Kentucky CTE

Industrial Maintenance Technology: Blueprint Reading for Machinists

Practice and perform safe shop procedures at all times. BRM1	**1 Practice and perform safe shop procedures at all times.** BRM1
Apply the technical math required for employment opportunities in maintenance. BRM2	**2 Apply the technical math required for employment opportunities in maintenance.** BRM2
Perform all duties with emphasis on BRM3	**a integrity** BRM3A
	b responsibility BRM3B
	c quality BRM3C
	d discipline BRM3D
	e teamwork BRM3E
Demonstrate competency in mathematical fraction and decimal problems. BRM4	**4 Demonstrate competency in mathematical fraction and decimal problems.** BRM4
Identify the alphabet of lines. BRM5	**5 Identify the alphabet of lines.** BRM5
Identify multiple views. BRM6	**6 Identify multiple views.** BRM6
Arrange multiple views. BRM7	**7 Arrange multiple views.** BRM7

Arrange two-view drawings. BRM8	**8** **Arrange two-view drawings.** BRM8
Identify one-view drawings. BRM9	**9** **Identify one-view drawings.** BRM9
Arrange and identify auxiliary views. BRM10	**10** **Arrange and identify auxiliary views.** BRM10
Demonstrate the use of size and location dimensions. BRM11	**11** **Demonstrate the use of size and location dimensions.** BRM11
Demonstrate proper dimensions of cylinders and arcs. BRM12	**12** **Demonstrate proper dimensions of cylinders and arcs.** BRM12
Size dimensions of holes and angles. BRM13	**13** **Size dimensions of holes and angles.** BRM13
Locate dimensions for centering of holes, points, and centers. BRM14	**14** **Locate dimensions for centering of holes, points, and centers.** BRM14
Interpret the base line dimensions on drawings. BRM15	**15** **Interpret the base line dimensions on drawings.** BRM15
Calculate tolerances. BRM16	**16** **Calculate tolerances.** BRM16
Identify labeling of various screw threads. BRM17	**17** **Identify labeling of various screw threads.** BRM17
Calculate tapers and machined surfaces. BRM18	**18** **Calculate tapers and machined surfaces.** BRM18
Dimension parts using shop notes. BRM19	**19** **Dimension parts using shop notes.** BRM19
Identify half, full, and removed sections. BRM20	**20** **Identify half, full, and removed sections.** BRM20

Interpret ordinate and tabular dimensions. BRM21	**21 Interpret ordinate and tabular dimensions.** BRM21
Set tolerances using geometric dimensioning techniques. BRM22	**22 Set tolerances using geometric dimensioning techniques.** BRM22
Sketch parts with irregular shapes. BRM23	**23 Sketch parts with irregular shapes.** BRM23
Sketch oblique views of various parts. BRM24	**24 Sketch oblique views of various parts.** BRM24
Sketch and dimension shop drawings. BRM25	**25 Sketch and dimension shop drawings.** BRM25
Demonstrate visualizing techniques of multiple views. BRM26	**26 Demonstrate visualizing techniques of multiple views.** BRM26
Identify line types used in combinations. BRM27	**27 Identify line types used in combinations.** BRM27
Identify standards listings on working drawings. BRM28	**28 Identify standards listings on working drawings.** BRM28
List procedural machining and construction requirements from notations on working drawings. BRM29	**29 List procedural machining and construction requirements from notations on working drawings.** BRM29
List proper procedure for construction of various machining processes. BRM30	**30 List proper procedure for construction of various machining processes.** BRM30
Determine proper thread series and types for duty specific assembly. BRM31	**31 Determine proper thread series and types for duty specific assembly.** BRM31

Specify duty specific uses of contour notes. BRM32	**32** **Specify duty specific uses of contour notes.** BRM32
Determine overall measurements of contoured parts. BRM33	**33** **Determine overall measurements of contoured parts.** BRM33
Explain various terms involved in multiple sections. BRM34	**34** **Explain various terms involved in multiple sections.** BRM34
Identify usages for chamfers and interpret sizes. BRM35	**35** **Identify usages for chamfers and interpret sizes.** BRM35
Define various chamfer terms. BRM36	**36** **Define various chamfer terms.** BRM36
Determine the sizing procedures of necks and grooves. BRM37	**37** **Determine the sizing procedures of necks and grooves.** BRM37
Identify various keyway and key seat standards. BRM38	**38** **Identify various keyway and key seat standards.** BRM38
Identify usage of geometric symbols. BRM39	**39** **Identify usage of geometric symbols.** BRM39
Define terms relating to geometric tolerancing. BRM40	**40** **Define terms relating to geometric tolerancing.** BRM40
Set standards and tolerances using geometric dimensioning BRM41	**41** **Set standards and tolerances using geometric dimensioning** BRM41
Set axis coordinates on numerical control prints. BRM42	**42** **Set axis coordinates on numerical control prints.** BRM42
Determine axis coordinates on ordinate	**43** **Determine axis coordinates on ordinate and tabular prints.** BRM43

and tabular prints. BRM43

Identify casting and forging terms. BRM44	44 Identify casting and forging terms. BRM44
Calculate bend setbacks in sheet metals and plate steels. BRM45	45 Calculate bend setbacks in sheet metals and plate steels. BRM45
Identify parts and materials from various reference books and manuals. BRM46	46 Identify parts and materials from various reference books and manuals. BRM46