Kentucky CTE

Advanced Manufacturing: Computerized Manufacturing and Machining: Advanced Dimensioning and Measurement 470924 (2026–2027)

Practice and perform safe shop procedures at all times. 1

1 Practice and perform safe shop procedures at all times. 1

Apply the technical math required for employment opportunities in machining. 2

2 Apply the technical math required for employment opportunities in machining. 2

Perform all duties with emphasis on integrity, responsibility, quality, discipline and teamwork. 3

3 Perform all duties with emphasis on integrity, responsibility, quality, discipline and teamwork. 3

Define terms and principles used in advanced dimensioning. 4

4 Define terms and principles used in advanced dimensioning. 4

Apply drawing practices and tolerance dimensioning on mating parts. 5

5 Apply drawing practices and tolerance dimensioning on mating parts. 5

Skip to main content

Ex| ANSI (American National

xplain and work with ANSI (American National Standards Institute) standards. 6

Standards Institute) standards. 6

Demonstrate surface texture symbols and surface finish. 7	7 Demonstrate surface texture symbols and surface finish. 7
Compare conventional tolerance with Geometric Dimensioning and Tolerance. 8	8 Compare conventional tolerance with Geometric Dimensioning and Tolerance. 8
Establish a basic understanding of Geometric Dimensioning and Tolerance. 9	9 Establish a basic understanding of Geometric Dimensioning and Tolerance. 9
Analyze specific graphic designs and determine the proper location for dimensions. 10	10 Analyze specific graphic designs and determine the proper location for dimensions. 10
Define terms and principles relating to Dimensional Metrology. 11	11 Define terms and principles relating to Dimensional Metrology. 11
Demonstrate a working knowledge of basic handheld measuring instruments. 12	12 Demonstrate a working knowledge of basic handheld measuring instruments. 12
Measure with basic hand-held measuring instruments. 13	13 Measure with basic hand-held measuring instruments. 13
Explain the relationship of precision measurement to manufacturing and design. 14	14 Explain the relationship of precision measurement to manufacturing and design. 14
De un ter	Skip to main content Demonstrate a working understanding of one-tenth of an inch and one-thousandth of an inch. 15

thousandth of an inch. [15]