04                         | Research and evaluate a variety of careers utilizing multiple sources of information and resources to determine potential career(s) and alternatives.   | 5 -15 |  |  |
|        | 4.A.01.05                         | Identify training and education requirements that lead to employment in chosen field(s) and demonstrate skills related to evaluating employment opportunities.  | 7 -11 |  |  |
|        | 4.A.01.06                         | Explore and evaluate postsecondary educational opportunities including degrees and certifications available, traditional and nontraditional postsecondary pathways, technical school and apprenticeships, cost of education, financing methods including scholarships and loans and the cost of loan repayment. | 7 -14 |  |  |



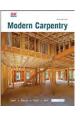
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|         |              | Strands   | Correlating Toyt Pages |
|---------|--------------|---|------------------------|
|         | 4.A.01.07    | Create a portfolio showcasing academic and career growth including a career plan, safety credential, resume and a competency profile demonstrating the acquisition of the knowledge and skills associated with at least two years of full-time study in the Chapter 74 program. | 7 -14                  |
| 4.A.02  | Demonstra    | te job search skills.   |                        |
| 7.71.02 | 4.A.02.01    | Conduct a job search and complete written and electronic job applications, resumes, cover letters and related correspondence for a chosen career path.  | 6 -7                   |
|         | 4.A.02.02    | Explore and evaluate postsecondary job opportunities and career pathways specific to career technical areas.  | 7 -14                  |
|         | 4.A.02.03    | Identify role and use of social media and networking for staying current with career and employment trends as well as networking, job seeking and career development opportunities.   | 5-15                   |
|         | 4.A.02.04    | Demonstrate ability to use social media and networking to develop useful occupational contacts, job seeking and career development opportunities.   | 5-15                   |
| 4.A.03  | Demonstra    | te all phases of the job interview process.   |                        |
|         | 4.A.03.01    | Gather relevant information about potential employer(s) from multiple print and digital sources, assessing the credibility and accuracy of each source.   | 5-15                   |
|         | 4.A.03.02    | Identify employment eligibility criteria, such as drug/alcohol free status, clean driving record, etc.  | 5-15                   |
|         | 4.A.03.03    | Practice effective interviewing skills: appearance, inquiry and dialogue with interviewer, positive attitude and evidence of work ethic and skills.   | 5-15                   |
|         | 4.A.03.04    | Explore and evaluate employment benefit packages including wages, vacation, health care, union dues, cafeteria plans, tuition reimbursement, retirement and 401K.   | 5-15                   |
| 4.B C   | ommunication | on in the Workplace   |                        |
| 4.B.01  | Demonstra    | te appropriate oral and written communication skills in th  | e workplace.           |
|         | 4.B.01.01    | Communicate effectively using the language and vocabulary appropriate to a variety of audiences within the workplace including coworkers, supervisors and customers.  | 7-12, 48, 885-886      |
|         | 4.B.01.02    | Read technical and work-related documents and demonstrate understanding in oral discussion and written exercise.  | 7-12, 48, 885-886      |
|         | 4.B.01.03    | Demonstrate professional writing skills in work-related materials and communications (e.g., letters,  | 7-12, 48, 885-886      |



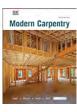
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|        |   | Strands   | Correlating Text Pages                  |
|--------|---|---|---|
|        |   | memoranda, instructions and directions, reports,        | Jan |
|        |   | summaries, notes and/or outlines).                      |   |
|        |   | Use a variety of writing/publishing/presentation        |   |
|        | 4.B.01.04                               | applications to create and present information in the   | 7-12, 48, 885-886                       |
|        |   | workplace.  |   |
|        |   | Identify, locate, evaluate and use print and electronic |   |
|        | 4.B.01.05                               | resources to resolve issues or problems in the          | 7-12, 48, 885-886                       |
|        |   | workplace.  | ,,                                      |
|        |   | Use a variety of financial and data analysis tools to   |   |
|        | 4.B.01.06                               | analyze and interpret information in the workplace.     | 7-12, 48, 885-886                       |
|        |   | Orally present technical and work-related information   |   |
|        | 4.B.01.07                               | to a variety of audiences.                              | 7-12, 48, 885-886                       |
|        |   | Identify and demonstrate professional non-verbal        |   |
|        | 4.B.01.08                               | communication   | 7-12, 48, 885-886                       |
| 4.B.02 | Demonstra                               | te active listening skills.                             |   |
|        | 4.B.02.01                               | Listen attentively and respectfully to others.          | 7-12, 48, 885-886                       |
|        |   | Focus attentively, make eye contact or other affirming  |   |
|        | 4.B.02.02                               | gestures, confirm understanding and follow              | 7-12, 48, 885-886                       |
|        |   | directions.   | , ,                                     |
|        |   | Show initiative in improving communication skills by    |   |
|        | 4.B.02.03                               | asking follow-up questions of speaker in order to       | 7-12, 48, 885-886                       |
|        |   | confirm understanding.                                  |   |
| 4.C V  | Vork Ethic an                           | d Professionalism                                       |   |
| 4.C.01 | Demonstrate attendance and punctuality. |   |   |
|        |   | Identify and practice professional time-management      |   |
|        | 4.C.01.01                               | and attendance behaviors including punctuality,         | 7-12, 885-886                           |
|        |   | reliability, planning and flexibility.                  |   |
| 4.C.02 | Demonstra                               | te proper workplace appearance.                         |   |
|        | 4.C.02.01                               | Identify and practice professional appearance specific  | 7-12, 885-886                           |
|        | 4.0.02.01                               | to the workplace.                                       | 7-12, 863-880                           |
|        | 4.C.02.02                               | Identify and practice personal hygiene appropriate for  | 7-12, 885-886                           |
|        | 7.0.02.02                               | duties specific to the workplace.                       | , 12, 003 000                           |
|        | 4.C.02.03                               | Identify and wear required safety gear specific to the  | 23-24                                   |
|        |   | workplace.  | 25 27                                   |
| 4.C.03 | Accepts dir                             | ection and constructive criticism.                      |   |
|        |   | Demonstrate ability (both verbally and non-verbally)    |   |
|        | 4.C.03.01                               | to accept direction and constructive criticism and to   | 7-12, 48, 885-886                       |
|        |   | implement solutions to change behaviors.                |   |
|        | 4.C.03.02                               | Ask appropriate questions to clarify understanding of   | 7-12, 48, 885-886                       |
|        | 1.0.03.02                               | feedback.   | . 12, 10, 303 333                       |
|        |   | Analyze own learning style and seek instructions in a   |   |
|        | 4.C.03.03                               | preferred format that works best for their              | 7-12, 48, 885-886                       |
|        | 1.0.00.00                               | understanding (such as oral, written or visual          | , 12, 10, 303 333                       |
| i      | 1                                       | instruction).   |   |



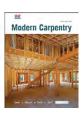
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|        |  | Strands  | Correlating Text Pages |  |
|--------|--|--|------------------------|--|
| 4.C.04 | Demonstra                              | te motivation and initiative.  | <u> </u>               |  |
|        | 4.C.04.01                              | Evaluate assigned tasks for time to completion and prioritization.   | 7-12, 885-886          |  |
|        | 4.C.04.02                              | Demonstrate motivation through enthusiasm, engagement, accurate completion of tasks and activities.  | 7-12, 885-886          |  |
|        | 4.C.04.03                              | Demonstrate initiative by requesting new assignments and challenges.   | 7-12, 885-886          |  |
|        | 4.C.04.04                              | Explain proposed solutions to challenges observed in the workplace.  | 7-12, 278, 885-886     |  |
|        | 4.C.04.05                              | Demonstrate the ability to evaluate multiple solutions to problems and challenges using critical reasoning and workplace/industry knowledge and select the best solution to the problem. | 7-12, 278, 885-886     |  |
|        | 4.C.04.06                              | Implement solution(s) to challenges and/or problem(s) observed in the workplace.   | 7-12, 278, 885-886     |  |
|        | 4.C.04.07                              | See projects through completion and check work for quality and accuracy.   | 7-12, 885-886          |  |
| 4.C.05 | Demonstra                              | te awareness of workplace culture and policy.  |                        |  |
|        | 4.C.05.01                              | Display ethical behavior in use of time, resources, computers and information.   | 7-12, 885-886          |  |
|        | 4.C.05.02                              | Identify the mission of the organization and/or department.  | 7-12, 885-886          |  |
|        | 4.C.05.03                              | Explain the benefits of a diverse workplace.   | 7-12, 678, 885-886     |  |
|        | 4.C.05.04                              | Demonstrate a respect for diversity and its benefit to the workplace.  | 7-12, 678, 885-886     |  |
| 4.C.06 | Interact appropriately with coworkers. |  |                        |  |
|        | 4.C.06.01                              | Work productively with individuals and in teams.   | 6-12, 885-886          |  |
|        | 4.C.06.02                              | Develop positive mentoring and collaborative relationships within work environment.  | 6-12, 885-886          |  |
|        | 4.C.06.03                              | Show respect and collegiality, both formally and informally.   | 6-12, 885-886          |  |
|        | 4.C.06.04                              | Explain and follow workplace policy on the use of cell phones and other forms of social media.   | 6-12, 885-886          |  |
|        | 4.C.06.05                              | Maintain focus on tasks and avoid negative topics or excessive personal conversations in the workplace.  | 6-12, 885-886          |  |
|        | 4.C.06.06                              | Negotiate solutions to interpersonal and workplace conflicts.  | 6-12, 885-886          |  |
|        |  | nt and Entrepreneurship Knowledge and Skills   |                        |  |
|        | tarting a Bus                          |  |                        |  |
| 5.A.01 | Demonstra                              | Demonstrate an understanding of the practices required to start a business.  |                        |  |
|        | 5.A.01.01                              | Define entrepreneurship and be able to recognize and describe the characteristics of an entrepreneur.  | 12-13                  |  |



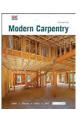
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|        |  | Strands  | Correlating Text Pages |
|--------|--|--|------------------------|
|        |  | Compare and contrast types of business ownership         | 3 5                    |
|        | 5.A.01.02  | (i.e., sole proprietorships, franchises, partnerships,   | 12-13                  |
|        |  | corporations).   |                        |
|        |  | Identify and explain the purpose and contents of a       | 10.10                  |
|        | 5.A.01.03  | business plan.   | 12-13                  |
|        |  | Demonstrate an understanding of the principles and       |                        |
|        | 5.A.01.04  | concepts of a business's supply chain (i.e., suppliers,  | 12-13                  |
|        |  | producers and consumers                                  |                        |
| 5.B N  | Managing a B   | usiness  |                        |
| 5.B.01 | Demonstrate an understanding of managing a business. |  |                        |
|        | 5.B.01.01  | Formulate short- and long-term business goals.           | 12-13                  |
|        | 5 5 04 00  | Demonstrate effective verbal, written and visual         | 7.40.40.005.006        |
|        | 5.B.01.02  | communication skills.                                    | 7-12, 48, 885-886      |
|        | 5 B 04 03  | Utilize a decision-making process to make effective      | 7.42.005.006           |
|        | 5.B.01.03  | business decisions.                                      | 7-12, 885-886          |
|        | F D 01 04  | Identify a business's chain of command and define its    | 12.12                  |
|        | 5.B.01.04  | organizational structure.                                | 12-13                  |
|        | F D 01 0F  | Identify and apply effective customer service skills and | 12-13                  |
|        | 5.B.01.05  | practices.   | 12-13                  |
|        | 5.B.01.06  | Identify, interpret and develop written operating        | 12.12.40               |
|        | 5.8.01.06  | procedures and policies.                                 | 12-13, 48              |
|        | 5.B.01.07  | Track inventory, productivity and labor cost.            | 12-13                  |
|        | 5.B.01.08  | Demonstrate business meeting skills.                     | 12-13, 48              |
|        | 5.B.01.09  | Identify professional organizations and explore their    | 15 16 995 996          |
|        | 3.6.01.09  | benefits.  | 15-16, 885-886         |
| 5.C N  | Marketing a B  | Business   |                        |
| 5.C.01 |  |  | ess.                   |
|        | 5.C.01.01  | Explain the role of business in the economy.             | 4-5, 12-13             |
|        | 5.C.01.02  | Describe the relationship between business and           | 12-13                  |
|        | 3.C.01.02  | community.   | 12-13                  |
|        | 5.C.01.03  | Describe methods of market research and identifying      | 12-13                  |
|        | 3.0.01.03  | target markets.  | 12-13                  |
|        |  | Describe and apply the concepts of a marketing mix       |                        |
|        | 5.C.01.04  | (the 4Ps of marketing: product, price, place and         | 12-13                  |
|        |  | promotion).  |                        |
|        | 5.C.01.05  | Compare and contrast the promotional tools and           |                        |
|        |  | techniques used to sell products, services, images and   | 12-13                  |
|        |  | ideas.   |                        |
|        | 5.C.01.06  | Describe the impact of supply and demand on a            | 12-13                  |
|        |  | product or business.                                     |                        |
|        | 5.C.01.07  | Identify direct and indirect competition on a business.  | 12-13                  |
|        | 5.C.01.08  | Identify and use sales techniques to meet client needs   | 12-13                  |
|        | 3.0.01.00  | and wants.   |                        |



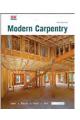
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|        |                        | Strands   | Correlating Text Pages            |
|--------|------------------------|---|-----------------------------------|
|        |                        | Discuss strategies to acquire and retain a customer                                       |                                   |
|        | 5.C.01.09              | base.   | 12-13                             |
| 5.D F  | inancial Cond          | cepts and Applications in Business  |                                   |
| 5.D.01 | Demonstra              | te an understanding of financial concepts and application                                 | S.                                |
|        |                        | Identify essential financial reports and understand                                       |                                   |
|        | 5.D.01.01              | their purpose (i.e., budget, balance sheet and income                                     | 12-13                             |
|        |                        | statement).   |                                   |
|        | 5.D.01.02              | Describe payroll practices (i.e., deductions -federal,                                    | 12-13                             |
|        | 3.5.01.02              | FICA and state taxes and insurances).   | 11 10                             |
|        | 5.D.01.03              | Identify the importance of maintaining accurate   | 12-13                             |
|        |                        | records.  | -                                 |
|        | 5.D.01.04              | Apply practices related to pricing, purchasing and  | 12-13                             |
|        | E D 04 05              | billing.  | 12.12                             |
|        | 5.D.01.05              | Maintain and reconcile a checking account.  | 12-13                             |
|        | 5.D.01.06              | Identify the options for funding a business.  | 12-13                             |
|        |                        | Social Responsibilities   | lite. for businesses              |
| 5.E.01 | Demonstra              | te an understanding of legal, ethical and social responsibi                               |                                   |
|        | 5.E.01.01              | Identify state and federal laws and regulations related to managing a business.           | 12-13                             |
|        | 5.E.01.02              | Describe and identify ethical business practices.   | 11-13                             |
|        | 5.E.01.02<br>5.E.01.03 | Demonstrate an understanding of business contracts.                                       | 12-13                             |
|        | 5.E.01.03              | Explain the role of diversity in the workplace.   | 678                               |
|        | 5.E.01.05              | Explain the role of diversity in the workplace.  Explain the role of labor organizations. | 12-13                             |
|        | J.L.01.03              | Identify practices that support clean energy  | 12-13                             |
|        | 5.E.01.06              | technologies and encourage environmental  | 715-732                           |
|        | 3.2.01.00              | sustainability.   | 713 732                           |
|        |                        | Demonstrate an understanding of how technology  |                                   |
|        | 5.E.01.07              | advancements impact business practices.   | 715-732                           |
| 6.A T  | echnology Li           | teracy Knowledge and Skills (Grades 9 through 12)   |                                   |
|        |                        | te proficiency in the use of computers and applications, a                                | s well as an understanding of the |
| 6.A.01 |                        | nderlying hardware, software, and connectivity.   | · ·                               |
|        |                        | Use online help and other support to learn about  |                                   |
|        | 6.A.01.01              | features of hardware and software, as well as to  | 11                                |
|        |                        | assess and resolve problems.  |                                   |
|        | 6.A.01.02              | Install and uninstall software; compress and expand                                       | 11                                |
|        |                        | files (if the district allows it).  |                                   |
|        | 6.A.01.03              | Explain effective backup and recovery strategies.   | 11                                |
|        |                        | Apply advanced formatting and page layout features  | 11                                |
|        | 6.A.01.04              | when appropriate (e.g., columns, templates, and   |                                   |
|        | 3.7.1.51.07            | styles) to improve the appearance of documents and  |                                   |
|        |                        | materials.  |                                   |
|        | 6.A.01.05              | Use editing features appropriately (e.g., track   | 11                                |
|        |                        | changes, insert comments).  |                                   |



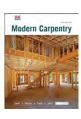
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|        |   | Strands  | Correlating Text Pages                 |
|--------|---|--|--|
|        | 6.A.01.06   | Identify the use of word processing and desktop  | 11                                     |
|        | 6.A.U1.U6   | publishing skills in various careers.  |  |
|        | 6.A.01.07   | Identify the use of database skills in various careers.  | 11                                     |
|        | 6.A.01.08   | Define and use functions of a spreadsheet application (e.g., sort, filter, find).  | 11                                     |
|        | 6.A.01.09   | Explain how various formatting options are used to convey information in charts or graphs.   | 11                                     |
|        | 6.A.01.10   | Identify the use of spreadsheet skills in various careers.   | 11                                     |
|        | 6.A.01.11   | Use search engines and online directories.   | 11                                     |
|        | 6.A.01.12   | Explain the differences among various search engines and how they rank results.  | 11                                     |
|        | 6.A.01.13   | Explain and demonstrate effective search strategies for locating and retrieving electronic information (e.g., using syntax and Boolean logic operators). | 11                                     |
|        | 6.A.01.14   | Describe good practices for password protection and authentication.  | 11                                     |
| 6.A.02 |   | te the responsible use of technology and an understandin   | g of ethics and safety issues in using |
| 0.A.02 | electronic r  | media at home, in school, and in society.  |  |
|        | 6.A.02.01   | Demonstrate compliance with the school's Acceptable Use Policy.  | 11                                     |
|        | 6.A.02.02   | Explain issues related to the responsible use of technology (e.g., privacy, security).   | 11                                     |
|        | 6.A.02.03   | Explain laws restricting the use of copyrighted materials.   | 11                                     |
|        | 6.A.02.04   | Identify examples of plagiarism, and discuss the possible consequences of plagiarizing the work of others.   | 11                                     |
| 6.A.03 | Design and implement a personal learning plan that includes the use of technology to support lifelong learning goals. |  |  |
|        | 6.A.03.01   | Evaluate the authenticity, accuracy, appropriateness, and bias of electronic resources, including Web sites.   | 11                                     |
|        | 6.A.03.02   | Analyze the values and points of view that are presented in media messages.  | 11                                     |
|        | 6.A.03.03   | Describe devices, applications, and operating system features that offer accessibility for people with disabilities.                                     | 11                                     |
|        | 6.A.03.04   | Evaluate school and work environments in terms of ergonomic practices.   | 19-22                                  |
|        | 6.A.03.05   | Describe and use safe and appropriate practices when participating in online communities (e.g., discussion groups, blogs, social networking sites).      | 11                                     |
|        | 6.A.03.06   | Explain and use practices to protect one's personal safety online (e.g., not sharing personal information  | 11                                     |



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|         |  | Strands   | Correlating Text Pages |  |
|---------|--|---|------------------------|--|
|         |  | with strangers, being alert for online predators,         |                        |  |
|         |  | reporting suspicious activities).                         |                        |  |
|         | 6.A.03.07  | Explain ways individuals can protect their technology     | 11                     |  |
|         | 0.7 (.03.07  | systems and information from unethical users.             |                        |  |
| 6.A.04  | Demonstrate the ability to use technology for research, critical thinking, problem solving, decision making, |   |                        |  |
| 0.71.04 | communication, collaboration, creativity, and innovation.  |   |                        |  |
|         |  | Devise and demonstrate strategies for efficiently         |                        |  |
|         | 6.A.04.01  | collecting and organizing information from electronic     | 6-12, 278              |  |
|         |  | sources.  |                        |  |
|         | 6.A.04.02  | Compare, evaluate, and select appropriate electronic      | 11                     |  |
|         | 0.A.04.02  | resources to locate specific information.                 | 11                     |  |
|         | 6.A.04.03  | Select the most appropriate search engines and            | 11                     |  |
|         | 0.A.04.03  | directories for specific research tasks.                  | 11                     |  |
|         |  | Use a variety of media to present information for         |                        |  |
|         | 6.A.04.04  | specific purposes (e.g., reports, research papers,        | 11                     |  |
|         | 0.A.04.04  | presentations, newsletters, Web sites, podcasts,          |                        |  |
|         |  | blogs), citing sources.                                   |                        |  |
|         |  | Demonstrate how the use of various techniques and         |                        |  |
|         | 6.A.04.05  | effects (e.g., editing, music, color, rhetorical devices) | 11                     |  |
|         |  | can be used to convey meaning in media.                   |                        |  |
|         |  | Use online communication tools to collaborate with        |                        |  |
|         | 6.A.04.06  | peers, community members, and field experts as            | 11                     |  |
|         | 6.A.04.06  | appropriate (e.g., bulletin boards, discussion forums,    |                        |  |
|         |  | listservs, Web conferencing).                             |                        |  |
|         | 6.A.04.07  | Plan and implement a collaborative project with           |                        |  |
|         |  | students in other classrooms and schools using            |                        |  |
|         |  | telecommunications tools (e.g., e-mail, discussion        | 11                     |  |
|         |  | forums, groupware, interactive Web sites, video           |                        |  |
|         |  | conferencing).  |                        |  |