PRE-TEST

No Sweat Blueprint Reading

Name _____ Date _____



Training tools for quality excellence 1-440-823-6759

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The purpose of the *No Sweat Blueprint Reading* Pre-Test is to help determine your current understanding and working knowledge of blueprints.

The Pre-Test will help uncover your areas of weakness so that appropriate training can be prescribed which will eliminate the weakness. Do not take an undue amount of time trying to figure out the correct answer. Typically, you will either know the answer, or you won't. If you do not know the answer, your natural instinct will be to "guess." In the long run, this will not help you. Simply pass over the question and go on to the next.

Finally, this test is not intended to either qualify or disqualify you for a particular job. It simply provides a starting point from which training can be prescribed.

If you will be grading your own test, your instructor will provide you with the answer sheet when you're finished.

Unless otherwise instructed, place an "X" next to the answer that best completes the following questions or statements.

1. How many views, or projections, are possible on the simple box shown at right below?



2. The projection shown at right below has three views, numbered 1, 2, and 3. Match the view to its appropriate description.



- 3. A full, heavy line on a blueprint indicates a:
 - a. ____ Visible Line or Object Line
 - b. <u>Centerline</u>
 - c. Internal Thread
- 4. Match the numbers 1, 2, and 3 below with their appropriate descriptions.



- 5. If the tolerance on your drawing is \pm .005, and the specified length of a part is 1.000, which of the following describes the acceptable lengths for the part?
- a. ____ 0.995 1.005
- b. _____ 1.005 only



6. Write the names of the features or types of lines labelled at right below:

7. The scale, 1/2 = 1, on a drawing means:

- a. <u>1/2 of the drawing is equal to 1 part.</u>
- b. _____ The part on the drawing is between 1/2" and 1" in size.
- c. _____ The actual part is twice as big as the drawing.
- 8. The drawing at right below shows a/an:
 - a. Internal thread
 - b. ____ Full section view
 - c. Off-center diameter



9. Match the words listed on the right below with their appropriate definitions.

a.	A uniform change in the diameter of a part along its length	Groove
b.	A recess cut in the diameter of a part	Round
C.	A rounded corner of a part that curves outward	Fillet
d.	A flattening of an outside corner of a part edge	Chamfer
e.	A rounded inside corner of a part	Taper

10. Match the words listed on the right below with their appropriate definitions.

a.	Two of the most common types are "T" and dovetail	Flat
b.	Prevents relative motion between a shaft and a part	Key
c.	A flat area cut on a shaft to provide a surface on which a set screw can rest	Boss
d.	A cylindrical projection used as a bearing surface to prevent rocking of parts	Slot
e.	Typically oval in shape, they are used as a bearing surface to prevent locking of parts	Pad

- 11. A surface finish requirement is indicated by the following symbols:
 - a. ____ V or 63√ <u>.002</u>
 - b. _____ ± or >
 - c. _____ °, ", or '
- 12. The drawing at right below shows a:
 - a. ____ Threaded hole
 - b. <u>Countersunk hole</u>
 - c. ____ Through hole
 - d. ____ None of the above



- 13. The drawing at right below shows a:
 - a. ____ Countersunk hole
 - b. ____ Tapped hole
 - c. ____ Spotfaced hole



14. The drawing at left below shows a:



- a. ____ Threaded hole
 b. ____ Countersunk hole
 c. ____ Counterbored hole
 d. ____ None of the above
- 15. The drawing at left below shows a:



- a. ____ Spotfaced hole
- b. <u>Countersunk hole</u>
- c. Counterbored hole
- d. ____ None of the above

16. Look at the thread callout shown at right below. Then, next to each thread characteristic listed at left, write the numbers or letters in the thread callout that define it.

