Kentucky CTE

Engineering Technology: Electrical/Electronics Engineering

Apply the design process involving EE1	a problem identification, conceptualization, and research EE1A
	b refinement of preliminary ideas, design analysis, development and implementation EE1B
	c detailed documentation of final design, optimization and final presentation. EE1C
Develop knowledge and understanding of EE2	a programmable logic controllers EE2A
	b electrical motors. EE2B
Demonstrate safe and appropriate use of tools, machines, and materials in electrical and electronic technology EE3	3 Demonstrate safe and appropriate use of tools, machines, and materials in electrical and electronic technology EE3
Demonstrate understanding and apply knowledge of direct current circuits and alternating current circuits as related to electrical technology. EE4	4 Demonstrate understanding and apply knowledge of direct current circuits and alternating current circuits as related to electrical technology. EE4
Describe, construct, conduct, and analyze experiments with basic DC and AC circuits and with circuits using magnetism. EE5	5 Describe, construct, conduct, and analyze experiments with basic DC and AC circuits and with circuits using magnetism. EE5

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Describe the structure of matter related to electricity and electronics. EE6	**6** Describe the structure of matter related to electricity and electronics. EE6
Use Ohm's Law and Watt's Law to analyze and experiment with resistive circuits EE7	**7** Use Ohm's Law and Watt's Law to analyze and experiment with resistive circuits EE7
Describe, construct analyze and experiment with capacitive circuits. EE8	**8** Describe, construct analyze and experiment with capacitive circuits. EE8
Demonstrate the use of electrical and electronic equipment. EE9	**9** Demonstrate the use of electrical and electronic equipment. EE9
Demonstrate proper electronic assembly methods EE10	**10** Demonstrate proper electronic assembly methods EE10
Demonstrate an understanding of basic electrical circuits and electronic systems. EE11	**11** Demonstrate an understanding of basic electrical circuits and electronic systems. EE11
Describe and experiment with integrated circuits. EE12	**12** Describe and experiment with integrated circuits. EE12
Describe, construct, and experiment with circuits using semiconductors. EE13	**13** Describe, construct, and experiment with circuits using semiconductors. EE13