

Course Title: Building Construction Technology 2			
Course Number: 8720320			
NGSSS Benchmark	Content Focus	Number of Points Possible	Suggested Cognitive Complexity (per CPALMS)
Reporting Category 14.0 Analyze construction components, materials, hardware and characteristics--The student will be able to::			
14.01	14.01 Identify the components of various kinds of structures including slabs and foundations, interior and exterior walls, roofs and flooring systems	2	2 level 1
14.02	14.02 Identify the types of wall sections.	1	1 level 1
14.03	14.03 Identify the types and installation procedures of roof, wall and floor sheathing	1	1 level 1
14.04	Identify various roof supports.	1	1 level 1
Reporting category total		5	
Reporting Category 15.0 Demonstrate masonry skills--The student will be able to:			
15.02	15.02 Describe the factors that affect the consistency of mortar.	1	1 level 2
15.03	15.03 Identify the common ratios (M, N, S and O) of mortar mixtures.	1	1 level 1
15.12	15.12 Mix various types of stucco.	1	1 level 1
15.13	15.13 Mix various types of concrete, considering application and Pounds per Square Inch (PSI) strength.	1	1 level 3
Reporting category total		4	
Reporting Category 16.0 Erect, plumb and brace a simple concrete form with reinforcement--The student will be able to:			
16.01	16.01 Identify the properties of cement	1	1 level 1
16.03	16.03 Perform volume estimates for concrete quantity requirements	1	1 level 2
16.04	16.04 Identify types of concrete reinforcement materials and describe their uses.	2	1 level 2 1 level 3
16.05	16.05 Identify various types of footings and explain their uses.	1	1 level 3
Reporting category total		5	
Reporting Category 17.0 Place concrete--The student will be able to:			
17.01	17.01 Identify equipment used to transport and place concrete	1	1 level 1
17.06	17.06 Determine when conditions permit the concrete finishing operation to start.	2	2 level 2
17.07	17.07 Name the factors that affect the curing of concrete and describe the methods used to achieve proper curing	2	2 level 2
Reporting category total		5	
Reporting Category 18.0 Lay masonry units--The student will be able to:			
18.05	18.05 Describe the different types of masonry bonds.	2	2 level 1
18.06	18.06 Cut brick and block.	1	1 level 1
Reporting category total		3	
Reporting Category 19.0 Demonstrate science knowledge and skills--The student will be			

able to:

19.01	19.01 Explain molecular action as a result of temperature extremes, chemical reaction and moisture content.	2	2 level 2
19.04	19.04 Identify health-related problems that may result from exposure to work-related chemicals and hazardous materials, and demonstrate knowledge of the proper precautions required for handling such materials.	2	2 level 1
19.05	19.05 Explain pressure measurement in terms of PSI and inches of mercury.	2	2 level 2
Reporting category total		6	

Overall Percentage for Written Test: 30%

Overall Percentage for Performance Tasks: 70%

Course Name: Building Construction Technology 2

Course Number: 8720320

Overall Percentage for Performance Tasks: 70%

Performance Task #1	Concrete Counter/Table Tops
Weighting Percent for this Task	70%
Standard	14.0 Analyze construction components, materials, hardware and characteristics, 15.0 Demonstrate masonry skill, 16.0 Erect, plumb and brace a simple concrete form with reinforcement s, 17.0 Place concrete, 19.0 Demonstrate science knowledge and skills
Exemplar (If applicable)	
Additional Information	
Suggested Assessment Team	Construction Tech Teachers from FPC and MHS and/or Teacher and admin with knowledge

Rubric:

4	Project was completed with great quality
3	Project was completed, finer details omitted
2	Project completed multiple steps missed
1	Project completed, multiple steps missed, poor effort
0	Project started, not finished