Kentucky CTE

Advanced Manufacturing: Computerized Manufacturing and Machining: Fundamentals of Machine Tools – B 470914 (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 in machining. 2	2 Apply the technical math required for employment 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
Demonstrate knowledge of lathes, parts, and applications. 4	4 Demonstrate knowledge of lathes, parts, and applications. 4
Demonstrate the care and safe use of lathes. 5	5 Demonstrate the care and safe use of lathes. 5
Demonstrate use and knowledge of mill parts and applications. 6	6 Demonstrate use and knowledge of mill parts and applications. 6
Demonstrate knowledge of	7 Demonstrate knowledge of cutting tools. 7

Skip to main content

Demonstrate knowledge of cutting fluids. 8

8 Demonstrate knowledge of cutting fluids. 8

Identify and explain the handling procedure for hazardous material and the content of MSDS. 9

9 Identify and explain the handling procedure for hazardous material and the content of MSDS. 9

Calculate set speeds and feeds on a lathe. 10

10 Calculate set speeds and feeds on a lathe. 10

Sharpen high-speed tool bits. 11

11 Sharpen high-speed tool bits. 11

Mount work piece on a lathe. 12

12 Mount work piece on a lathe. 12

Face a work piece. 13

13 Face a work piece. 13

Perform turning operations. 14

14 Perform turning operations. 14

Machine with carbide cutting tools. 15

15 Machine with carbide cutting tools. 15

File and polish a work piece. 16

16 File and polish a work piece. 16

Demonstrate knowledge of a milling machine, parts, and applications. 17

17 Demonstrate knowledge of a milling machine, parts, and applications. 17

Demonstrate the care and safe use of milling machines. 18

18 Demonstrate the care and safe use of milling machines. 18

Calculate set speeds and feeds on the milling machine. 19

19 Calculate set speeds and feeds on the milling machine. 19

Mill flat surfaces and grooves using a vertical mi

20 Mill flat surfaces and grooves using a vertical mill. 20

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Apply cutting fluid to machining operations. 21

21 Apply cutting fluid to machining operations. 21