Kentucky CTE

Advanced Manufacturing: Wood Manufacturing: Introduction to Panel Processing 480711 (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 commercial and residential applications for panel materials. 4

4 Identify commercial and residential applications for panel materials. 4

Explain industry trends and panel processing equipment capabilities and techniques. 5

5 Explain industry trends and panel processing equipment capabilities and techniques. 5

Identify, evaluate, and specify joinery and assembly techniques. 6

6 Identify, evaluate, and specify joinery and assembly techniques. 6

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Operate various types of software for designing, cutting, and optimization for efficient use of panel goods. 7	7 Operate various types of software for designing, cutting, and optimization for efficient use of panel goods. 7
Specify the quality and quantity of materials required to fabricate frameless casework. 8	8 Specify the quality and quantity of materials required to fabricate frameless casework. 8
Properly layout component panels utilizing the 32mm system. 9	9 Properly layout component panels utilizing the 32mm system. 9
Set up and operate common panel processing equipment, including a panel saw, edge bander, boring machine, and case clamp in a cellular manufacturing environment. 10	10 Set up and operate common panel processing equipment, including a panel saw, edge bander, boring machine, and case clamp in a cellular manufacturing environment. 10
Generate basic machine codes and programs for running machine centers. 11	11 Generate basic machine codes and programs for running machine centers. 11
Fabricate a typical frameless piece of casework. 12	12 Fabricate a typical frameless piece of casework. 12
Develop and perform routine preventive maintenance on the panel saw edge bander, boring machine, and the case clamp. 13	13 Develop and perform routine preventive maintenance on the panel saw edge bander, boring machine, and the case clamp. 13
Develop an understanding of the dif re	14 Develop an understanding of the different tooling requirements while working on various panel products. 14

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working on various panel products. 14

Apply work site and lab safety procedures. 15

15 Apply work site and lab safety procedures. 15

Apply personal safety rules and procedures. 16

16 Apply personal safety rules and procedures. 16

Apply fire prevention rules and procedures. 17

17 Apply fire prevention rules and procedures. 17

Apply first aid procedures. 18

18 Apply first aid procedures. 18

Explain how to obtain first aid certification. 19

19 Explain how to obtain first aid certification. 19

Demonstrate hazardous communication procedures. 20

20 Demonstrate hazardous communication procedures. 20

Describe and demonstrate universal precaution procedures. 21

21 Describe and demonstrate universal precaution procedures. 21

Solve first-degree algebra equations. 22

22 Solve first-degree algebra equations. 22

Apply algebraic knowledge to solve verbal problems and formulas. 23

23 Apply algebraic knowledge to solve verbal problems and formulas. 23

Solve simple plane and solid geometry problems. 24

24 Solve simple plane and solid geometry problems. 24