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| **Woodworking 1A: Machinery & Methods**  |

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| **Learning Plan**  |

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| **Unit 1.1: Measurement** |

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| ***Overview***  |
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| 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.

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| **Task** | **Estimated Time** | **Actual Time** |
| Reading/Study | 1.5 hours |  |
| Observation & Practice | 2.5 hours |  |
| Exercise | 1 hour |  |

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| ***Learning Activities***

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✓ **Task** |  |
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| * Read ***Modern Cabinetmaking*** ***(6th edition)*** pp. 160-66
* Review the presentation *Measurement for Woodworkers* on Blackboard or with your instructor.
* Read Information sheet 1, "Goals in Measurement"
* Review Information sheet 2, "Scale Markings – U.S. Customary System"
* Watch the video *Tape Measures: Care & Use* <https://youtu.be/QL2ul777qXw>
* Review videos (if needed):
	+ - [Adding Fractions](https://madisoncollege.yuja.com/V/Video?v=1373748&node=5122329&a=1627307459&autoplay=1) (5:27)
		- [The Super Inch – Part A](https://madisoncollege.yuja.com/V/Video?v=1370549&a=106116780) (3:57)
		- [The Super Inch – Part B](https://madisoncollege.yuja.com/V/Video?v=1370720&a=1285994239) (5:33)
* Print & complete Skill Activity 1, "Measuring with a rule"; check your answers and consult with your instructor if you have questions.
* Review the presentation *Measuring with Slide Calipers* on Blackboard or with your instructor.
* Watch the video *Slide Calipers: Care & Use* <https://youtu.be/D-FIY1K2Azo>
* Review Information sheet 4 on Caliper Use
* Practice measuring with a calipers
* Complete the test on Measurement
* Complete Exercise 1.1 – Measurement Widget (Note: You need to be able to measure angles for this activity. This skill is covered in Module 1.2)
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***Assessment Activities***

* Test: Measurement
* Submit Exercise 1.1 for review