Kentucky CTE

Advanced Manufacturing: Wood Manufacturing: Advanced Wood Processing 480733 (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. 2	2 Apply the technical math required for employment opportunities. 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 the basic parts of a CNC machining center. 4	4 Identify the basic parts of a CNC machining center. 4
Describe the career opportunities and job titles in CNC. 5	5 Describe the career opportunities and job titles in CNC. 5
Identify the tasks that must be done to put a job into production. 6	6 Identify the tasks that must be done to put a job into production. 6
Describe the tasks in the CNC process. 7	7 Describe the tasks in the CNC process. 7

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Identify standard and auxiliary axes on routers and boring machines using the “Right Hand Rule.” 8	8 Identify standard and auxiliary axes on routers and boring machines using the “Right Hand Rule.” 8
Describe the characteristics of and differences between position and reference points. 9	9 Describe the characteristics of and differences between position and reference points. 9
Calculate coordinate points using absolute Cartesian values. 10	10 Calculate coordinate points using absolute Cartesian values. 10
Calculate coordinate points using incremental Cartesian values. 11	11 Calculate coordinate points using incremental Cartesian values. 11
Locate and select coordinate values for reference points. 12	12 Locate and select coordinate values for reference points. 12
Identify data storage media in CNC. 13	13 Identify data storage media in CNC. 13
Identify the components of a CNC system. 14	14 Identify the components of a CNC system. 14
List the special features of CNC. 15	15 List the special features of CNC. 15
Select the tooling for a CNC job. 16	16 Select the tooling for a CNC job. 16
Select and use appropriate holding tools. 17	17 Select and use appropriate holding tools. 17
Perform routine maintenance. 18	18 Perform routine maintenance. 18
Lo co	Skip to main content Load code into the control of CNC machining center. 19

machining center. 19

Align and coordinate the machine and tools. 20	20 Align and coordinate the machine and tools. 20
Enter tool offsets and cutter geometry. 21	21 Enter tool offsets and cutter geometry. 21
Test and run a program. 22	22 Test and run a program. 22
Write an operator setup document. 23	23 Write an operator setup document. 23
Select speeds and feeds for the type of tool and material to be machined. 24	24 Select speeds and feeds for the type of tool and material to be machined. 24
Plan an efficient and safe program with good sequencing. 25	25 Plan an efficient and safe program with good sequencing. 25
Identify proprietary differences in “G” and “M” codes. 26	26 Identify proprietary differences in “G” and “M” codes. 26
Use the basic coded words in the program. 27	27 Use the basic coded words in the program. 27