Kentucky CTE

Advanced Manufacturing: Computerized Manufacturing and Machining: Conversational Editing and Subroutines 470927 (2026–2027)

Practice and perform safe shop procedures at all times. 1

1 Practice and perform safe shop procedures at all times. 1

Apply the technical math required for employment opportunities in machining. 2

2 Apply the technical math required for employment opportunities in machining. 2

Perform all duties with emphasis on integrity, responsibility, quality, discipline and teamwork. 3

3 Perform all duties with emphasis on integrity, responsibility, quality, discipline and teamwork. 3

Identify preventative measures. 4

4 Identify preventative measures. 4

Identify hazardous materials. 5

5 Identify hazardous materials. 5

Practice safe use of CNC milling machines. 6

6 Practice safe use of CNC milling machines. 6

Us pr Skip to main content Ise conversational programming of CNC machine tools. 7

machine tools. 7

Complete projects using the skills obtained in the classroom in work situations. 8

8 Complete projects using the skills obtained in the classroom in work situations. 8

Write a conversational program. 9

9 Write a conversational program. 9

Troubleshoot the program and correct mistakes. 10

10 Troubleshoot the program and correct mistakes. 10

Identify errors and correct them in programs. 11

11 Identify errors and correct them in programs. 11

Improve programs. 12

12 Improve programs. 12

Write programs by hand. 13

13 Write programs by hand. 13

Perform machining operations using programs written by hand. 14

14 Perform machining operations using programs written by hand. 14

Edit existing programs. 15

15 Edit existing programs. 15

Edit existing blocks in programs. 16

16 Edit existing blocks in programs. 16

Interpret error messages from the control. 17

17 Interpret error messages from the control. 17

Demonstrate knowledge of when to use and when not to use polar coordinates. 18

18 Demonstrate knowledge of when to use and when not to use polar coordinates. 18

Ca
I, J

Skip to main content

Calculate X, Y, OR Z and I, J, or K points using the Pythagorean Theorem and trigonometry. 19

Pythagorean Theorem and trigonometry. 19

Write a program containing subroutines. 20

20 Write a program containing subroutines. 20

Write a program containing loops. 21

21 Write a program containing loops. 21