

| Unit/Standard Number                  | <p style="text-align: right;"><u>High School Graduation Years 2020, 2021 and 2022</u></p> <p style="text-align: center;"><b>Cabinetmaking &amp; Millwork<br/>CIP 48.0703<br/>Task Grid</b></p> | <p style="text-align: center;">Proficiency Level<br/>Achieved:<br/>(X) Indicates<br/>Competency<br/>Achieved to Industry<br/>Proficiency Level</p> |
|---------------------------------------|--|--|
| <b>Secondary Competency Task List</b> |  |  |
| <b>100</b>                            | <b>PERSONAL SAFETY</b>   |  |
| 101                                   | Follow safety rules for working in the cabinetmaking lab.  |  |
| 102                                   | Use cabinetmaking lab tools and equipment.   |  |
| 103                                   | Follow rules for electrical safety.  |  |
| 104                                   | Follow rules for fire safety.  |  |
| 105                                   | Follow rules for general housekeeping.   |  |
| 106                                   | Follow rules for material handling safety.   |  |
| 107                                   | Follow rules for eye protection.   |  |
| 108                                   | Follow rules for hearing protection.   |  |
| 109                                   | Follow rules for respiratory protection.   |  |
| 110                                   | RESERVED   |  |
| 111                                   | RESERVED   |  |
| 112                                   | RESERVED   |  |
| 113                                   | Follow rules for Safety Data Sheets (SDS).   |  |
| 114                                   | Follow rules for ECP (exposure control procedures – blood borne pathogens, etc.)   |  |
| 115                                   | Display positive work ethics.  |  |
|                                       |  |  |
| <b>200</b>                            | <b>LUMBER &amp; CABINETMAKING MATERIALS</b>  |  |
| 201                                   | Identify parts of the tree.  |  |
| 202                                   | Describe methods of sawing timber into lumber.   |  |
| 203                                   | Explain methods of drying green lumber.  |  |
| 204                                   | Describe and identify defects in lumber.   |  |
| 205                                   | Identify various types of wood and lumber used to build cabinets.  |  |
| 206                                   | Explain how cabinet lumber is graded.  |  |
| 207                                   | Identify cabinet lumber and construction grade lumber.   |  |
| 208                                   | Identify particle board.   |  |
| 209                                   | Identify medium density fiberboard.  |  |
| 210                                   | Identify oriented strand board.  |  |
| 211                                   | RESERVED   |  |
| 211                                   | Identify veneer core plywood.  |  |
| 212                                   | Identify plastic laminates.  |  |
| 213                                   | Identify solid surface materials.  |  |
|                                       |  |  |
| <b>300</b>                            | <b>BLUEPRINTS</b>  |  |

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|----------------------|--|--|
| 301                  | Use blueprint trade terminology.   |  |
| 302                  | Draw a product.  |  |
| 303                  | Dimension a drawing of a product.  |  |
| 304                  | RESERVED   |  |
| 305                  | Calculate "scaled" dimensions using an architect's rule.   |  |
| 306                  | Draw a multiple view blueprint of a cabinet.   |  |
| 307                  | Draw a floor plan.   |  |
| 308                  | Read a floor plan.   |  |
| 309                  | Design a kitchen.  |  |
| 310                  | RESERVED   |  |
| 311                  | Lay out stock for cabinets.  |  |
| 312                  | Create a bill of materials.  |  |
|                      |  |  |
| <b>400</b>           | <b>HAND TOOLS</b>  |  |
| 401                  | Measure with a 6-foot rule or tape measure   |  |
| 402                  | Layout an arc or circle with trammel points.   |  |
| 403                  | Identify various types of hand planes.   |  |
| 404                  | RESERVED   |  |
| 405                  | RESERVED   |  |
| 406                  | Use a file to sharpen edges.   |  |
| 407                  | Use a compass.   |  |
| 408                  | Use a framing square.  |  |
| 409                  | Square an angle with a try square.   |  |
| 410                  | Use a combination square.  |  |
| 411                  | Transfer an angle with a sliding T-bevel square.   |  |
| 412                  | Use a level to check plumb and level.  |  |
| 413                  | RESERVED   |  |
| 414                  | Use various handsaws.  |  |
| 415                  | Use chisels.   |  |
| 416                  | Use a screwdriver to install screws.   |  |
| 417                  | Follow rules for hand tool safety.   |  |
| 418                  | Use various hammers.   |  |
| 419                  | Sharpen cutting or shaping tools.  |  |
|                      |  |  |
| <b>500</b>           | <b>RESERVED</b>  |  |

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|----------------------|--|--|
| 501                  | RESERVED   |  |
| 502                  | RESERVED   |  |
| 503                  | RESERVED   |  |
| 504                  | RESERVED   |  |
| 505                  | RESERVED   |  |
| <b>600</b>           | <b>STATIONARY POWER EQUIPMENT</b>  |  |
| 601                  | Use a jointer.   |  |
| 602                  | Use a surface planer.  |  |
| 603                  | Use a table saw.   |  |
| 604                  | RESERVED   |  |
| 605                  | Use a band saw.  |  |
| 606                  | Use a spindle sander.  |  |
| 607                  | Use a disc sander.   |  |
| 608                  | Use a hollow chisel mortiser.  |  |
| 609                  | Use a belt sander.   |  |
| 610                  | Use a drill press.   |  |
| 611                  | Use a shaper.  |  |
| 612                  | Use a wide belt sander.  |  |
| 613                  | Use a grinding machine.  |  |
| 614                  | Clean-out procedures for a dust collection system.   |  |
| 615                  | Use a router table.  |  |
| 616                  | Follow rules for power equipment safety.   |  |
| 617                  | Use a pocket hole machine.   |  |
| 618                  | Use an edge bander.  |  |
| <b>700</b>           | <b>RESERVED</b>  |  |
| 701                  | RESERVED   |  |
| 702                  | RESERVED   |  |
| 703                  | RESERVED   |  |
| 704                  | RESERVED   |  |
| 705                  | RESERVED   |  |
| 706                  | RESERVED   |  |
| 707                  | RESERVED   |  |
| 708                  | RESERVED   |  |

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|----------------------|--|--|
| 709                  | RESERVED   |  |
| 710                  | RESERVED   |  |
| 711                  | RESERVED   |  |
| 712                  | RESERVED   |  |
| 713                  | RESERVED   |  |
|                      |  |  |
| <b>800</b>           | <b>PORTABLE POWER TOOLS</b>  |  |
| 801                  | Use a portable belt sander.  |  |
| 802                  | Use a finish sander(s).  |  |
| 803                  | Use a drill.   |  |
| 804                  | Use a router.  |  |
| 805                  | Use a circular saw.  |  |
| 806                  | Use a jig-saw.   |  |
| 807                  | Use a laminate trimmer.  |  |
| 808                  | Use a biscuit jointer.   |  |
| 809                  | Use brad and finish nail pneumatic fastening tools.  |  |
| 810                  | Use a miter saw or a compound miter saw.   |  |
| 811                  | Follow rules for portable electric hand tool safety.   |  |
|                      |  |  |
| <b>900</b>           | <b>MACHINING AND RELATED OPERATIONS</b>  |  |
| 901                  | Glue boards edge to edge.  |  |
| 902                  | RESERVED   |  |
| 903                  | RESERVED   |  |
| 904                  | Calculate and construct a drawer.  |  |
| 905                  | Calculate and construct a face frame.  |  |
| 906                  | Calculate and construct a raised panel door.   |  |
| 907                  | Calculate and construct a wall cabinet.  |  |
| 908                  | Fabricate moldings.  |  |
|                      |  |  |
| <b>1000</b>          | <b>CUTTING AND SHAPING COMMON WOOD JOINTS</b>  |  |
| 1001                 | Square up solid stock.   |  |
| 1002                 | Construct dado and groove joints.  |  |
| 1003                 | Construct dowel joints.  |  |
| 1004                 | Construct miter joints.  |  |
| 1005                 | Construct mortise and tenon joints.  |  |

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| 1006                 | Construct rabbet joints.   |  |
| 1007                 | Construct dove tail joints.  |  |
| 1008                 | Construct half-lap joints.   |  |
| 1009                 | RESERVED   |  |
| 1010                 | RESERVED   |  |
| 1011                 | RESERVED   |  |
|                      |  |  |
| <b>1100</b>          | <b>GLUES AND ADHESIVES</b>   |  |
| 1101                 | Follow safety rules for working with adhesives.  |  |
| 1102                 | Identify various glues and adhesives.  |  |
| 1103                 | Apply glues and adhesives.   |  |
| 1104                 | RESERVED   |  |
| 1105                 | RESERVED   |  |
|                      |  |  |
| <b>1200</b>          | <b>PLASTIC LAMINATES</b>   |  |
| 1201                 | Cut plastic laminates to size.   |  |
| 1202                 | Trim edges.  |  |
| 1203                 | Apply adhesives.   |  |
| 1204                 | Apply laminate to core stocks.   |  |
| 1205                 | Cap edges of substrates with laminates.  |  |
| 1206                 | Construct a laminate joint.  |  |
| 1207                 | Clean laminated plastics.  |  |
|                      |  |  |
| <b>1300</b>          | <b>PROCEDURES FOR ASSEMBLY</b>   |  |
| 1301                 | Use bar clamps.  |  |
| 1302                 | Use "C" clamps.  |  |
| 1303                 | Use spring clamps.   |  |
| 1304                 | Use parallel clamps.   |  |
| 1305                 | Use frame clamps.  |  |
| 1306                 | Use miscellaneous clamps.  |  |
| 1307                 | Assemble casework using clamping devices.  |  |
| 1308                 | Reinforce joints with blocks.  |  |
| 1309                 | Fasten parts with screws.  |  |
| 1310                 | Attach moldings.   |  |
| 1311                 | Use tight-joint fasteners.   |  |

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| <b>1400</b>          | <b>HARDWARE INSTALLATION</b>   |  |
| 1401                 | Lay out and measure for proper mounting of hardware.   |  |
| 1402                 | Cut a “gain” for a hinge.  |  |
| 1403                 | Install drawer slides.   |  |
| 1404                 | Install knobs and pulls.   |  |
| 1405                 | Install various types of catches.  |  |
| 1406                 | RESERVED   |  |
| 1407                 | Install various types of hinges.   |  |
|                      |  |  |
| <b>1500</b>          | <b>CNC (Computer Numerical Controlled) MACHINE</b>   |  |
| 1501                 | Follow safety rules for operating CNC equipment.   |  |
| 1502                 | Establish a tool path for the cutter.  |  |
| 1503                 | Install and remove cutters.  |  |
| 1504                 | Use of CNC design & machine software.  |  |
|                      |  |  |
| <b>1600</b>          | <b>FINISHING PROCEDURES</b>  |  |
| 1601                 | Remove excess glue.  |  |
| 1602                 | Apply wood filler to nail holes.   |  |
| 1603                 | Sand and abrade with various grits of abrasive papers.   |  |
| 1604                 | Clean a wood surface with a tack rag.  |  |
| 1605                 | Clean the environment surrounding a product prior to applying a finish.  |  |
| 1606                 | Inspect surfaces of products prior to finishing.   |  |
| 1607                 | Apply sanding sealers.   |  |
| 1608                 | Apply water based finishes.  |  |
| 1609                 | Spray lacquer-base and polyurethane finishes.  |  |
| 1610                 | Apply stains with a brush or a cloth.  |  |
| 1611                 | Clean brushes after applying a finish.   |  |
| 1612                 | Follow safety procedures when using spray equipment.   |  |
| 1613                 | Maintain a spray gun.  |  |
| 1614                 | Apply finish using a spray gun.  |  |
| 1615                 | Troubleshoot and correct problems that occur in the finishing process.   |  |
|                      |  |  |
| <b>1700</b>          | <b>INSTALLATION</b>  |  |
| 1701                 | Install a wall cabinet.  |  |

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| 1702                 | Install a base cabinet.  |   |
| 1703                 | Install a countertop.  |   |
| 1704                 | Install moldings.  |   |