



# MS-CPAS2 Blueprint Summary

**Assessment:** Electrical Technology  
**Test Code:** 21336Y1-2014  
**CIP Code:** 460302  
**Course Codes:**  
**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	
<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 Hours:</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: Electrical Technology Test Code: 21336Y1-2014 CIP Code: 460302 Total Hours: 19	DOK Level(s)			Instructional Hours	Total Items
	1	2	3		
<b>ELT 1123: Commercial Wiring</b>	1	2		3	7
1) Module 26106-11--Device Boxes					
2) Module 26107-11--Hand Bending					
3) Module 26108-11--Raceways and Fittings					
4) Module 26109-11--Conductors and Cables					
5) Additional Outcomes					
<b>ELT 1144: AC and DC Circuits for Electrical Technology</b>	1	2		4	9
1) Module 26104-11--Electrical Theory					
2) Module 26112-11--Electrical Test Equipment					
3) Module 26103-11--Introduction to Electrical Circuits					
4) Module 26201-11-- Alternating Current					
5) Additional Outcomes					
<b>ELT 1213 Electrical Power</b>	1	2		3	6
1. Discuss safety and environmental protection concerns associated with electrical power equipment.					
2. Wire single-phase electrical components.					
3. Wire three-phase electrical components.					
4) Module 26104-11--Electrical Theory					
<b>ELT 1253: Branch Circuit and Service Entrance Calculations</b>	1	2		3	6
1) Module 26105-11-- Introduction to the National Electrical Code®					
2) Additional Outcomes					
<b>ELT 1263: Electrical Drawings and Schematics</b>	1	2		3	6
1) Module 26110-11--Basic Electrical Construction Drawings					
2) Additional Outcomes					
<b>ELT 1413: Motor Control Systems</b>	1	2		3	6
1) Module 26211-11--Control Systems and Fundamental Concepts					
2) Additional Outcomes					
<b>Active Items</b>					<b>40</b>
<b>Field-Test Items</b>					<b>10</b>
<b>TOTAL ASSESSED ITEMS</b>					<b>50</b>



# MS-CPAS2 Blueprint Summary

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**CIP Code:** 460302  
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	1	2	3		
<b>ELT 2424: Solid State Motor Control</b>	1	2		4	15
1. Module 26202-11--Motors: Theory and Application					
2. Additional Learning Outcomes					
<b>ELT 2114 Equipment Maintenance, Troubleshooting, and Repair</b>	1	2		4	14
1. Discuss and apply proper safety procedures regarding maintenance, troubleshooting, and repair of equipment.					
2. Perform preventive maintenance on equipment.					
3. Troubleshoot and repair equipment.					
4. Estimate expenses for a given project.					
<b>ELT 2613: Programmable Logic Controllers</b>	1	2		3	11
1. Explain principles of PLCs.					
2. Identify different types of PLC hardware.					
3. Explain numbering systems, encoding/decoding, and logical operations.					
4. Program all types of internal and discrete instructions.					
5. Troubleshoot and maintain different programmable controllers systems.					
<b>Active Items</b>					<b>40</b>
<b>Field-Test Items</b>					<b>10</b>
<b>TOTAL ASSESSED ITEMS</b>					<b>50</b>