MS-CPAS Blueprint Summary

Assessment:	**Commercial and Residential Maintenance**
Test Code:	**20222Y0-2011**
CIP Code:	**460401**
Course Codes:	
Type:	**PS**

The MS-CPAS Blueprint Summary indicates the number of assessment questions related to each unit on the assessment and 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:

Term and Definition	
Assessment:	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 for reporting and tracking fields of study and program completions activity.
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's difficulty factor to be expected in each unit. The three levels are as follows: *1 = Recall and Reproduction, 2 = Skills and Concepts, 3 = Short-term Strategic Thinking* **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: *(Unit Instructional Hours / Total Instructional Hours) * Total Active Items*
Active Items:	The number of graded items on the assessment.
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: *Active Items + Field-test Items*

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:	Commercial and Residential Maintenance	DOK Level(s)			Instructional Hours	Total Items
Test Code: 20222Y0-2011 **CIP Code:** 460401 **Total Hours:** 25						
CRM 1134: Mathematics and Blueprint Interpretation		1	2		4	6
1. Apply the basic principles of mathematics.						
2. Interpret symbols, abbreviations, alphabet of lines, types of views, and title blocks.						
CRM 1214: Carpentry		1	2		4	6
1. Demonstrate safety terms and practices.						
2. Explain and apply basic building codes.						
3. Identify and demonstrate the safe use of hand tools, power tools, and stationary equipment.						
4. Construct a project.						
5. Install and/or repair building components.						
CRM 1313: Masonry		1	2		3	5
1. Define terms and rules for safety.						
2. Apply procedures for laying blocks and bricks.						
3. Perform repair procedures.						
4. Perform procedures for laying and repairing ceramic tile.						
CRM 1414: Plumbing		1	2		4	6
1. Discuss and apply general safety rules.						
2. Discuss terms, materials, and components.						
3. Identify and apply basic regional and local plumbing codes.						
4. Apply basic procedures used in copper tubing.						
5. Apply basic procedures used in polyvinyl chloride (PVC) pipe.						
6. Apply basic procedures used in steel pipe.						
7. Troubleshoot, repair, and/or install basic water and drainage systems and fixtures.						
CRM 1514: Electrical		1	2		4	6
1.Describe basic electrical safety practices.						
2. Explain and apply basic regional and local electrical codes.						
3. Install electrical wiring.						
4. Install and troubleshoot electrical wiring components.						
CRM 1616: Heating, Ventilating, and Air-Conditioning (HVAC)		1	2		6	11
1. Safely use hand tools commonly found in the heating and air-conditioning industry.						
2. Explain and apply basic heating and air-conditioning codes.						
3. Explain/apply the basic principles in the use of gauges.						
4. Charge a refrigeration system.						
5. Provide basic recovery system service operations.						
6. Locate leaks in a refrigerant system.						
7. Identify and perform basic maintenance repairs on a heating system.						
8. Explain and discuss the EPA Clean Air Act, Section 608.						
9. Explain basic wiring of HVAC units.						
				Active Items		40
				Field-Test Items		10
				TOTAL ASSESSED ITEMS		50