

# SEC – Collision Repair Technician Blueprints

This document contains the blueprints for the concentration areas  
in secondary Collision Repair Technician.

Course Code(s)	Test Code	Program Name	Supplemental Materials/Notes
997100, 997102, 997103	11610Y1-2015	Collision Repair Technician	
997101, 997104, 997105	11610Y2-2015	Collision Repair Technician	

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
Collision Repair Technician	MS-CPAS2*	MS-CPAS2*	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:** Collision Repair Technician  
**Test Code:** 11610Y1-2015  
**CIP Code:** 470603  
**Course Codes:** 997100, 997102, 997103  
**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	
<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</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: Collision Repair Technician					
Test Code: 11610Y1-2015					
CIP Code: 470603				DOK	Instructional
Total Hours: 200				Level(s)	Hours
Total Items					Total
Total Items					Items
<b>Unit 1 Introduction, Safety, and Student Organization</b>	1	2		10	4
1 and 3 are not on CPAS					
2. Describe employment opportunities and responsibilities					
<b>Unit 2 Fundamentals of Collision Repair</b>	1	2		55	22
1 is not on CPAS					
2. Introduce, describe, and express employment opportunities and responsibilities of the collision repair industry.					
3. Investigate and replicate leadership skills and personal development.					
4. Model general safety rules for working in a shop/lab and an industry setting.					
5. Interpret and apply service specifications and information.					
6. Demonstrate measurement practices used in the automotive service.					
<b>Unit 3 Basic Mechanical and Electrical Components</b>	1	2		25	10
1. Identify, evaluate, and practice suspension and steering components and systems.					
2. Practice concepts and procedures related to electrical/electronic systems.					
3. Diagnose and apply practices related to brakes and braking systems					
4. Discuss and apply practices related to heating and air conditioning.					
5. Identify and discuss cooling systems					
6. Diagnose and replace active restraint systems procedures and practices.					
<b>Unit 4 Basic Non-Structural Analysis and Damage Repair</b>	1	2		25	10
1. Inspect, analyze, perform, and evaluate procedures and skills pertaining to non-structural analysis and damage repair					
<b>Unit 5 Basic Structural Analysis and Damage Repair</b>	1	2		25	10
1. Inspect, apply, and perform skills and techniques related to vehicles pertaining to structural and damage repair.					
2. Identify and analyze the proper metal welding procedures to complete a repair according to manufacturer's specifications					
<b>Unit 6 Introduction to Painting and Refinishing</b>	1	2		60	24
1. Explain procedures as they pertain to introductory painting and refinishing.					
<b>Active Items</b>					<b>80</b>
<b>Field-Test Items</b>					<b>20</b>
<b>TOTAL ASSESSED ITEMS</b>					<b>100</b>



## MS-CPAS2 Blueprint Summary

**Assessment:** Collision Repair Technician  
**Test Code:** 11610Y2-2015  
**CIP Code:** 470603  
**Course Codes:** 997101, 997104, 997105  
**Type:** CP

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<b>Instructional Hours:</b>	The total number of hours assigned to a unit per the pathway's curriculum
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Assessment: <b>Collision Repair Technician</b> Test Code: 11610Y2-2015 CIP Code: 470603 Total Hours: 200	DOK Level(s)			Instructional Hours	Total Items
	1	2	3		
<b>Unit 8: Safety (Review), Employability Skills, and Business Skills</b>	1	2		10	4
1. Not on CPAS 2. Demonstrate proper use and care for laboratory equipment related to the collision industry.					
<b>Unit 9: Advanced Non-Structural Analysis and Damage Repair</b>	1	2		65	26
1. Inspect, analyze, perform, and evaluate procedures and skills pertaining to advanced non-structural analysis and damage repair					
<b>Unit 10: Advanced Structural Analysis and Damage Repair</b>	1	2		65	26
1. Inspect, analyze, perform, and evaluate procedures and skills pertaining to advanced structural analysis and damage repair.					
<b>Unit 11: Introduction to Advanced Painting and Refinishing</b>	1	2	3	60	24
1. Introduction and discuss procedures as they pertain to introductory skills of advanced painting and refinishing.					
<b>Unit 12: Not on CPAS</b>					
<b>Active Items</b>					<b>80</b>
<b>Field-Test Items</b>					<b>20</b>
<b>TOTAL ASSESSED ITEMS</b>					<b>100</b>