Kentucky CTE

Engineering Technology: Engineering Capstone 210110 (2026–2027)

Apply the design process involving problem identification, conceptualization, research, refinement of preliminary ideas, design analysis, development and implementation, detailed documentation of final design, optimization and final presentation. 1	1 Apply the design process involving problem identification, conceptualization, research, refinement of preliminary ideas, design analysis, development and implementation, detailed documentation of final design, optimization and final presentation. 1
Identify, define, and justify a technical design problem for resolution. 2	2 Identify, define, and justify a technical design problem for resolution. 2
Conduct research and investigation into the stated problem. 3	3 Conduct research and investigation into the stated problem. 3
Perform and graphically represent an evaluation of proposed design solutions using specific criteria, including product specifications. 4	4 Perform and graphically represent an evaluation of proposed design solutions using specific criteria, including product specifications. 4
Design a solution to the problem and create a wo tes	5 Design a solution to the problem and create a working prototype for testing. 5

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Evaluate and select appropriate testing methodologies for testing the product, conduct product testing, refine the design as needed, and document the process and results. 6	**6** **Evaluate and select appropriate testing methodologies for testing the product, conduct product testing, refine the design as needed, and document the process and results.** 6
Create and deliver a formal presentation of the solution to the problem to community stakeholders. 7	**7** **Create and deliver a formal presentation of the solution to the problem to community stakeholders.** 7

Standard