

How To Dry Lumber For Quality And Profit

Tuesday, Dec. 16

- 8:00 Course introduction
Why wood is dried
Safety
Softwood structure
- 9:30 Break
Moisture content
Oven-dry method (optional)
Wood variability
Measuring temperature and humidity
Psychrometrics, EMC
- 11:30 Lunch (on your own)
Shrinkage and strength
Water movement in wood
Factors affecting the drying rate
Stress development and relief
- 2:15 Break
Drying defects
Types of schedules
Time-based schedules
Q&A
- 4:00 Adjourn

Wednesday, Dec. 17

- 8:00 Equalization
Conditioning and cooldown
Selecting an air velocity
Additional schedule considerations
Other schedule considerations
- 9:30 Break
High-temperature drying
Continuous kiln schedules (Optional)
Kiln designs
Steam
Steam-heated kilns, steam delivery
- 11:30 Lunch (on your own)

Wednesday, Dec. 17 (cont)

- Steam-heated kilns, condensate return
Direct-fired kilns (optional)
Venting and humidification
Fan systems
Baffling
Sorting in the sawmill
- 2:15 Break
Stacking
Loading the kiln
Preparing to dry
Q&A
- 4:00 Adjourn

Thursday, Dec. 18

- 8:00 Starting and running the kiln
Moisture meters
MC measurement at the kiln
- 9:30 Break
Maintenance, mechanical 1
Maintenance, mechanical 2
How the controller works
Maintenance, control system
- 11:30 Lunch (on your own)
Measuring airflow
Cost of drying
Energy
Minimizing downtime
- 2:15 Break
Describing data
Measuring and organizing data
Analysis techniques
Q&A
- 4:00 Closing remarks and adjourn