

MS-CPAS Blueprint Summary

Assessment:	Plumbing Technology
Test Code:	20282Y1-2012
CIP Code:	460503
Course Codes:	
Type:	PS

The MS-CPAS 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-CPAS 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>

For more information regarding this MS-CPAS Blueprint Summary, please contact the Research and Curriculum Unit by phone at 1.866.901.7433 or by e-mail at helpdesk@rcu.msstate.edu.

Assessment: Plumbing Technology Test Code: 20282Y1-2012 CIP Code: 460503 Total Hours: 20.0	DOK Level(s)			Instructional Hours	Total Items
	1	2	3		
PCT 1333: Blueprint Reading for Plumbing	1	2		3	6
1. Identify and interpret various symbols, notes, and terms. 2. Identify, interpret, and locate details on mechanical, plumbing and structural blueprints.					
PCT 1443: Piping Level/Transit	1	2		3	6
1. Identify and set up a level and/or transit. 2. Measure, record, and lay out a soil pipe.					
PCT 1513: Drainage and Sewer Systems	1	2	3	3	6
1. Identify and explain safety in drainage and sewer systems. 2. Identify various systems used in drainage and sewer systems. 3. Install various types of soil and waste pipes. 4. Identify various types of sewers.					
PCT 1612: Heating Devices	1	2	3	2	4
1. Identify and perform various functions on a hot water system. 2. Identify, install, troubleshoot, and perform various functions on heating systems. 3. Explain and discuss various functions of a forced heat system.					
PCT 1622: Gas Piping	1	2	3	2	4
1. Identify and explain the various codes pertaining to gas and plumbing installation. 2. Identify appliances and materials for gas and plumbing installations. 3. Explain, size, and install a gas system as per the principles of the British Thermal Unit					
PCT 1712: Domestic Systems	1	2	3	2	4
1. Estimate and install a hot water system. 2. Identify and install a potable cold water system.					
PCT 1732: Backflow Cross Connection	1	2		2	4
1. Define and explain backflow requirements. 2. Discuss, lay out, and test backflow devices.					
PCT 1743: Advanced Plumbing Lab	1	2	3	3	6
1. Identify and explain various commercial components and fixtures. 2. Install various commercial components and fixtures according to required code(s). 3. Describe and design a complete basic sewage treatment operation.					
Active Items					40
Field-Test Items					10
TOTAL ASSESSED ITEMS					50

MS-CPAS Blueprint Summary

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Course Codes:	
Type:	PS

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Assessment: Plumbing Technology Test Code: 20282Y2-2012 CIP Code: 460503 Total Hours: 8.0	DOK Level(s)			Instructional Hours	Total Items
	1	2	3		
PCT 1213: Tacking, Brazing, and Burning	1	2	3	3	15
1. Demonstrate the safe layout and use of the electric arc machine and the oxyacetylene torch. 2. Tack weld pipes in different positions. 3. Prepare, solder, braze, and test various joints.					
PCT 1323: Sketching	1	2		3	15
1. Identify, explain, and sketch various piping objects. 2. Discuss and demonstrate the use of various scales used on piping drawings. 3. Discuss and demonstrate freehand lettering. 4. Sketch various pipes and piping drawings.					
PCT 1812: Rigging and Signaling	1	2		2	10
1. Explain and identify safe signaling, rigging, and equipment. 2. Describe and apply procedures and equipment for rigging and lifting.					
Active Items					40
Field-Test Items					10
TOTAL ASSESSED ITEMS					50