

WB705D-DB02UEN-E1 - Basic CNC Mill Programming

Student Name:

"USE INTERNET TO HELP ANSWER QUESTIONS"

Date:

Circle the Correct Answer

1.The command to use S.I. coordinates (millimeters) is _____.

- A. G20
- B. G21
- C. M20
- D. 2
- E. None of the above

2.Which of the following cannot be used to determine the proper tooling size for a CNC program?

- A. The part drawing
- B. The CNC program
- C. The CNC machine
- D. All of the above
- E. None of the above

3.Which of the following is not a step in determining the tool size for a CNC operation?

- A. Identify the desired depth of cut.
- B. Identify specifications on sharp concave corners.
- C. Identify the smallest slot width.
- D. Identify the smallest concave fillet.
- E. None of the above

4.When cutting 10 mm deep into a part, the smallest cutting tool that should be used would be a _____.

- A. 5 mm end mill
- B. 10 mm end mill
- C. 15 mm end mill
- D. 20 mm end mill
- E. None of the above

5.What is the difference between M03 and M04?

- A. M03 turns the spindle clockwise, and M04 turns the spindle counterclockwise.
- B. M03 turns the spindle counterclockwise, and M04 turns the spindle clockwise.
- C. M03 starts the spindle and M04 stops the spindle.
- D. M03 stops the spindle and M04 starts the spindle.
- E. None of the above

6.G00 is called _____.

- A. "Straight Line Cutting."
- B. "Linear Interpolation."
- C. "Rapid Traverse."
- D. "Spindle On."
- E. None of the above

7.Which of the following is the most accurate way to locate the edge of a part?

- A. Look to see when the tool is positioned correctly.
- B. Touch off the part with a tool.
- C. Touch off the part with a tool and a piece of paper.
- D. Touch off the part with an edgefinder.
- E. None of the above

8.Which of the following is not part of a CNC program?

- A. The shutdown blocks
- B. The toolpath blocks
- C. The spindle blocks
- D. The startup blocks
- E. None of the above

9.Which of the following is not true about the PRZ and the tool offset?

- A. The tool offset remains the same even if you change tools.
- B. The PRZ remains the same even if you change tools.
- C. An incorrect tool offset can cause the tool to cut nothing.
- D. An incorrect tool offset can cause the tool to try to cut material in rapid traverse mode.
- E. None of the above

10.Which of the following specifies the program line number?

- A. The G-code
- B. The N-word
- C. The E-word
- D. The auxiliary words
- E. None of the above

11.To end a CNC program, you must use _____.

- A. M02
- B. M30
- C. both M02 and M30
- D. either M02 or M30
- E. None of the above