Kentucky CTE

Engineering Technology: Mechanical Engineering

Apply the design process involving MEE1	**a** problem identification, conceptualization, and research MEE1A
	b refinement of preliminary ideas, design analysis, development and implementation MEE1B
	c detailed documentation of final design, optimization and final presentation MEE1C
Demonstrate an understanding of manufacturing, its history, models, and procedures. MEE2	**2** Demonstrate an understanding of manufacturing, its history, models, and procedures. MEE2
Demonstrate an understanding of MEE3	**a** control systems MEE3A
	b methods to describe or document their processes MEE3B
Demonstrate an understanding of the cost of manufacturing. MEE4	**4** Demonstrate an understanding of the cost of manufacturing. MEE4
Demonstrate proficiency in designing products for manufacturability. MEE5	**5** Demonstrate proficiency in designing products for manufacturability. MEE5
Demonstrate an understanding of manufacturing processes. MEE6	**6** Demonstrate an understanding of manufacturing processes. MEE6
Demonstrate an understanding of co co rel	**7** Demonstrate an understanding of computer numeric control (CNC) as it relates to product design and development. MEE7

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design and development. MEE7	
Demonstrate an understanding of automation and robotics relative to the manufacturing process. MEE8	**8** Demonstrate an understanding of automation and robotics relative to the manufacturing process. MEE8
Demonstrate an understanding of the elements of power and the associated mathematics. MEE9	**9** Demonstrate an understanding of the elements of power and the associated mathematics. MEE9
Build, program, and configure a robot to perform predefined tasks. MEE10	**10** Build, program, and configure a robot to perform predefined tasks. MEE10
Demonstrate an understanding of the elements of Computer Integrated Manufacturing (CIM). MEE11	**11** Demonstrate an understanding of the elements of Computer Integrated Manufacturing (CIM). MEE11
Demonstrate proficiency in designing an efficient flexible manufacturing system (FMS) that contains Computer Integrated Manufacturing (CIM) elements. MEE12	**12** Demonstrate proficiency in designing an efficient flexible manufacturing system (FMS) that contains Computer Integrated Manufacturing (CIM) elements. MEE12