

**Industrial Technology
Hartley-Melvin-Sanborn CSD
Course Benchmarks-Woods**

Standards and Benchmarks

Standard I: Understand and demonstrate planning for working projects.

Visualize an idea for a project.

Estimate costs for a proposed project.

Read and draft working drawings.

Develop a material list.

Demonstrate mathematical skills in figuring board feet and final costs.

Develop a plan of procedure.

Standard II: Understand the planning and operating procedure of a manufacturing system.

Explain how Just-In-Time manufacturing has changed industry.

Relate how management styles affect production.

Identify innovations that have changed manufacturing.

Identify elements of production systems.

Explain how world trade has affected manufacturing.

Standard III: Understand and demonstrate the use of materials in manufacturing.

Identify various commonly used woods.

Identify various manufactured wood products.

Differentiate between hardwoods and softwoods.

Identify various fasteners used for woodworking.

Explain the qualities and characteristics of various woodworking materials.

Identify common grades and sizes of rough and dimensional lumber.

Demonstrate skills for conservative use of rough stock.

Standard IV: Understand and demonstrate use of woodworking tools.

Demonstrate safe and proper use of hand tools.

Demonstrate safe and proper use of power tools and machines.

Explain safety rules and procedures for specific tools and machines.

Demonstrate set-up procedures for specific machines.

Choose most appropriate tool or machine for a task or operation.

Demonstrate clean-up procedures for tools and machines.

Identify maintenance procedures for tools and machines.

Identify parts of tools and machines.

Standard V: Demonstrate self-evaluative skills.

Relate how procedural planning affects outcome.

Identify missteps in production.

Identify mistakes in measurement.

Explain how mistakes occurred with use of tools and machines.

Identify mistakes in finishing.