

# Manufacturing Production - Woods

Apply safety principles, practices, philosophy, and guidelines to the work environment. [STS.HS.26.1](#)

- a** Complete applicable safety assessment with 100% accuracy. [STS.HS.26.1.A](#)
- b** Employ appropriate Personal Protective Equipment (PPE) while in the lab setting. [STS.HS.26.1.B](#)
- c** Employ eye protection in compliance with Neb. Rev. Statute 79-715. [STS.HS.26.1.C](#)
- d** Employ the safe application of tools and machines. [STS.HS.26.1.D](#)
- e** Explain the main hazards that are possible in the lab setting. [STS.HS.26.1.E](#)
- f** Demonstrate proper handling and storing of materials and chemicals. [STS.HS.26.1.F](#)

Execute accurate measurements using woodworking measurement and layout tools. [STS.HS.26.2](#)

- a** Identify types of woodworking measurement and layout tools. [STS.HS.26.2.A](#)
- b** Categorize woodworking measurement and layout tools by use. [STS.HS.26.2.B](#)
- c** Demonstrate the accurate use of measurement and layout tools to 1/16" precision. [STS.HS.26.2.C](#)

Solve math functions and formulas to complete woodworking job/workplace tasks. [STS.HS.26.3](#)

- a** Identify whole numbers, decimals, fractions, and complex numbers. [STS.HS.26.3.A](#)
- b** Apply basic arithmetic operations. [STS.HS.26.3.B](#)
- c** Solve decimal and fraction conversions. [STS.HS.26.3.C](#)

Identify career opportunities in the wood manufacturing industry. [STS.HS.26.4](#)

- a** Describe work behaviors needed to be employable. [STS.HS.26.4.A](#)
- b** Describe appropriate work behavior that meets or exceeds wood manufacturing industry standards. [STS.HS.26.4.B](#)
- c** Identify the education, certification, or licensure required in wood manufacturing careers. [STS.HS.26.4.C](#)

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**d Identify the value that may be added to the community by wood manufacturing professionals.** STS.HS.26.4.D

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**e Identify the industry standard compensation for a wood manufacturing professional.** STS.HS.26.4.E

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**Demonstrate the use of wood manufacturing communications.** STS.HS.26.5

**a Define wood manufacturing terminology.** STS.HS.26.5.A

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**b Estimate manufacturing timelines based on criteria.** STS.HS.26.5.B

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**c Utilize business and interpersonal communication appropriate to the work environment.** STS.HS.26.5.C

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**Select the materials, tools, machines, and processes required to manufacture a wood product.** STS.HS.26.6

**a Identify the origins, characteristics, and properties of softwoods.** STS.HS.26.6.A

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**b Identify the origins, characteristics, and properties of hardwoods.** STS.HS.26.6.B

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**c Categorize fasteners by their industry standard applications.** STS.HS.26.6.C

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**d Differentiate between various types of mechanical and chemical fasteners.** STS.HS.26.6.D

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**e Estimate amount of materials and supplies needed for a wood product.** STS.HS.26.6.E

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**f Explain the operation and application of common industry finishes.** STS.HS.26.6.F

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**g Assess potential environmental and health impacts of using specific materials or processes.** STS.HS.26.6.G

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**h Determine the correct tools and machines needed to produce a specific wood product.** STS.HS.26.6.H

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**Manufacture a production level product that uses wood as its primary material.** STS.HS.26.7

**a Interpret plans, drawings, and specifications to process materials.** STS.HS.26.7.A

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**b Coordinate the standard operation and application of tools and machines along the manufacturing process.** STS.HS.26.7.B

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**c Plan and apply the type of materials, fasteners, adhesives, and finishes required to manufacture a specific product.** STS.HS.26.7.C

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**d Critique a finished product.** STS.HS.26.7.D

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**e Appraise the manufacturing process for streamlining opportunities.** STS.HS.26.7.E

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