

Competency Task List – Secondary Component

Mason/Masonry CIP 46.0101

High School Graduation Years 2020, 2021, 2022

100 Masonry Training Lab

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

200 Safety Practices

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

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

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

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

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

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

800 Bricklaying Techniques

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

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	Parge a block wall.		
910	Construct a jamb block lead.		
911	Construct a corner block lead.		
912	Perform trowel techniques for block.		

1000 Mortar

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

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

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

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 _____