

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
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and tabular
prints. [BRM43](#)

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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](#)