Kentucky CTE

Advanced Manufacturing: Wood Manufacturing: Wood Finishing 480720 (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
Prepare a surface/product for the finishing process. 4	4 Prepare a surface/product for the finishing process. 4
Identify the factors associated with the finish quality of a wood product. 5	5 Identify the factors associated with the finish quality of a wood product. 5
Differentiate between paints, varnish, lacquer, shellac, polyurethane, conversion varnish, and water-based products. 6	6 Differentiate between paints, varnish, lacquer, shellac, polyurethane, conversion varnish, and water-based products. 6
Demonstrate contemporary ap for water-based products. 7	7 Demonstrate contemporary application techniques for both oil-based and water-based products. 7

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Explain the theory and operation of various coating technologies. 8	**8 Explain the theory and operation of various coating technologies.** 8
Disassemble, re-assemble, and adjust a conventional spray gun. 9	**9 Disassemble, re-assemble, and adjust a conventional spray gun.** 9
Develop a finishing schedule for a variety of finishing materials applied to a variety of substrates. 10	**10 Develop a finishing schedule for a variety of finishing materials applied to a variety of substrates.** 10
Describe EPA and OSHA regulations as they pertain to the finishing industry. 11	**11 Describe EPA and OSHA regulations as they pertain to the finishing industry.** 11
Evaluate and specify drying equipment, fluid handling equipment, and exhaust/filtering systems. 12	**12 Evaluate and specify drying equipment, fluid handling equipment, and exhaust/filtering systems.** 12
Perform standardized tests on finished surfaces to determine durability. 13	**13 Perform standardized tests on finished surfaces to determine durability.** 13
Apply work site and lab safety procedures. 14	**14 Apply work site and lab safety procedures.** 14
Apply personal safety rules and procedures. 15	**15 Apply personal safety rules and procedures.** 15
Apply fire prevention rules and procedures. 16	**16 Apply fire prevention rules and procedures.** 16
Apply first aid pr	**17 Apply first aid procedures.** 17

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Explain how to obtain first aid certification. 18

18 **Explain how to obtain first aid certification.** 18

Demonstrate hazardous communication procedures. 19

19 **Demonstrate hazardous communication procedures.** 19

Describe and demonstrate universal precaution procedures. 20

20 **Describe and demonstrate universal precaution procedures.** 20