

MS-CPAS2 Blueprint Summary

Assessment: Construction Engineering Technology
Test Code: 20226Y1-2016
CIP Code: 151001
Course Codes: N/A
Type: PS

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	
Assessment:	This signifies the name of the assessment, which corresponds with the name of the pathway or program.
CIP Code:	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.
Test Code:	A unique code that serves to numerically identify a specific assessment
DOK Levels:	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> Some postsecondary programs will not use DOK levels until the next revision.
Instructional Hours:	The total number of hours assigned to a unit per the pathway's curriculum
Total Items:	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>
Active Items:	The number of items on the assessment that will be graded
Field-test Items:	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.
Total Assessed Items:	The total number of items on the given assessment. It is calculated as follows: <i>Active Items + Field-test Items</i>
<p>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.</p>	



Assessment: Construction Engineering Technology	DOK Level(s)		Instructional Hours	Total Items
	1	2		
Test Code: 20226Y1-2016				
Total Hours: 12				
CON 1113 Survey of Modern Construction	1	2	3	10
1. Interpret the importance of the construction industry. 2. Recognize the major historical advancements in the construction industry. 3. Examine the influence of construction technology.				
CON 1213 Construction Materials	1	2	3	10
1. Describe how soil relates to construction. 2. Explain the properties, placement, and tests for concrete. 3. Compare the different properties and uses of wood as a building material. 4. Describe the uses of steel as a building component.				
CON 1223 Plans and Document Interpretation	1	2	3	10
1. Interpret construction prints. 2. Recognize construction plans as contract documents. 3. Interpret specifications.				
CON 1233 Construction Systems I	1	2	3	10
1. Explain the different types of residential, commercial, and heavy construction. 2. Identify various types of foundations. 3. Identify different types of wall and roofing systems. 4. Describe money as a function of capital. 5. Describe machinery production.				
Active Items				40
Field-Test Items				10
TOTAL ASSESSED ITEMS				50

MS-CPAS2 Blueprint Summary

Assessment: Construction Engineering Technology
Test Code: 20226Y2-2016
CIP Code: 151001
Course Codes: N/A
Type: PS

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Assessment: Construction Engineering Technology	DOK Level(s)		Instructional Hours	Total Items
Test Code: 20226Y2-2016				
Total Hours: 12				
CON 2113 Construction Job Site Management	1	2	3	10
1. Describe the factors to be considered by reviewing contract documents. 2. Explain how to sequence job functions using manual and scheduling software processes.				
CON 2123 Construction Cost Estimation	1	2	3	10
1. Examine the unique role of construction in today's business and industry. 2. Explain the overhead costs. 3. Explain direct costs of materials, labor, and equipment of a contract. 4. Develop a simulated construction bid.				
CON 2313 Construction Layout	1	2	3	10
1. Identify all phases of the layout of a structure. 2. Demonstrate use of a total station and auto level. 3. Demonstrate the use of the GPS Rover system.				
CON 2413 Construction Safety Standards	1	2	3	10
1. Examine basic national trenching laws. 2. Develop a plan to meet OSHA standards. 3. Develop a safety policy. 4. Not on MS-CPAS2. 5. Demonstrate the understanding of crane safety.				
Active Items				40
Field-Test Items				10
TOTAL ASSESSED ITEMS				50