

Course Title: Electricity			
Course Number: 8727210			
NGSSS Benchmark	Content Focus	Number of Questions	Suggested Cognitive Complexity (per CPALMS)
<i>Reporting Category 1: Health, Safety, and Regulatory Compliance</i>			
01.02	Describe personal and jobsite safety rules and regulations that maintain safe and healthy work environments.	3	3 Level 2
01.04	Identify health-related problems that may result from exposure to work-related chemicals and hazardous materials, and know the proper precautions required for handling such materials.	3	3 Level 2
<i>Reporting Category Total</i>		6	
<i>Reporting Category 2: Understanding Basic Direct-Current (DC) Electrical Circuits</i>			
02.01	Define the terms "voltage," "current," "resistance," "power," and "energy."	3	3 Level 2
02.02	Measure voltage, amperage, and resistance, using a Volt-Ohm Meter (VOM) and a Digital Volt-Ohm Meter (DVM).	3	3 Level 2
02.03	Analyze, and explain a series, series-parallel, and parallel circuit.	2	2 level 3
02.05	Explain and apply Ohm's Law.	3	3 Level 2
02.07	Read and interpret color codes to identify resistors.	2	2 Level 3
<i>Reporting Category Total</i>			
<i>Reporting Category 3: Understanding of Basic Electricity</i>			
05.01	Explain the principles of electromagnetism.	2	2 Level 3
05.03	Relate electricity to the nature of matter.	3	3 Level 2
05.04	Describe various ways that electricity is produced.	3	3 Level 2
<i>Reporting Category Total</i>			
<i>Reporting Category 4: Read and Interpret Basic Electric Codes</i>			
07.01	Describe the importance of following the local, state, and national electric codes.	3	3 Level 2
07.02	Read and interpret basic electric codes, wiring plans, and specifications.	3	3 Level 2
07.01	Describe the importance of following the local, state, and national electric codes.	3	3 Level 2
<i>Reporting Category Total</i>			
<i>Reporting Category 5: Employability and Entrepreneurship Skills</i>			
08.01	Identify and demonstrate positive work behaviors needed to be employable.	1	1 Level 1
08.03	Examine licensing, certification, and industry credentialing requirements.	1	1 Level 1
<i>Reporting category total</i>		2	
<i>Reporting Category 6: Importance of Professional Ethics and Legal Responsibility</i>			
09.03	Identify and explain personal and long-term consequences of unethical or illegal behaviors in the workshop.	1	1 Level 1
09.04	Interpret and explain written organizational policies and procedures.	1	1 Level 1
<i>Reporting category total</i>		2	

Overall Percentage for Written Test: ___100%___

Overall Percentage for Performance Tasks: _____