

(These items were developed by teachers for the Technical Skills Assessment. Below is a sample item for each program standard.)

**Question 1 of 13**

What manufacturing process produces the smallest amount of waste material?

- A) Collaborative
- B) Additive
- C) Divisive
- D) Subtractive

**Question 2 of 13**

What are two ESSENTIAL characteristics of a workstation?

- A) Safety, green technology
- B) Functionality, design
- C) Cleanliness, access
- D) Cleanliness, safety

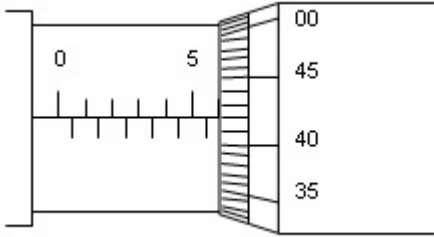
**Question 3 of 13**

What fit tolerance may require the use of a press?

- A) LC - locational clearance fit
- B) LN - locational interference fit
- C) RF - running fit
- D) FN - force or shrink fit

### Question 4 of 13

What is the CORRECT reading of the metric micrometer shown?



- A) 6.92 mm
- B) 5.42 mm
- C) 6.40 mm
- D) 5.92 mm

### Question 5 of 13

How does tempering change the properties of a hardened piece of tool steel?

- A) Increases toughness
- B) Increases brittleness
- C) Hardens
- D) Anneals

### Question 6 of 13

What is the MOST LIKELY problem while drilling a hole with a new bit on the drill press, it makes a squealing sound?

- A) Drill feed is too fast.
- B) Drill RPM is too fast.
- C) Drill chuck wobbles.
- D) Drill is dull.

### Question 7 of 13

At which angle is the compound rest set to cut a 60-degree standard thread?

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- A) 29.5 degrees
- B) 35 degrees
- C) 50 degrees
- D) 89.5 degrees

### Question 8 of 13

What is the PURPOSE of inspecting the condition of cutting tools?

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- A) To define cut
- B) To determine wear
- C) To measure surfaces
- D) To prepare parameters

### Question 9 of 13

What is the step AFTER installing a wheel on the surface grinder?

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- A) Check the RPM rating of the wheel.
- B) Ring test the wheel.
- C) Dress the wheel.
- D) Visually inspect the wheel.

### Question 10 of 13

What function MUST be activated for a CNC machine to read M01 command?

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- A) Optional stop
- B) Vice stop
- C) Emergency stop
- D) Block delete

### Question 11 of 13

Which part of the CNC lathe holds all the tools?

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- A) Tool post
- B) Chuck
- C) Spindle
- D) Turrets

### Question 12 of 13

What is the PURPOSE of the manual jog wheel?

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- A) To change tools
- B) To move coolant
- C) To move the axis
- D) To run the spindle

### Question 13 of 13

Which step is part of the CAD process?

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- A) Dry running a program
- B) Post-processing
- C) Tool path creation
- D) Solid modeling

Precision Machining Sample Test Answer Key

<b>Question</b>	<b>Answer</b>
1.	B
2.	D
3.	D
4.	D
5.	A
6.	B
7.	A
8.	B
9.	C
10.	A
11.	D
12.	C
13.	D