# Competency Task List – Secondary Component

# Carpentry/Carpenter CIP 46.0201

# High School Graduation Years 2022, 2023, 2024

## 100 Safety/Occupational Orientation

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| --- | --- | --- | --- |
| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 101 | Follow basic, lab, and construction industry safety practices and procedures. |   |   |
| 102 | RESERVED |  |  |
| 103 | RESERVED |  |  |
| 104 | Follow procedures in Safety Data Sheets (SDS) system. |  |  |
| 105 | Identify and follow all OSHA safety standards at the construction site. |  |  |
| 106 | RESERVED |  |  |
| 107 | RESERVED |  |  |

## 200 Hand Tools

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| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 201 | Use and maintain small hand tools. |   |   |
| 202 | Use and maintain sawing tools. |   |   |
| 203 | Use and maintain fastening tools. |   |   |
| 204 | Use and maintain measuring tools. |   |   |
| 205 | Use and maintain cutting tools. |   |   |
| 206 | RESERVED |   |   |
| 207 | Use and maintain ladders. |  |  |
| 208 | Use and maintain finishing tools. |  |  |
| 209 | RESERVED |  |  |
| 210 | Construct scaffolding. |  |  |

## 300 Power Tools

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| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 301 | Use and maintain stationary electric power tools. |  |   |
| 302 | Use and maintain pneumatic/fastening tool systems. |  |   |
| 303 | Use and maintain portable electric power tools. |  |  |
| 304 | RESERVED |  |  |
| 305 | RESERVED |  |  |

## 400 Blueprints Reading

|  |  |  |  |
| --- | --- | --- | --- |
| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 401 | Interpret blueprints. |  |   |
| 402 | Interpret and comprehend standard symbols and abbreviations. |  |   |
| 403 | Interpret building specifications. |  |  |
| 404 | Interpret a plot plan. |  |  |
| 405 | Interpret a foundation plan. |  |  |
| 406 | Interpret elevation plans. |  |  |
| 407 | Interpret details and section views. |  |  |
| 408 | Interpret floor, wall, and roof framing plans. |  |  |
| 409 | Interpret building and zoning codes. |  |  |
| 410 | Interpret Americans with Disabilities Act (ADA) regulations. |  |  |

## 500 Site Preparation and Layout

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| --- | --- | --- | --- |
| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 501 | Determine factors needed to be considered before the start of a building project. |   |   |
| 502 | Acquire a building permit. |   |   |
| 503 | Use PA One Call System. |  |  |
| 504 | Establish elevations and grades from benchmarks using leveling instruments.  |  |  |
| 505 | Stake out a building foundation using the Pythagorean Theorem. |  |  |
| 506 | Layout and construct batter boards. |  |  |

## 600 Footings and Foundations

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| --- | --- | --- | --- |
| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 601 | Identify footer and foundation materials. |   |   |
| 602 | Use leveling instruments. |   |   |
| 603 | Establish footer lines and elevations. |   |   |
| 604 | RESERVED |   |   |
| 605 | Layout and construct forms for footers. |  |  |
| 606 | Layout foundations. |  |  |
| 607 | Layout and construct forms for concrete slabs. |  |  |
| 608 | Install reinforcing materials.  |  |  |
| 609 | Construct vertical and horizontal formwork. |  |  |

## 700 Framing – Floor Construction

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| --- | --- | --- | --- |
| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 701 | RESERVED |   |   |
| 702 | RESERVED |  |  |
| 703 | Layout and install sill plates. |  |  |
| 704 | Layout and install floor joists, including manufactured floor joists. |  |  |
| 705 | Layout and install joists for a cantilever floor. |  |  |
| 706 | Construct and install cross and solid bridging. |  |  |
| 707 | Layout and install sub-flooring. |  |  |
| 708 | Layout and construct floor openings. |  |  |

## 800 Framing – Wall Construction

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| --- | --- | --- | --- |
| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 801 | RESERVED |   |   |
| 802 | Layout and construct a wall. |   |   |
| 803 | RESERVED |   |   |
| 804 | Layout and construct door openings. |  |  |
| 805 | Layout and construct window openings. |  |  |
| 806 | Construct a load bearing header. |  |  |
| 807 | Layout and install sheathing. |  |  |
| 808 | Plumb, align and brace walls. |  |  |
| 809 | Layout and install metal studs. |  |  |

## 900 Framing – Roof Construction

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| --- | --- | --- | --- |
| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 901 | RESERVED |   |   |
| 902 | RESERVED |   |   |
| 903 | Layout and install a ridgeboard. |   |   |
| 904 | Layout and install common rafters. |  |  |
| 905 | RESERVED |  |  |
| 906 | Layout and install roof trusses. |  |  |
| 907 | Layout and install roof sheathing. |  |  |
| 908 | Layout and construct roof openings. |  |  |
| 909 | RESERVED |  |  |
| 910 | RESERVED |  |  |
| 911 | Layout and install roofing materials. |  |  |
| 912 | Layout and install capping. |  |  |

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## 1000 Exterior Finish

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| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 1001 | RESERVED |   |   |
| 1002 | RESERVED |   |   |
| 1003 | Install house wrap. |   |   |
| 1004 | Install exterior doors. |  |  |
| 1005 | Install windows. |  |  |
| 1006 | Layout and install siding. |  |  |
| 1007 | Layout and install soffits and facias. |  |  |
| 1008 | Layout and install gutters and downspouts. |  |  |
| 1009 | Layout and install exterior deck, stair, and railing systems. |  |  |

## 1100 Interior Finish

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| --- | --- | --- | --- |
| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 1101 | RESERVED |   |   |
| 1102 | RESERVED |   |   |
| 1103 | Layout, install and finish drywall. |   |   |
| 1104 | Layout and install suspended and tile ceilings. |  |  |
| 1105 | Layout and install interior doors. |  |  |
| 1106 | Layout and install door trim, casings, and hardware. |  |  |
| 1107 | Layout and install window trim, casings, and hardware. |  |  |
| 1108 | Layout and install baseboard and molding. |  |  |
| 1109 | Layout and install flooring materials.  |  |  |
| 1110 | Layout and install interior stair systems. |  |  |
| 1111 | Install various types of insulation. |  |  |

## 1200 Estimation

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| Item | Task  | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 1201 | Estimate the amount and cost of bricks and blocks needed to complete a given task.  |   |   |
| 1202 | Estimate the amount and cost of concrete needed to complete a given task.  |   |   |
| 1203 | Estimate the amount and cost of materials to finish an exterior wall. |   |   |
| 1204 | Estimate the amount and cost of materials to finish an interior wall. |  |  |
| 1205 | Estimate the amount and cost of materials to construct a finished floor. |  |  |
| 1206 | Estimate the amount and cost of materials to construct a finished roof.  |  |  |
| 1207 | Estimate the amount and cost of materials to install siding for a house. |  |  |

1 Student Demonstrated Entry-Level Industry Proficiency as Indicated by (X)

Secondary CTE Instructor Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Student Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_