

# Manufacturing Processes - Woods

Apply safety principles, practices, philosophy, and guidelines to the work environment. [STS.HS.23.1](#)

- a** Complete applicable safety assessment with 100% accuracy. [STS.HS.23.1.A](#)
- b** Employ appropriate Personal Protective Equipment (PPE) while in the lab setting. [STS.HS.23.1.B](#)
- c** Employ eye protection in compliance with Neb. Rev. Statute 79-715. [STS.HS.23.1.C](#)
- d** Employ the safe application of tools and machines. [STS.HS.23.1.D](#)
- e** Explain the main hazards that are possible in the lab setting. [STS.HS.23.1.E](#)
- f** Demonstrate proper handling and storing of materials and chemicals. [STS.HS.23.1.F](#)

Identify career opportunities in woodworking areas. [STS.HS.23.2](#)

- a** Identify responsibilities and characteristics of professionals in a woods industry. [STS.HS.23.2.A](#)
- b** Describe work behaviors needed to be employable in a woods industry. [STS.HS.23.2.B](#)
- c** Identify the training, education, certification, and licensing requirements for various careers in a woods industry. [STS.HS.23.2.C](#)
- d** Identify high wage, high demand, and high skill careers in woodworking. [STS.HS.23.2.D](#)

Demonstrate accurate measurements using measurement tools used in woods. [STS.HS.23.3](#)

- a** Identify types of woods measurement tools. [STS.HS.23.3.A](#)
- b** Explain woods measurement tools by use. [STS.HS.23.3.B](#)
- c** Demonstrate the accurate use of woods measurement and layout tools to 1/16" precision. [STS.HS.23.3.C](#)

Solve math functions and formulas to complete woods manufacturing tasks. [STS.HS.23.4](#)

- a** Identify whole numbers, decimals, fractions, and complex numbers. [STS.HS.23.4.A](#)
- b** Apply basic arithmetic operations used in woods manufacturing. [STS.HS.23.4.B](#)

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**c Solve decimal/fraction conversions used in woods manufacturing.** STS.HS.23.4.C

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**Explain the use of woods manufacturing communications.** STS.HS.23.5

**a Define woods manufacturing terminology.** STS.HS.23.5.A

**b Explain the language of wood manufacturing.** STS.HS.23.5.B

**c Explain business and interpersonal communication appropriate to the work in the woods manufacturing environment.** STS.HS.23.5.C

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**Determine the materials, tools, machines, and processes required to manufacture a woods product.** STS.HS.23.6

**a Identify the characteristics, properties, and origin of diverse woods.** STS.HS.23.6.A

**b Differentiate additive and subtractive woods manufacturing.** STS.HS.23.6.B

**c Identify woods fasteners by their industry standard applications.** STS.HS.23.6.C

**d Determine feed rate and/or speed settings for a wood material and process.** STS.HS.23.6.D

**e Explain the operation and application of common woods industry chemicals.** STS.HS.23.6.E

**f Determine the correct tools, machines, and processes needed to produce a specific wood product.** STS.HS.23.6.F

**g Estimate the amount of materials and supplies needed to manufacture a wood product.** STS.HS.23.6.G

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**Manufacture a product that uses wood as its primary material.** STS.HS.23.7

**a Interpret plans, drawings, and specifications to process wood materials.** STS.HS.23.7.A

**b Employ the standard operation and application of tools and machines along the wood manufacturing process.** STS.HS.23.7.B

**c Employ the process of applying the correct types of materials, fasteners, adhesives, and finishes required to manufacture a specific wood product.** STS.HS.23.7.C

**d Critique a finished product.** STS.HS.23.7.D

**e Appraise the manufactured product.** STS.HS.23.7.E