Kentucky CTE

# Industrial Maintenance Technology: Blueprint Reading for Machinists

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| **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 |
| **Ari vie** | **ırrange multiple views.** BRM7 |

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| **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 |
| **Id re** Skip to main content | **Identify half, full, and removed sections.** BRM20 |

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| **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 as** | **31 Determine proper thread series and types for duty specific assembly.** BRM31 |

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| **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 |
| **De co** Skip to main content | **Determine axis coordinates on ordinate and tabular prints.** BRM43 |

and tabular prints. BRM43

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| 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 |