# Competency Task List – Secondary Component

# Mason/Masonry CIP 46.0101

# High School Graduation Years 2020, 2021, 2022

## 100 Masonry Training Lab

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 101 | Identify masonry hand and lab tools and equipment. |  |  |

## 200 Safety Practices

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 201 | Use personal protection equipment. |  |  | |
| 202 | Use and care for masonry hand tools. |  |  | |
| 203 | Use and care for a mortar mixer. |  |  | |
| 204 | Erect and dismantle steel tubular scaffolding within OSHA guidelines. |  |  | |
| 205 | Place material and stock scaffolding properly. |  |  | |
| 206 | Interpret safety data sheets (SDS) information. |  |  | |

## 300 Blueprints

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 301 | Identify types of blueprint plans. |  |  | |
| 302 | Read and Interpret blueprint plans. |  |  | |

## 400 Masonry Hand Tools

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 401 | Read and use a modular and spacing ruler. |  |  | |
| 402 | Mark and use a masonry guide or corner pole. |  |  | |
| 403 | Secure mason's line to line blocks, pins, and line stretchers. |  |  | |
| 404 | Set a trig properly. |  |  | |
| 405 | Use a hammer and chisel to cut block and brick. |  |  | |
| 406 | RESERVED |  |  | |
| 407 | Use masonry jointers to finish mortar joints. |  |  | |
| 408 | Identify the various cutting blades for a masonry saw. |  |  | |

## 500 Building Site

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 501 | Lay a building out using a transit. |  |  | |
| 502 | Square a building using the 3-4-5 Pythagorean Theorem. |  |  | |

## 600 Power Tools

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 601 | Operate a portable masonry gas cut-off saw. |  |  | |
| 602 | Operate a mortar mixer. |  |  | |
| 603 | Operate a stationary or portable masonry saw. |  |  | |
| 604 | Operate a hammer drill. |  |  | |

## 700 Masonry Fasteners

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 701 | Use different types of masonry fasteners and reinforcements. |  |  | |

## 800 Bricklaying Techniques

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 801 | Identify brick types and bonds. |  |  | |
| 802 | Lay out proper dry bond of a brick wall. |  |  | |
| 803 | Lay brick to the line. |  |  | |
| 804 | Install window and door openings (jambs) in brick walls. |  |  | |
| 805 | Install flashing for windows and doors. |  |  | |
| 806 | Install weep holes/vents. |  |  | |
| 807 | RESERVED |  |  | |
| 808 | Install a soldier course. |  |  | |
| 809 | Lay a brick and block composite wall. |  |  | |
| 810 | Build brick columns. |  |  | |
| 811 | Construct a brick veneer wall. |  |  | |
| 812 | Discuss a brick cavity wall. |  |  | |
| 813 | Corbel a brick wall. |  |  | |
| 814 | Clean a brick wall. |  |  | |
| 815 | Lay a course of rowlocks. |  |  | |
| 816 | Lay a course of headers. |  |  | |
| 817 | Construct a brick jamb lead. |  |  | |
| 818 | Construct a 4" brick inside corner. |  |  | |
| 819 | Construct a 4" brick outside corner. |  |  | |
| 820 | Perform trowel techniques for brick. |  |  | |

## 900 Block Laying Techniques

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 901 | Discuss various block types and bonds. |  |  | |
| 902 | Lay block to the line. |  |  | |
| 903 | Construct a brick ledge using various size block. |  |  | |
| 904 | Discuss a control joint. |  |  | |
| 905 | Install window and door openings in block walls. |  |  | |
| 906 | Set lintels. |  |  | |
| 907 | Construct block piers. |  |  | |
| 908 | Clean a block wall. |  |  | |
| 909 | Parget a block wall. |  |  | |
| 910 | Construct a jamb block lead. |  |  | |
| 911 | Construct a corner block lead. |  |  | |
| 912 | Perform trowel techniques for block. |  |  | |

## 1000 Mortar

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 1001 | Describe various types of mortars and their characteristics. |  |  | |
| 1002 | Discuss and mix mortar by hand. |  |  | |
| 1003 | RESERVED |  |  | |
| 1004 | Temper mortar. |  |  | |
| 1005 | RESERVED |  |  | |

## 1100 Chimneys and Fireplaces

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 1101 | Identify parts of a chimney and fireplace. |  |  | |
| 1102 | Discuss fireplace construction. |  |  | |
| 1103 | Construct a brick chimney. |  |  | |
| 1104 | Construct a block chimney. |  |  | |
| 1105 | Discuss flashing methods where the chimney meets the roof. |  |  | |
| 1106 | RESERVED |  |  | |
| 1107 | RESERVED |  |  | |

## 1200 Arch Construction

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 1201 | Discuss arch terminology. |  |  | |
| 1202 | Identify types of arches. |  |  | |
| 1203 | Construct an arch. |  |  | |
| 1204 | RESERVED |  |  | |

## 1300 Masonry Estimation

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| Item | Task | (X) Indicates Proficiency 1 | Secondary Course Crosswalk |
| 1301 | Estimate mortar, number of units, and material costs for brick work. |  |  | |
| 1302 | Estimate mortar, number of units, and material costs for block work. |  |  | |
| 1303 | Estimate the area, volume, and cost of concrete. |  |  | |

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

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

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