

SEC – Automotive Service Technician Blueprints

This document contains the blueprints for the concentration areas in secondary Automotive Service Technician.

Course Code(s)	Test Code	Program Name	Supplemental Materials/Notes			
997000, 997002,		Automotive Service				
997003	11611Y1-2014	Technician				
997001, 997004,		Automotive Service				
997005	11611N2-2014	Technician				

	Technical Skills Attainment 2021-2022				
Curriculum	Y1 Post-Test	Y2 Post-Test			
Automotive Service	MS-CPAS*	National Certification* Testing information can be found using the link below:			
Technician		Automobile Certification: Maintenance & Light Repair assessment (ASE)			

https://www.ase.com/entry-level/

* 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-CPAS Blueprint Summary

Assessment:	Automotive Service Technician
Test Code:	11611Y1-2014
CIP Code:	470604
Course Codes:	997000, 997002, 997003
Туре:	СР

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.

Terms and Definit	ons
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: 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	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 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: Active Items + Field Test Items

The MS-CPAS Blueprint Summary includes a variety of information, which is explained below:

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:	Automotive Service Technician					
Test Code:	11611Y1-2014					
CIP Code:	470604		DO	K	Instructional	Total
Total Hours:	200	L	evel	(s)	Hours	Items
Unit 1: Automot	ve Shop Operations	1	2	3	30	12
1-5 Not on MS-CPA	S					
6. Identify and des	cribe general safety rules, components of an automo	bile,	tool	s/eq	uipment, measure	ement
practices, and fa	steners for working in a shop/lab and industry.					
7. Identify and app	ly concepts regarding safety procedures and practic	es in a	and	arou	nd automotive op	erations.
8. Explore general	shop operations and safety.					
Unit 2: Engine Re	epair		2		60	24
 Identify and describe general vehicle information and repairs. Identify and describe the major systems and components of an automobile. Inspect, adjust, and/or repair cylinder head and valve train timing. Inspect, replace, and adjust lubrication and cooling systems. Inspect and perform general maintenance (lubrication, oils, and fluids). 						
Unit 3: Manual and Automotive Transmission 2 40					16	
1. Identify, inspect	, and perform general maintenance and repair of au	toma	tic tr	ansn	nissions, transaxle	es and
related compone	ents.					
2. Identify, inspect	and perform general maintenance and repair of Ma	nual	Driv	e Tra	ins, axles, transfe	r cases,
and related com						
	trical/Electronic Systems			3	70	28
. –	1. Explore general electrical/electronic systems and theories of operation.					
2. Apply concepts of battery systems by performing inspection, diagnosis, and repair, if needed.						
3. Apply concepts of starting systems by performing inspection, diagnosis, and repair, if needed.						
4. Apply concepts of	of charging systems by performing inspection, diagno	osis, a	and r	epai	r, if needed.	
Unit 5: Not teste	d on MS-CPAS					
Active Items					80	
Field Test Items					20	
		ТС			SESSED ITEMS	100