Kentucky CTE

Advanced Manufacturing: Wood Manufacturing: Millwork Technology 480717 (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
Interpret architectural prints and shop drawings. 4	4 Interpret architectural prints and shop drawings. 4
Define the three levels utilized in the Architectural Woodworking Institute's Quality Standards. 5	5 Define the three levels utilized in the Architectural Woodworking Institute's Quality Standards. 5
Conduct field measurements of projects in process to verify dimensions. 6	6 Conduct field measurements of projects in process to verify dimensions. 6
Ide an	dentify typical stock and custom millwork projects and products. 7

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projects and products. 7

Select a profile, design a template, grind the knives, install the tooling, set up the molder, run the stock, and troubleshoot the machine. 8

8 Select a profile, design a template, grind the knives, install the tooling, set up the molder, run the stock, and troubleshoot the machine. 8

Calculate feed rates needed to meet AWI specifications for millwork. 9

9 Calculate feed rates needed to meet AWI specifications for millwork. 9

Fabricate one or more millwork products to a specified quality level. 10

10 Fabricate one or more millwork products to a specified quality level. 10

Recognize the common sizes, types, and construction techniques used to manufacture doors, windows, and stair parts. 11

11 Recognize the common sizes, types, and construction techniques used to manufacture doors, windows, and stair parts. 11

Prepare a finishing sample that reflects AWI premium grade specifications. 12

12 Prepare a finishing sample that reflects AWI premium grade specifications. 12

Prepare a take-off and an estimate from a set of architectural plans. 13

13 Prepare a take-off and an estimate from a set of architectural plans. 13

Sharpen cutters on an abrasive wheel or stone. 14

14 Sharpen cutters on an abrasive wheel or stone. 14