June 18th to 20th, 2024
FPInnovations and Maritime College of Forest Technology
Hugh John Flemming Forestry Centre, Fredericton, NB

Spruce-Pine-Fir Kiln Operator Course

Quality Drying of S-P-F for Dimension Lumber and Other End Uses: Conventional & High-Temperature

This course will provide a thorough review of the basic principles involved in lumber drying. The course will progress from a presentation of the fundamentals of wood drying to the day-to-day operation of a dry kiln. Emphasis will be on drying S-P-F for dimension lumber, however, time will be dedicated to discussing drying requirements or implications for products such as MSR, Glu-Lam, CLT, and finger-jointed lumber. Both conventional temperature (up to 190°F) and high temperature (up to 240°F) drying will be discussed.

This course is equivalent to 18 Continuing Forestry Education (CFE) credits. Upon course completion, all particpants will receive a certificate for verification purposes.

Who Should Attend?

The course is designed for new or experienced kiln operators, quality control personnel, and their immediate supervisors. It is also open to anyone else who feels they would benefit from a better understanding of the factors that affect a drying operations productivity and profitability.

Course Instructors

Peter Garrahan, Garrahan Consulting**,** well known expert wood drying scientist with over 30 years of experience in industrial drying systems and wood drying research. Peter is a regular instructor with kiln operator courses in various regions of Eastern Canada.

Vincent Lavoie, FPInnovations, well known expert wood drying scientist with over 20 years experience in research and testing on the drying of Eastern S-P-F. Vincent regularly presents seminars and workshops on lumber drying.

Registration Fee - $1,850.00 *(Plus HST)*

Includes instructional material, kiln operator's manual "Drying Spruce-Pine-Fir Lumber", handouts, and daily refreshment breaks.

Course enrolment is limited to 25 students.

The full registration fee must be received prior to the course to guarantee your seat. Full refund if you cancel prior to 15 days before the course start date. Late cancellations will be subject to a $195 cancellation fee unless course becomes filled or registration is transferred to another individual from the same company.

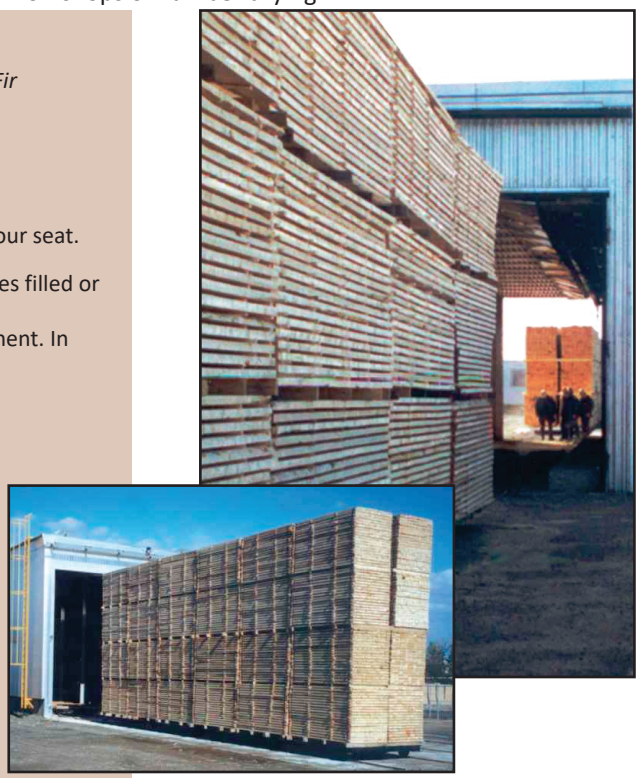
The organizers reserve the right to cancel the course failing sufficient enrolment. In the event of course cancellation, all registration fees will be returned in full.

Register by completing the attached form by Friday, June 7th, 2024. *First-come, first-served basis.*

For information, please contact:

- **Chris Finnamore, CFT**
  (506) 458-0649
  ce@mcft.ca

Visa, MasterCard, and e-transfer accepted



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A Leader in Forestry Education Since 1946

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COURSE DESCRIPTION

June 18th - Day 1 - Registration 8:00 AM - 8:30 AM, Course 8:30 AM - 4:30 PM

- Wood anatomy related to drying
- Wood moisture relations
- Principal and use of DC-resistance moisture meters
- Principal and use of hand-held, power-loss moisture meters
- In-line moisture meters
- Quality control techniques
- Defining moisture content and oven-dry test procedures
- Drying stresses, shrinkage, and other drying defects

June 19th - Day 2 - 8:30 AM - 4:30 PM

- Drying characteristics of black spruce, white spruce, jack pine, and
- Role of relative humidity, temperature, and air flow in drying
- Wet pockets in balsam fir
- Theory of developing a drying schedule
- Pre-sorting to improve productivity and quality
- Conventional and high-temperature drying schedules

June 20th - Day 3 - 8:30 AM - 4:30 PM

- Kiln operation and maintenance
- Kiln controllers and kiln control strategies *(i.e. TDAL, exiting versus entering air control)*
- Overview of drying alternatives (air drying, convential kiln drying, High-temperature drying)
- Air flow requirements
- Energy Consumption
- Kiln technologies- including continuous i.e. CDK kilns

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Quality Drying of S-P-F for Dimension Lumber and Other End Uses: Conventional & High-Temperature

Registration Form

Last Name

First Name

Company

Address

City

Province / State

Postal / Zip Code

Telephone

Fax

E-mail

Registration Fee - $1,850.00 *plus HST*

Includes instructional material, Kiln Operator's Manual for Eastern Canada, handouts, and daily refreshment breaks.

Course enrolment is limited to 25 students.

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The organizers reserve the right to cancel the course failing sufficient enrolment. In the event of course cancellation, all registration fees will be returned in full.

Fax completed form to:
(506) 458-0652
OR
email completed form to:
ce@mcft.ca
Maritime College of Forest Technology

Registration due by Friday, June 9, 2024
First-come, first-served basis.

Payment Options

☐ **Cheque:**

Please make cheque payable to:
Maritime College of Forest Technology
Mail to: 1350 Regent Street, Fredericton
New Brunswick, Canada, E3C 2G6

☐ **Credit Card** *(Visa,and MasterCard accepted):*

Card Number

Expiration

Name as it appears on card (please print)

Cardholder's signature

For information, contact:

Chris Finnamore, CFT
(506) 458-0649
ce@mcft.ca

For Office Use Only: ID _____

Payment | Method | Deposit # | Initial

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