









### Sawblade Certificate

- 3. Student earns 10 points (2 points for each Level 2 achievement) as follows:
  - Level 2 on Jointer Edge jointing 1st edge
  - Level 2 on Table Saw Ripping
    Level 2 on Table Saw Edge
  - Level 2 on Pable Saw Luge
     rabbet/single blade
     Level 2 on Portable Hand Sander
  - Level 2 on Portable Hand Sand
     Sand solid lumber
  - Level 2 on Drill Press Drill holes to specified location and depth



# Sawblade Certificate

- 4. Student scores 80% on the 40-question<u>WCA</u> <u>Sawblade online test</u>.
- 5. Educator records successful assessments Points in the WCA Registry, which triggers an automated notice to WCA.
- 6. Student receives Sawblade Certificate, signed by WCA President



### Green Credential Certificate

1. Earn 20 More Points, for a total of 30.

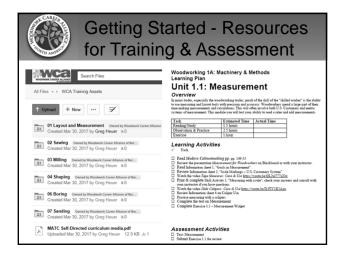
- 2. Record 800 Hours in school or at work since enrollment in WCA Program.
- 3. Get Pin, Patch, and Certificate.

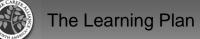


### Blue Credential Certificate

- 1. Earn 30 More Points, for a total of 60.
- Record 800 Hours in school or at work since earning the Green Credential, for a total 1,600 hours.
- 3. Pin, Patch, and <sup>7</sup> Certificate.







#### Woodworking 1A: Machinery & Methods Learning Plan

### Unit 1.1: Measurement

In many trades, especially the woodworking trades, much of the skill of the "skilled worker" is the ability to use measuring and layout tools with precision and accuracy. Woodworkers spend a large part of their time making measurements and calculations. This will often involve both U.S. Customary and metric systems of measurement. This module you will test your ability to read a ruler and add measurements.

Task	Estimated Time	Actual Time	
Reading/Study	1.5 hours		
Observation & Practice	2.5 hours		
Exercise	1 hour		
9			
3			WOODWORK CAREER ALLIANC

### The Learning Plan

#### Learning Activities

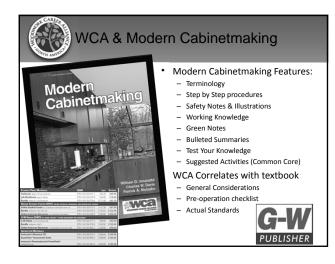
Task

10

- Read Modern Cabinetmaking pp. pp. 149-55
   Review the presentation Measurement for Woodworkers on Blackboard or with your instructor.
   Read Information sheet 1, "Goals in Measurement"

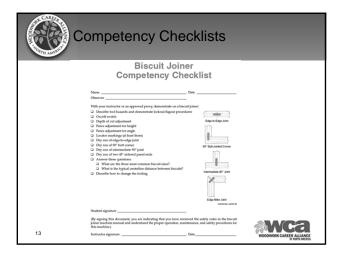
- Review Information Succ 17, Owars in Plasmententian
   Review Information sheet 2, "Scale Markings U.S. Customary System"
   Watch the video *Tape Measures: Care & Use https://youtu.be/QL2ul777qXw* Print & complete Skill Activity 1, "Measuring with a rule"; check your answers and consult with
- Vinit & Grupper Vinit States (Section 2017)
   Vinit & Grupper Vinit States (Vinit States)
   Watch the video Slide Calipers: Care & Use https://youtu.be/D-FIY1K2Azo
   Review Information sheet 4 on Caliper Use

- Review minimutor sheet 4 on Carper Ose
   Practice measuring with a calipers
   Complete the test on Measurement
   Complete Exercise 1.1 Measurement Widget

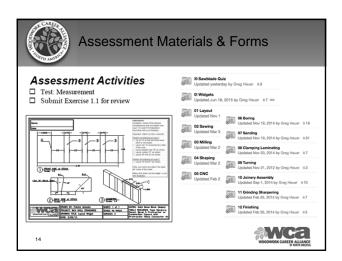




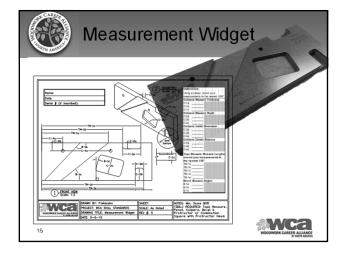




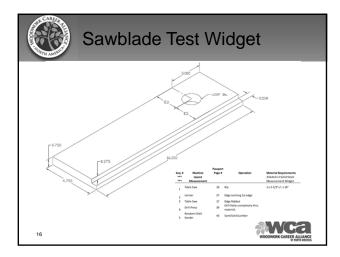




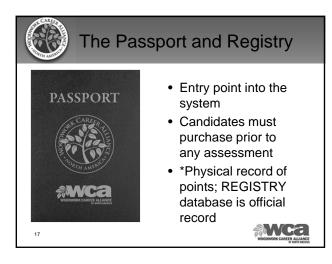






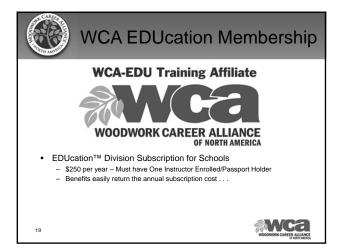


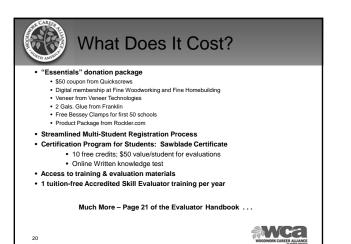


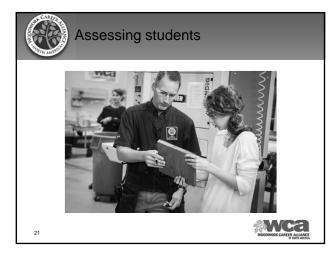














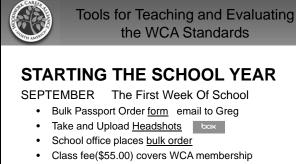
### Tools for Teaching and Evaluating the WCA Standards

### **TEACHING THE WCA STANDARDS**

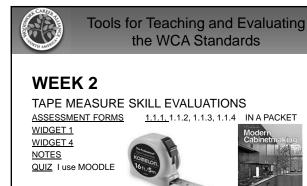
GETTING YOUR STUDENTS TO THE: "SAW BLADE AWARD" WHAT !, WHEN ! AND HOW !

### INCLUDING VIDEO ASSESSMENT

MCa

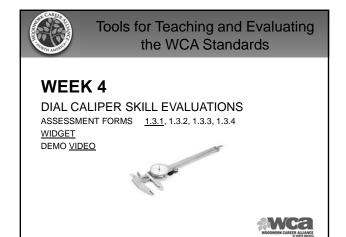


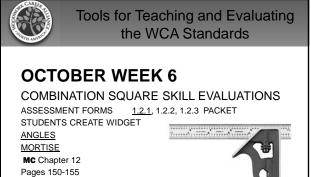
- School <u>Subscription</u> \$250.00 Perkins Funds?
- Why?? <u>BENEFITS!</u> Real Tools & Materials



Don't wait for passports







SIGN UP FOR BENEFITS 10/31 DEADLINE

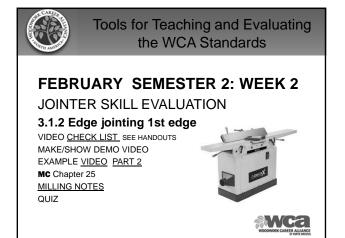


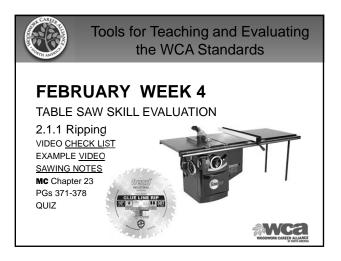


### NOVEMBER: RECORDING RESULTS

KEEP A LIST AS YOU GO DO THEM IN BULK ASSESSMENT CREDITS USING <u>REGISTRY</u>









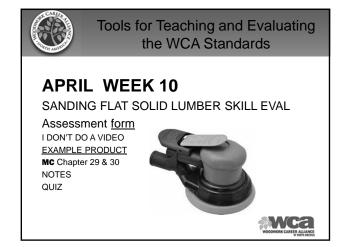
## Tools for Teaching and Evaluating the WCA Standards

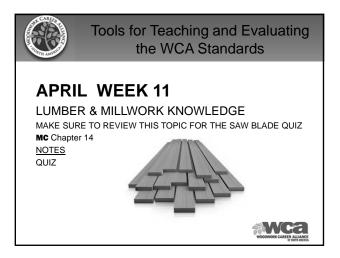
### MARCH WEEK 6

TABLE SAW SKILL EVALUATION 2.1.4 EDGE RABBET W/ SINGLE BLADE or 2.1.5 EDGE RABBET WITH DADO SET

VIDEO <u>CHECK LIST</u> EXAMPLE <u>video</u>









## Tools for Teaching and Evaluating the WCA Standards

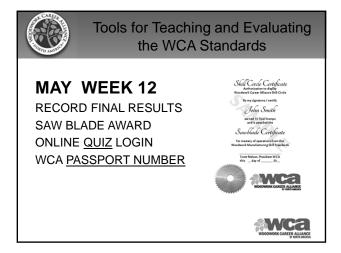
### **APRIL WEEK 12**

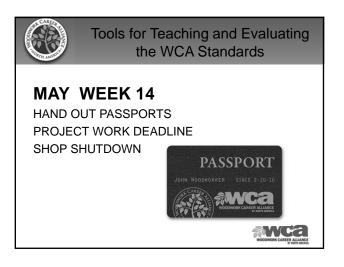
BORING SKILL EVALUATION

6.1.1 Drill holes to specified location and depth

CREATE DEMO VIDEO MAKE VIDEO <u>CHECK LIST</u> NOTES MC Chapter 27 QUIZ









Tools for Teaching and Evaluating the WCA Standards

### JUNE

GET THE WCA TEACHER CHECK LIST <u>HERE</u> REFINE CURRICULUM DETAILS MAKE MORE DEMO VIDEOS GENERATE NEEDS LIST WISH LIST



### Tools for Teaching and Evaluating the WCA Standards

### JULY

MAKE MORE DEMO VIDEOS PURCHASING ASSESSMENT CREDITS BUY THINGS ON PRIORITY NEEDS LIST EDUCATION MEMBERSHIP STARTS OVER IMPORVEMENTS AND REPAIRS MAKE A TO DO LIST FOR AUGUST INSERVICE

MCE



Tools for Teaching and Evaluating the WCA Standards

### AUGUST

MAKE MORE DEMO VIDEOS EDIT SYLLABI PREPARE MEDIA MOODLE, VIDEOS, PACKETS, DOCUMENTS FINAL REPAIRS AND SET-UP FOR DAY 1 **GOOD LUCK!** 



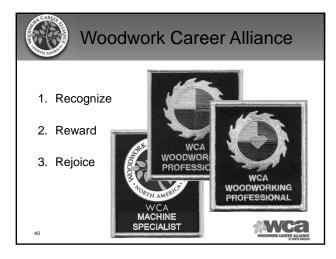
## Tools for Teaching and Evaluating the WCA Standards

Scan the QR code or EMAIL FOR A LINK TO MY PRESENTATION christen@westosha.k12.wi.us





PATRICK MOLZAHN WCA AWFS ADRIA TORREZ







### Awards Celebration

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Skill Circle Certificate

Jose Esparza

earned 10 Points and is awarded the

2000000000000000

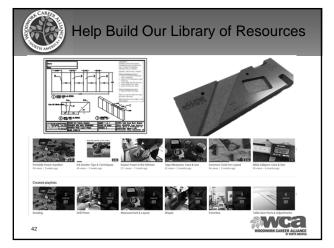
noblade Certificate

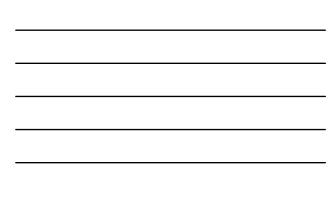
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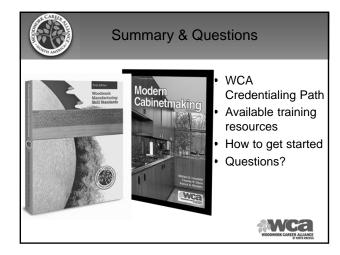
- 1. Award the Certificates in a public ceremony.
- 2. Be SURE your administrators and guidance counselors get the good news
- 3. Share the names and pictures with the local newspaper and parents.
- 4. Share news with WCA.

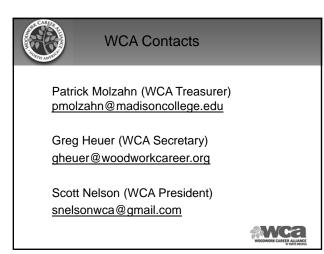












Drill Press Demonstration check list:

# Prepare ahead of time by having a $\frac{3}{4}$ " thick board marked for a 2" x 2" hole location from any corner and a 1" diameter forstner bit ready to go.

Demonstrate on a Drill Press: OR MAKE A VIDEO

- Describe lock-out/tag-out procedure.
- Describe machine hazards.
  - Getting wound in
  - Getting hit by spinning material
- Demonstrate installing a bit.
- Explain why drill press needs adjustable speeds
  - Slow for large bits
  - Medium for medium bits
  - Fast for small bits
- Show table height adjustment
- Point out Tilting table adjustment
- Setup the fence and use of the stop for repeat boring set at 2" x 2" mark
- Show use of clamps for boring small pieces
- Use of quill lock to zero on board
- Depth stop adjustment to  $\frac{1}{2}$ " -use a  $\frac{1}{2}$ " spacer
- Drill a hole 2" x 2" from the corner of a board that is 1/2" deep.
- Remove bit

What is the proper speed selection for: look these up and fill in!

¼" dia. twist drill:	
1-1/2" dia. Forstner cutter:	
3" dia. circle cutter:	

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# 3.1.2 Edge jointing 1st edge VIDEO ASSESSMENT

\*\*\*Make sure you wear PPE and follow all safety rules during the entire demonstration!!!!!!!!!

### PRE-VIDEO PREP

- 1. REMOVE GUARD AHEAD OF TIME
- 2. DUST COLLECTION ON
- 3. DUST COLLECTION HOSE DISCONNECTED AND BLAST GATE CLOSED
- 4. Start with L-O,T-O drum on cord plug
- 5. HAVE A 2 BOARDS READY both WITH ONE FACE JOINTED FLAT 4-8" W x 24"+ L
- 6. HAVE NEEDED ITEMS ON HAND
  - a. Square & Thickness guage
  - b. Allen wrench for guard

- SWEEP THE MACHINE CLEAN
- OPEN DUST COLLECTION BLAST GATE
- CONNECT HOSE TO MACHINE
- Inspect blades show close-up in video
- REMOVE Lock-out, tag-out
- SET DEPTH INFEED TABLE(using square and metal 1/32" guage)
- adjust fence to square
- Show how to advance the fence back and forth over the blade then set it.
- Install the guard and show it working correctly
- Drop the outfeed slightly below normal height
- Joint first six inches of the face of a prepared board
- SET HEIGHT OUTFEED TABLE using the board method
- Determine Grain direction of the board
- Joint the best edge going with the grain
- Examine the cut for smooth, straight, square

UPLOAD VIDEO to YOU TUBE

LABEL THE JOINTED EDGE IN MARKER WITH <u>FULL NAME</u> PRINT BRING ME THE BOARD AND FORM TO COMPLETE THE ASSESSMENT KEEP THE BOARD FOR THE NEXT ASSESSMENT

WCA	Level	Торіс	URL (www.youtube.com/Pmolzahn)	Video Length
1.1.0	Sawblade	Slide Calipers: Care & Use	https://youtu.be/D-FIY1K2Azo	5:09
1.1.1	Sawblade	Tape Measure: Care & Use	https://youtu.be/QL2ul777qXw	6:10
1.1.2	Sawblade	Common Tools for Layout	https://youtu.be/DNAeH3oGQm0	8:35
2.1.0	Sawblade	Table Saw Parts	https://youtu.be/TbVKPXAWxjM	4:09
2.1.1	Sawblade	Table Saw: Ripping	https://youtu.be/3JywQm6ZukU	3:49
2.1.3		Table Saw: Crosscutting	https://youtu.be/BnNLRz2E6wQ	3:43
2.1.4	Sawblade	Table Saw: Rabbetting	https://youtu.be/jRltDwqkPJs	2:29
3.1.0	Sawblade	Jointer - Parts & Safety	https://youtu.be/ob3V5SVrqAw	9:19
3.1.1	Sawblade	Jointer - Face Jointing	https://youtu.be/epapUVDIDf4	5:17
3.1.2	Sawblade	Jointer - Edge Jointing & Rabbeting	https://youtu.be/9hAZpWsjUyo	4:53
3.1.3	Sawblade	Jointer - Beveling, Chamfering, Tapering	https://youtu.be/sHuSht2EtsU	4:58
3.2.0	Sawblade	Planer - Parts & Safety	Currently in production	
3.2.0	Sawblade	Planer - Planing for Thickness	Currently in production	
3.2.0	Sawblade	Planer - Tapering, curves	Currently in production	
6.1.0		Drill Press Parts & Safety	https://youtu.be/YmCTG-UZHDU	2:27
6.1.1	Sawblade	Drill Press: Setting Up & Making Adjustments	https://youtu.be/mSnSah0ouKg	3:00
7.4.0		Portable Power Sander Overview	https://youtu.be/Hf24xBJ0Og4	6:40
7.4.1	Sawblade	DA Sander Tips & Techniques	https://youtu.be/HcXNsEDr-Ys	5:32
2.1.10		Table Saw: Tapering	https://youtu.be/RTpy-z99zVI	3:03
2.1.2		Table Saw: Narrow Ripping	https://youtu.be/-oajYsw1dOQ	2:14
2.1.5	Sawblade	Table Saw: Dado/Rabbet	https://youtu.be/OeBRzLdvREY	1:33
2.1.6		Table Saw: Groove, Plough, Dado	https://youtu.be/xPMbpkEGnTE	5:04
2.1.7		Table Saw: Mitering	https://youtu.be/hyvg9BQL-PU	2:12
2.1.8		Table Saw: Beveling	https://youtu.be/e8TtFTK1z6w	1:41
2.1.9		Table Saw: Chamfering	https://youtu.be/62K-V7NI6zs	2:06
Yes		Table Saw: Tenoning	https://youtu.be/OGdBaZ1yZcQ	4:59
Yes		Table Saw: Summary of operations	https://youtu.be/j0MoalS-K8A	:33
4.0.0		Shaper intro	https://youtu.be/T4H9atI_JYk	1:07
4.0.1		Shaper: Parts & Safety	https://youtu.be/3x49k1k2vjk	9:36
4.0.2		Shaper: Tooling & Accessories	https://youtu.be/y6kQKVI6l84	7:25
4.0.3		Shaper: Setting up & Making Adjustments	https://youtu.be/QNgrd5NYwDo	5:36
4.0.4		Shaper: Operations	https://youtu.be/ifYuumL0k8E	9:01