

Workshop Information

Interested in increasing product quality and yield? In this value packed workshop, participants will apply wood based material science and machining principles to do just that. Learn how to reduce drying defects in lumber, minimize product failures do to dimensional change, increase machining quality, and increase product yield.

To maximize learning and hands-on experience, this class has a maximum capacity of 12 students.

Who Should Attend?

- Plant Managers
- Production Supervisor
- Quality Control Technicians
- Sales Representatives

Location

Northcentral Technical College Antigo Campus
Wood Technology Center of Excellence
312 Forrest Avenue, Antigo, WI, 54409



Instructor Information

Travis Allen
Instructor, Wood Science
Northcentral Technical College

Agenda

Monday, January 10 8:00 a.m. – 5:00 p.m.

Structure and Function of Wood

- Hardwoods vs. Softwoods
- Surfaces of wood: identification & significance
- Cellular make-up of wood
- Tree growth and wood production
- Characteristics that affect product quality

Moisture Relations and Physical Properties of Wood

- Calculating moisture content
- Appropriate use of moisture meters
- Steps to reduce drying stress and defects in lumber

Tuesday, January 11 8:00 a.m. – 5:00 p.m.

Moisture Relations and Physical Properties of Wood

- Calculating dimensional change in wood products
- Steps to reduce product failure from wood movement

Mechanical Properties of Wood Guiding Species Selection

Principles Impacting Machining Quality of Wood

- Basic tool geometry
- Tooling material and types of tooling
- Machining: surface quality and stock removal
- Grit sequencing for abrasives
- Steps to reduce machining defects

Wednesday, January 12 8:00 a.m. – 5:00 p.m.

Wood Adhesives Application

- Wood surface preparation
- Factors affecting bond strength
- Glue bond evaluation

The Impact of Yield on Profits

- 9 Variables that affect yield
- Overview of lumber grades and expected yields
- Yield calculations
- Steps to increase yield

Registration Form

Last Name _____ First Name _____ Middle Initial _____

Street Address _____ City _____ State _____ Zip code _____

Home Phone (____) _____ Birthdate ____/____/____ Email Address _____

I'm interested in the following classes (insert class number): _____, _____, _____, _____, _____, _____

Credit Card: _____ MasterCard _____ VISA _____ Credit Card Number: _____

Expiration Date: _____ Security Code: _____ Signature: _____

The following information is not required, but will help us identify your records should you need an official transcript of attendance. It is kept confidential. Aggregate data on race/ethnicity and high school attendance is used for state and federal funding purposes. Though your response is optional, it is very much appreciated.

Social Security Number _____ or Student ID Number _____

Race/Ethnicity: _____ American Indian _____ Asian _____ Black, not Hispanic _____ Hispanic _____ White, not Hispanic _____ Native Hawaiian/other Pacific Islander


Mail registration form with payment to: Northcentral Technical College, Attn: Continuing Education, 1000 W. Campus Drive, Wausau, WI 54401


Registration Information


\$375 per student

Fees include workshop material, reference binders and daily coffee and donuts.

How to Register

Mail  Send check or money order with completed registration form to:
Northcentral Technical College
Attn: Registration
1000 W. Campus Drive, Wausau, WI 54401

Online  https://ntcforms.formstack.com/forms/wood_workshop_2020

Phone  715.675.3331, option 1
Toll free 888.682.7144, Ext. 5861.

For More Information

Contact Continuing Education at 715.803.1034 or 888.682.7144, Ext.1034 or ce@ntc.edu

Hotel Information

Super 8 Hotel
715.623.4188

535 Century Avenue, Antigo

A room with two queen beds and light housekeeping services during the week. A breakfast consisting of cereal, breakfast sandwiches, oatmeal and pastries is provided.

Holiday Inn Express
715.627.7500

2407 Neva Road, Antigo

A single room with two queen beds for single or double occupancy. A full hot breakfast plus cereal, fruits and pastries is provided.

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Wausau, WI



Applied Wood Science
Workshop: Increasing
Product Quality and Yield

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Applied Wood Science Workshop: Increasing Product Quality and Yield



January 10-12, 2022 - Antigo, WI