

How To Dry Lumber For Quality And Profit

Monday, Dec. 9

- 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

Tuesday, Dec. 10

- 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)

Tuesday, Dec. 10 (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

Wednesday, Tuesday, Dec. 11

- 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