

SEC – Information Technology Blueprints

This document contains the blueprints for the concentration areas in secondary Information Technology.

Course Code(s)	Test Code	Program Name	Supplemental Materials/Notes
992208, 992209, 992206	11522N1-2016	Information Technology	www.certiport.com
992210, 992211, 992207	11522N2-2016	Information Technology	http://www.microsoft.com/learning/en-us/exam-98-366.aspx

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
Information Technology	National Certification*	National Certification*	NA*	NA*	NA*	NA*

* 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: Information Technology
Test Code: 11522N1-2016
CIP Code: 110101
Course Codes: 992208, 992209, 992206
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	
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	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>

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.



Assessment: Information Technology Y1 Test Code: 11522Y1-2016 CIP Code: 110101 Total Hours: 200	DOK Level(s)		Instructional Hours	Total Items
	1	2		
Unit 2: Software	1	2	50	20
1. Compare and contrast commonly used operating systems and their functions and features. 2. Identify common software applications and the purpose of each. 3. Demonstrate software management best practices. 4. Define alternative technologies and their purposes.				
Unit 3: Hardware	1		45	18
1. Identify internal computer components and the purpose of each. 2. Compare and contrast common computer connectors. 3. Identify basic wired and wireless peripherals and the purpose of each. 4. Mobile computing services.				
Unit 4: Security	1	2	30	12
1. Define basic security threats. 2. Define security best practices. 3. Demonstrate web browser security. 4. Specify browser configuration.				
Unit 5: Small Office and Home (SOHO) Networking	1	2	30	12
1. Discuss the advantages of networking. 2. Set up and configure a basic SOHO router. 3. Differentiate between various Internet connections. 4. Discuss network file sharing. 5. Discuss network file storage. 6. Discuss printing.				
Unit 6: Basic IT Literacy	1	2	45	18
1. Set up a basic workstation. 2. Demonstrate uses of an operating system. 3. Perform troubleshooting tasks. 4. Perform backup operations. 5. Explore environmental and safety issues.				
Active Items				80
Field-Test Items				20
TOTAL ASSESSED ITEMS				100

MS-CPAS2 Blueprint Summary

Assessment: Information Technology Y2
Test Code: 11522N2-2016
CIP Code: 110101
Course Codes: 992207, 992210, 992211
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	
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:
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>

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Assessment: Information Technology Y2	DOK Level(s)		Instructional Hours	Total Items
Test Code: 11522N2-2016				
CIP Code: 110101				
Total Hours: 200				
Unit 7: Network Infrastructures		2	60	24
1. Differentiate between the concepts of Internet, intranet, and extranet. 2. Classify networks based on size. 3. Examine wireless networking. 4. Examine network topologies.				
Unit 8: Network Protocols and Services		2	70	28
1. Understand network models. 2. Describe Internet protocols. 3. Describe network services.				
Unit 9: Network Hardware	1	2	70	28
1. Examine network hardware, including layers 1, 2, and 3 devices. 2. Recognize network media types.				
Active Items				80
Field-Test Items				20
TOTAL ASSESSED ITEMS				100