Kentucky CTE

Advanced Manufacturing: Computer-Aided Design: Parametric Modeling 480136 (2026–2027)

Demonstrate and practice safe work habits in the lab area. 1	1 Demonstrate and practice safe work habits in the lab area. 1
Demonstrate an awareness of the terminology and concepts of Parametric Modeling. 2	2 Demonstrate an awareness of the terminology and concepts of Parametric Modeling. 2
Demonstrate basic parametric modeling procedures. 3	3 Demonstrate basic parametric modeling procedures. 3
Demonstrate the ability to create parametric sketches. 4	4 Demonstrate the ability to create parametric sketches. 4
Create fully constrained sketches. 5	5 Create fully constrained sketches. 5
Apply/modify geometric constraints and dimensions to capture and alter the design geometry of the part. 6	6 Apply/modify geometric constraints and dimensions to capture and alter the design geometry of the part. 6
Demonstrate, through practice, the co pa mc	7 Demonstrate, through practice, the construction of simple parametric solid models. 7

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Demonstrate the ability to perform feature-based modeling operations on parts. 8

8 Demonstrate the ability to perform feature-based modeling operations on parts. 8

Perform analyses on the model. 9

9 Perform analyses on the model. 9

Perform simple assembly modeling. 10

10 Perform simple assembly modeling. 10

Create desired working drawing layouts and dimensioned views from parametric solids. 11

11 Create desired working drawing layouts and dimensioned views from parametric solids. 11