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

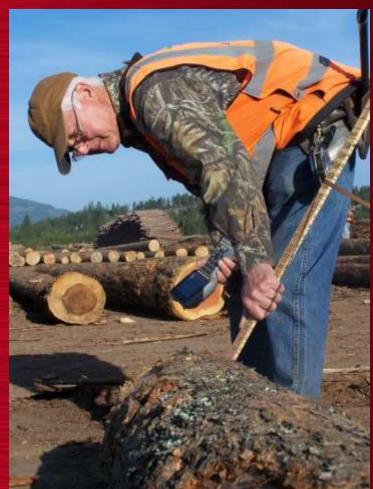
- Automation requires new, advanced skills
- Lack of training opportunities
- 24% projected growth

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:

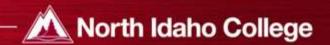
11 participants

- 45% pass 1st attempt
- 100% pass 2nd attempt

State Licensing-industry recognized credential

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





Structured on the Job Training

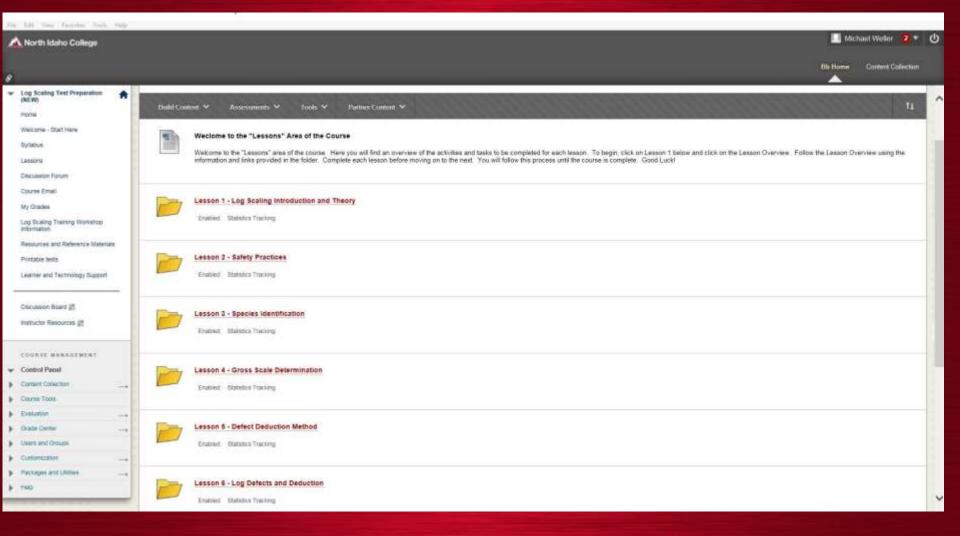
- Trained Subject Matter Experts (SME's) key to effective
 On the Job training
- Spring 2014 11 SME completed course
- Second Class 22 September -11 completed course
- Led to Promotions



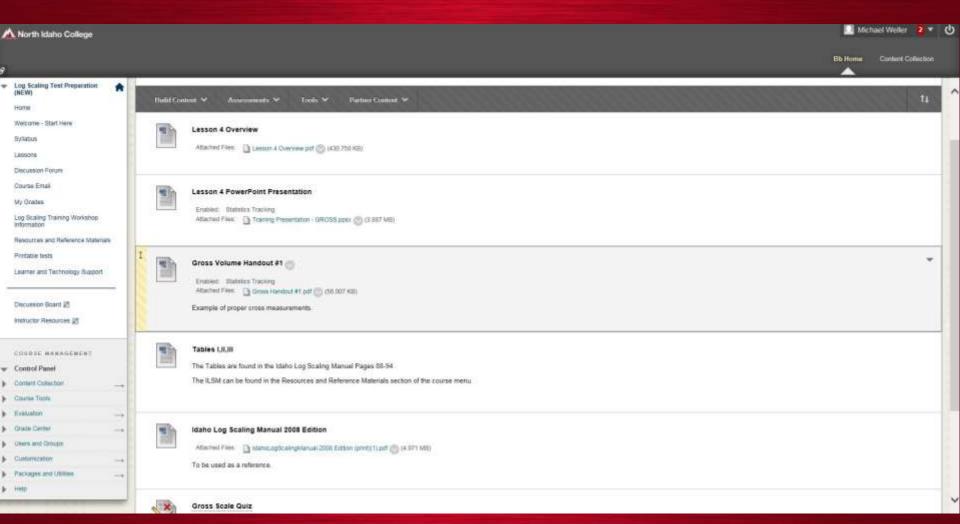
Lessons Learned

- 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

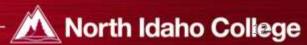


Look into Blackboard



Basics of Scribner Log Scaling

Determining Gross scale



Scaling Cylinder

Two measurements are required to determine the scaling cylinder of a log.

Scaling diameter

North Idaho College

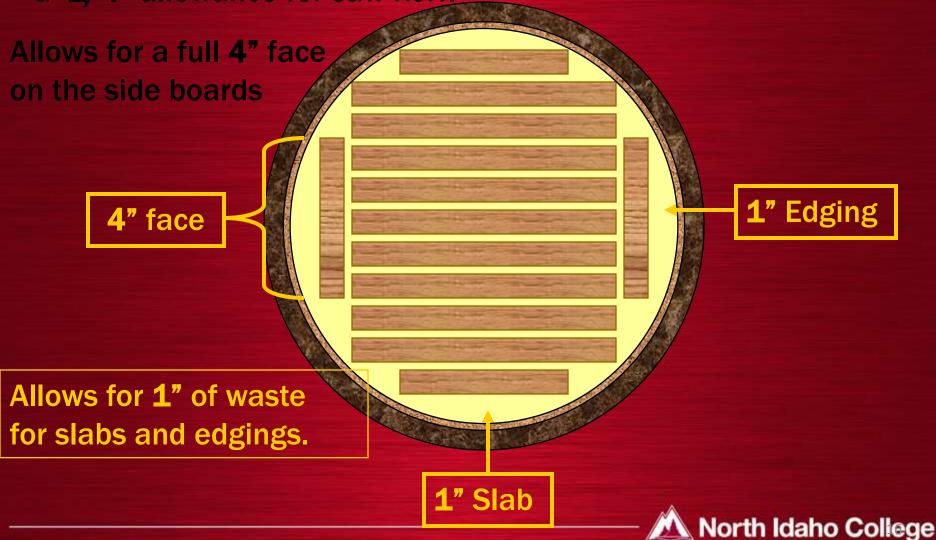
The scaling cylinder is a projected cylinder extending the scaling length of the log segment with identical diameters on both ends.





Scribner Log Rule Diagram

A series of 1" thick boards was then drawn inside the circle with a 1/4" allowance for saw kerf.



Scribner Log Rule Diagram

Board foot volumes are then calculated for each board within the circle.

Then rounded to the nearest ten board feet and the zero is dropped.

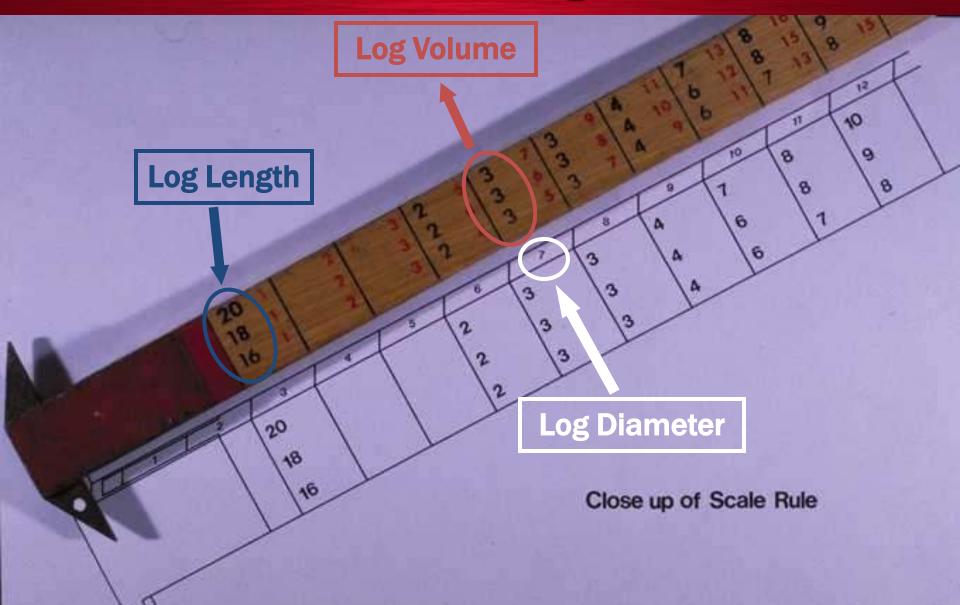
These volumes are then calculated for each length and diameter.



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

Diameter		Log Length (in feet)																
(in inches)	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
3 4 5		1	1	1	1 1	1	1	1	1	1 1 1	1 1 1	1 1 1		1 1 2	1 1 2	1 1 2	1 1 2	
6 7 8 9 10	1 1 1 1	1 1 1 1 1	1 1 1 1 2	1 1 1 2 2	1 1 1 2 3	1 1 1 2 3	1 1 2 3 3	1 2 2 3 3	1 2 2 3 3	1 2 2 3 4	1 2 2 3 4	1 2 2 3 5		2 3 3 4 6	2 3 3 4 6	2 3 3 4 6	2 3 3 4 7	
11 12 13	1 2 2 3	2 2 3 4	2 3 4 4	2 3 4 5	3 4 5 6	3 4 5 6	4 5 6 7	4 5 7 8	4 6 7 9	5 6 8 9	5 7 8 10	6 7 9 11		7 8 10	8 9 11	8 10 12	8 10 12	
(15)													14 0 board feet					
16 17 18 19 20	4 5 5 6 7	5 6 7 8 9	6 7 8 9 11	7 8 9 10 12	8 9 11 12 14	9 10 12 13 16	10 12 13 15 17	11 13 15 16 19	12 14 16 18 21	13 15 17 19 23	14 16 19 21 24	15 17 20 22 26	16 18 21 24 28	17 20 23 25 30	18 21 24 27 31	19 22 26 28 33	20 23 27 30 35	

Scribner log rule



Log Lengths



Idaho College

Second cut logs Short side to short side



Butt Logs

Measure from short side on the top

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





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
 - www.woodproductscoe.org



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