

Carpenters are involved in many different kinds of construction, from the building of highways and bridges to the installation of kitchen cabinets. This course will prepare students for a career in the building trades through a combination of classroom theory and hands-on experience.

Students will gain experience using hand tools,

portable power tools, and other equipment commonly used in carpentry along with using a variety of materials including lumber, panel products, roofing materials, fasteners and hardware. Students will develop the skills needed for rough framing, roof framing, and exterior and interior finish work. In addition, students will gain experience in blueprint reading, math, and estimating.



CAREER OPPORTUNITIES

- Assembler
- Cabinetmaker
- Carpentry Foreman
- Concrete Carpenter
- Construction Superintendent
- Construction Worker
- Foreman
- Framer
- Production Worker
- Painter
- Drywall Installer



POST-SECONDARY EDUCATION OPPORTUNITIES

- Alfred State
- Monroe Community College
- Apprenticeship Programs/ Training in a many construction unions including Carpenters Local #276, Laborers Local #435, and Finishing Trades District Council #4



PROGRAMS OF STUDY

FOUNDATIONAL COURSES

CTE Foundations: Construction

9th Grade // 1 CTE Credit

Career Research and Exploration Safety, Tools, and Materials Basic Construction Skills

Introduction to Construction & Design

10th Grade // 2 CTE Credits

Rotation of Experiences in Carpentry

Masonry, Electrical, and Computer Aided Design &

Drawing (CADD)

CAREER MAJOR COURSES

Carpentry I

11th Grade // 2 CTE Credits

Understand Floor Framing
Cut and Assemble a Floor Frame
Understand Rough wall Framing
Identify the Components of a wall
Understand Rough Roof Framing
Understand Wall and Ceiling Systems

Carpentry II

12th Grade // 2 CTE Credits

Use and Maintain Hand Tools
Use and Maintain Power Tools
Identify Wall Framing Members
Lay Out and Build a Wall
Cut and Install Ceiling Joists
Identify Roof Framing Members
Lay Out and Cut Rafters
Lay Out and Build Stairs
Lay Out, Cut, and Install Drywall
Identify Common Materials used for Sheathing Walls
Describe the Correct Procedure for Assembling an
Exterior Wall



EMPLOYABILITY PROFILE:

The Proficient Carpentry Student will...

- Demonstrate employability skills that will help them get a job and meet employer's professional expec-tations.
- Demonstrate academic knowledge and skills that meet postsecondary requirements.
- Consistently demonstrate safe practices and healthy relationships.
- Properly select, use, store, and maintain all tools and equipment

- Effectively read a variety of materials and communicate in a variety of situations.
 - Accurately solve mathematical calculations, and apply geometric concepts, in context.
 - Accurately measure within industry-standard tolerances.
 - Demonstrate grit. Persevere through challenges and not give up.
 - Read and interpret blueprints.
 - Construct concrete forms based on New York State building code.

- Layout and install floor joists and subfloor according to a blueprint.
- Construct a framed wall including window and door openings based on a blueprint.
- Construct a set of stairs based on New York State Building Code
- Layout, cut, and install a rafters for a specific application.
- Install and finish drywall to industry standards.

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