



MS-CPAS2 Blueprint Summary

Assessment: Automotive Machinist Technology
Test Code: 21606Y1-2015
CIP Code: NA
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	
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-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.



Assessment: Automotive Machinist Technology Test Code: 21606Y1-2015 CIP Code: NA Total Hours: 24	DOK Level(s)			Instructional Hours	Total Items
	1	2			
AUT 1116: Fundamentals for Automotive Machinists	1	2		6	10
1. Explain safety procedures used in automotive machinist industry. 2. Demonstrate precision measurements using machinist rule, calipers, micrometers, and gauges. 3. Demonstrate safe and proper use and storage of tools and equipment in a machinist shop. 4. Apply methods of identification and cleaning of parts.					
AUT 1216: Cylinder Head Service	1	2		6	10
1. Disassemble, inspect cylinder head for cracks and imperfections, clean, and identify all parts. 2. Resurface cylinder head to manufacturer's specifications. 3. Inspect and recondition valve seats, valve guides, and valve surfaces to manufacturer's specifications. 4. Complete assembly of the cylinder head according to manufacturer's specifications.					
AUT 1316: Cylinder Block Service	1	2		6	10
1. Inspect engine cylinders. 2. Refinish a crankshaft to manufacturer's specifications. 3. Resize connecting rods to manufacturer's specifications.					
AUT 1416: Engine Assembly	1	2		6	10
1. Apply methods of identification and cleaning of engine parts. 2. Assemble all engine components to manufacturer's specifications.					
Active Items					40
Field-Test Items					10
TOTAL ASSESSED ITEMS					50



Assessment: Automotive Machinist Technology Test Code: 21606Y2-2015 CIP Code: 470615 Total Hours: 10	DOK Level(s)			Instructional Hours	Total Items
	1	2	3		
AUT 1513: Parts and Labor	1	2		3	12
1. Arrange and price parts for inventory and distribution. 2. Organize a core recovery system.					
AUT 1613: Crankshaft Balancing and Advanced Crankshaft Grinding	1	2		3	12
1. Compute and assemble bob weights. 2. Measure and correct both dynamic and couple unbalance. 3. Measure stroke and index variation of all rod journals.					
AUT 1224 High Performance Heads	1	2		4	16
1. Perform cylinder head modifications to enhance air flow. 2. Customize valve shape to promote air flow. 3. Understand the effects of different valve angles. 4. Construct a power point presentation to document findings. (Not tested on MSCPAS)					
Active Items					40
Field-Test Items					10
TOTAL ASSESSED ITEMS					50