



# SEC – Masonry Blueprints

This document contains the blueprints for the concentration areas in secondary Masonry.

Course Code(s)	Test Code	Program Name	Supplemental Materials/Notes
993130, 993131, 993132	10242Y2-2012	Masonry	

Curriculum	Perkins Assessment 2016-17		Teacher Evaluation Pilot 2016-17			
	Y1 Post-Test	Y2 Post-Test	Y1 Baseline	Y1 Post-Test	Y2 Baseline	Y2 Post-Test
Masonry	See Construction Core*	MS-CPAS2* and NCCER*	NA*	NA*	NA*	NA*

For more information concerning NCCER testing: <http://www.nccer.org/academic>

\* These assessments are subject to change based on funding and policy changes/updates. Information for test coordinators will be disseminated on the ordering process for the national certification by the Research and Curriculum Unit at Mississippi State University.



# MS-CPAS2 Blueprint Summary

**Assessment:** Masonry  
**Test Code:** 10242Y2-2012  
**CIP Code:** 460101  
**Course Codes:** 993130, 993131, 993132  
**Type:** CP

The MS-CPAS2 Blueprint Summary indicates the number of assessment questions related to each unit on the assessment and indicates the relative emphasis placed on each unit. All of the listed competencies will appear on the assessment, but because of the length of the assessment, not every competency will be equally represented in the assessment.

The MS-CPAS2 Blueprint Summary includes a variety of information, which is explained below:

Terms and Definitions	
<b>Assessment:</b>	This signifies the name of the assessment, which corresponds with the name of the pathway or program.
<b>CIP Code:</b>	Developed by the U.S. Department of Education's National Center for Education Statistics (NCES), CIP codes are a federal coding system utilized for assessment and reporting of fields of study and program completions activity tracking.
<b>Test Code:</b>	A unique code that serves to numerically identify a specific assessment
<b>DOK Levels:</b>	Based on Webb's Depth of Knowledge (DOK), this signifies the assessment item difficulty factor to be expected in each unit. The three levels are as follows: <i>1 = Recall and Reproduction, 2 = Skills and Concepts, 3 = Short-term Strategic Thinking</i> <b>Some postsecondary programs will not use DOK levels until the next revision.</b>
<b>Instructional</b>	The total number of hours assigned to a unit per the pathway's curriculum
<b>Total Items:</b>	The total number of items assigned to each unit on the assessment. It is calculated as follows: <i>(Unit Instructional Hours / Total Instructional Hours) * Total Active Items</i>
<b>Active Items:</b>	The number of items on the assessment that will be graded
<b>Field-test Items:</b>	The number of items that are being field-tested, or piloted, to determine their eligibility for inclusion as an Active Item on future assessments. These items are not graded and, thus, will not impact the student's final score.
<b>Total Assessed Items:</b>	The total number of items on the given assessment. It is calculated as follows: <i>Active Items + Field-test Items</i>

For more information regarding this MS-CPAS2 Blueprint Summary, please contact the Mississippi Assessment Center by phone at 1.866.901.7433 or by e-mail at [helpdesk@rcu.msstate.edu](mailto:helpdesk@rcu.msstate.edu).



Assessment: <b>Masonry</b> Test Code: 10242Y2-2012 CIP Code: 460101 Total Hours: 170	DOK Level(s)			Instructional Hours	Total Items
	1	2	3		
<b>Unit 1: Not on CPAS</b>					
<b>Unit 2: Not on CPAS</b>					
<b>Unit 3: Not on CPAS</b>					
<b>Unit 4: Mortar and Grout</b>	1	2		25	12
1. Identify types, uses, and mixing procedures of mortar. 2. Identify types, uses, and mixing procedures of grout.					
<b>Unit 5: Measurements/Drawings/Specifications and Estimating</b>	1	2	3	35	16
1. Apply basic mathematics for masonry. 2. Identify and discuss drawings and specifications. 3. Estimate material for a masonry project.					
<b>Unit 6: Advanced Laying Techniques and Metal Work</b>	1	2	3	80	38
1. Explain the terms associated with the layout of a masonry wall. (Review) 2. Identify and explain different types of expansion joints and control joints. 3. Explain and perform basic bricklaying and block-laying techniques. 4. Explain arches, including semicircular arch and jack arch. 5. Describe the uses and installation of metal work in masonry. 6. Install hollow metal frames, sills, and lintels.					
<b>Unit 7: Constructing Techniques and Moisture Control</b>	1	2	3	30	14
1. Explain and demonstrate techniques for constructing masonry around windows, doors, and other openings. 2. Explain the requirements for wall bracing and demonstrate the techniques used to construct pilasters and other types of bracing. 3. Identify the various types of insulation used in conjunction with masonry construction and explain installation techniques. 4. Identify and demonstrate various types of moisture control used in masonry. 5. Construct corbeling in a double-wythe wall. 6. Join intersecting walls.					
<b>Active Items</b>					<b>80</b>
<b>Field-Test Items</b>					<b>20</b>
<b>TOTAL ASSESSED ITEMS</b>					<b>100</b>