## Wood Products Manufacturing Center for Excellence

Training Idahoans for Idaho Jobs


## Wood Product Manufacturing Center for Excellence

- 3 Industry Partners - 11 mills in northern Idaho
- 1406 jobs (combined)
- $\$ 607$ million annual revenue (combined)




## Wood Product Manufacturing Center for Excellence

## Industry needs

Replace an aging workforce

- 82\% of licensed log scalers are over age 50
- Young people not entering the industry
- Loss of knowledge and experience in skilled jobs


## High demand skill sets

- Automation requires new, advanced skills
- Lack of training opportunities
- 24\% projected growth

Lack of skills certification

- No industry standards
- Rural areas - high cost, low access to training

Low pass rates for state licensing

- Current scaling exam pass rate was $35 \%$



## Wood Product Manufacturing Center for Excellence

## Funding

- \$281,036 from WDTF grant
- \$93,678 from industry patners

Goals:

- 116 participants in 11 courses/3 skill areas
- Industry recognized credentials and licensing
- Job Advancement- living wage jobs

Job Skill Training:

- Log Scaling
- Programmable Logic Controllers
- Saw Filing
- Structured On The Job Training


## Log Scaling

Spring 2014 course:
11 participants

- 45\% pass 1st attempt



## State Licensing-industry recognized credential

Starting Wage \$14-\$17/hour<br>Increased to<br>\$18-\$19.65/hour

## Structured on the Job Training

- Trained Subject Matter Experts (SME's) key to effective On the Job training
- Spring 201411 SME completed course
- Second Class 22 September - 11 completed course
- Led to Promotions



## Lessons Learned

- Time in the log yard with hands on is key
- Printed copies of web material still works
- Early identification of students important to fill their production positions
- Choosing the right trainers just as important as the right students
- Trainers have to be given the time to train


## Look into Blackboard



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## Look into Blackboard

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(7) Lesson 4 Overview


## 47) Lesson 4 PowerPoint Presentation




* Gross Volume Handout at 0

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## (3) Idaho Log Scaling Manual 2008 Edition

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# Basics of Scribuer Log Scaling 

## Determining <br> Gross scale

## Scaling Cylinder

## TWO measurcharsh

determine the


## The scaling cylinder is a projected cylinder extending

 the scaling length of the log segment with identical diameters on both ends.


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## Scribner Log Rule Diagram

A series of $1^{\eta}$ thick boards was then drawn inside the circle with a $1 / 4^{\text {n }}$ allowance for saw kerf.

Allows for a full $4^{n}$ face on the side boards

Allows for 1" of waste for slabs and edgings.

1" Slab

## 1" Edging

## Scribner Log Rule Diagram

 calculated for each length and diameter.

Coconirıo Scribner decimal "C" Volume Table (Page 3)


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## Log Lengths



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Butc Logs

## Measure on the top

## To the shortest point on the butt where the scaling cylinder emerges.

## $16^{\prime} 6^{\prime \prime}$




## Wood Product Manufacturing Center for Excellence Successes

- Log Scaling class
- 11 new state licensed scalers
- Wage increases \$1-\$4/hour
- 10 currently enrolled
- SOJT class
- 22 trained supervisors
- Multiple promotions
- Wood Products COE Web site

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