Kentucky CTE

Advanced Manufacturing: Industrial Maintenance Technology: Blueprint Reading for Machinists 470921 (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 maintenance. 2	2 Apply the technical math required for employment opportunities in maintenance. 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
Demonstrate competency in mathematical fraction and decimal problems. 4	4 Demonstrate competency in mathematical fraction and decimal problems. 4
Identify the alphabet of lines. 5	5 Identify the alphabet of lines. 5
Identify multiple views. 6	6 Identify multiple views. 6
Ar views. 7	rrange multiple views. 7

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Arrange two-view drawings. 8	8 Arrange two-view drawings. 8
Identify one-view drawings. 9	9 Identify one-view drawings. 9
Arrange and identify auxiliary views. 10	10 Arrange and identify auxiliary views. 10
Demonstrate the use of size and location dimensions. 11	11 Demonstrate the use of size and location dimensions. 11
Demonstrate proper dimensions of cylinders and arcs. 12	12 Demonstrate proper dimensions of cylinders and arcs. 12
Size dimensions of holes and angles. 13	13 Size dimensions of holes and angles. 13
Locate dimensions for centering of holes, points, and centers. 14	14 Locate dimensions for centering of holes, points, and centers. 14
Interpret the base line dimensions on drawings. 15	15 Interpret the base line dimensions on drawings. 15
Calculate tolerances. 16	16 Calculate tolerances. 16
Identify labeling of various screw threads. 17	17 Identify labeling of various screw threads. 17
Calculate tapers and machined surfaces. 18	18 Calculate tapers and machined surfaces. 18
Dimension parts using shop notes. 19	19 Dimension parts using shop notes. 19
Identify half, full, and removed sections.	20 Identify half, full, and removed sections. 20

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Interpret ordinate and tabular dimensions. 21	21 Interpret ordinate and tabular dimensions. 21
Set tolerances using geometric dimensioning techniques. 22	22 Set tolerances using geometric dimensioning techniques. 22
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Sketch oblique views of various parts. 24	24 Sketch oblique views of various parts. 24
Sketch and dimension shop drawings. 25	25 Sketch and dimension shop drawings. 25
Demonstrate visualizing techniques of multiple views. 26	26 Demonstrate visualizing techniques of multiple views. 26
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Identify standards listings on working drawings. 28	28 Identify standards listings on working drawings. 28
List procedural machining and construction requirements from notations on working drawings. 29	29 List procedural machining and construction requirements from notations on working drawings. 29
List proper procedures for the construction of various machining processes. 30	30 List proper procedures for the construction of various machining processes. 30
Determine proper thread series and types for duty-specific assembly. 31	31 Determine proper thread series and types for duty-specific assembly. 31
Sp us	Skip to main content Specify duty-specific uses of contour notes. 32

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Determine overall measurements of contoured parts. 33	33 Determine overall measurements of contoured parts. 33
Explain various terms involved in multiple sections. 34	34 Explain various terms involved in multiple sections. 34
Identify usages for chamfers and interpret sizes. 35	35 Identify usages for chamfers and interpret sizes. 35
Define various chamfer terms. 36	36 Define various chamfer terms. 36
Determine the sizing procedures of necks and grooves. 37	37 Determine the sizing procedures of necks and grooves. 37
Identify various keyway and key seat standards. 38	38 Identify various keyway and key seat standards. 38
Identify the usage of geometric symbols. 39	39 Identify the usage of geometric symbols. 39
Define terms relating to geometric tolerancing. 40	40 Define terms relating to geometric tolerancing. 40
Set standards and tolerances using geometric dimensioning. 41	41 Set standards and tolerances using geometric dimensioning. 41
Set axis coordinates on numerical control prints. 42	42 Set axis coordinates on numerical control prints. 42
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Identify casting and forging terms. 44

44 Identify casting and forging terms. 44

Calculate bend setbacks in sheet metals and plate steels. 45

45 Calculate bend setbacks in sheet metals and plate steels. 45

Identify parts and materials from various reference books and manuals. 46

46 Identify parts and materials from various reference books and manuals. 46