Kentucky CTE

Advanced Manufacturing: Wood Manufacturing: Lumber Grading and Drying 480716 (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
Use First Aid and perform CPR. 4	4 Use First Aid and perform CPR. 4
Describe basic lumber economics. 5	5 Describe basic lumber economics. 5
Identify woods by physical characteristics. 6	6 Identify woods by physical characteristics. 6
Describe career opportunities in the wood industry. 7	7 Describe career opportunities in the wood industry. 7
Lis wo	ist the job titles in the wood industry. 8

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Calculate the unit of “board feet.” 9

9 Calculate the unit of “board feet.” 9

Define cutting, clear-faced cutting, and sound cutting. 10

10 Define cutting, clear-faced cutting, and sound cutting. 10

Calculate the percentage of clear wood in the clear face-cutting grades. 11

11 Calculate the percentage of clear wood in the clear face-cutting grades. 11

Identify requirements for the standard grade of “Firsts and Seconds.” 12

12 Identify requirements for the standard grade of “Firsts and Seconds.” 12

Identify requirements for the standard grade of “FASIF.” 13

13 Identify requirements for the standard grade of “FASIF.” 13

Identify requirements for the standard grade of “#1 Common.” 14

14 Identify requirements for the standard grade of “#1 Common.” 14

Identify requirements for the standard grade of “#2A Common.” 15

15 Identify requirements for the standard grade of “#2A Common.” 15

Identify requirements for the standard grade of “#2B Common.” 16

16 Identify requirements for the standard grade of “#2B Common.” 16

Identify requirements for the standard grade of “#3A Common.” 17

17 Identify requirements for the standard grade of “#3A Common.” 17

Identify requirements for the standard grade of “#3B Common.” 18

18 Identify requirements for the standard grade of “#3B Common.” 18

Identify requirements for the standard grade of “Selects.” 19

19 Identify requirements for the standard grade of “Selects.” 19

Me rule. 20

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Measure using a lumber rule. 20

Apply grading practices. 21	**21 Apply grading practices.** 21
Apply safety techniques when operating a dry kiln. 22	**22 Apply safety techniques when operating a dry kiln.** 22
Identify the basic components of a lumber dry kiln. 23	**23 Identify the basic components of a lumber dry kiln.** 23
Identify types of dry kilns. 24	**24 Identify types of dry kilns.** 24
Apply sample selection techniques in preparation for loading. 25	**25 Apply sample selection techniques in preparation for loading.** 25
Calculate the moisture content of samples/sections. 26	**26 Calculate the moisture content of samples/sections.** 26
Calculate the oven-dried weight of samples. 27	**27 Calculate the oven-dried weight of samples.** 27
Calculate the moisture of a sample. 28	**28 Calculate the moisture of a sample.** 28
Construct a drying schedule for a particular species and thickness. 29	**29 Construct a drying schedule for a particular species and thickness.** 29
Apply a drying schedule in a lab kiln for species and thickness. 30	**30 Apply a drying schedule in a lab kiln for species and thickness.** 30
Discuss the economics of equality versus time considerations when drying lumber. 31	**31 Discuss the economics of equality versus time considerations when drying lumber.** 31
Ap sch Skip to main content	**Apply accelerated drying schedules.** 32

Maintain drying records and charts. 33

33 Maintain drying records and charts. 33