



A good career is **built** on a solid foundation!

Growth in the service industry has resulted in greater demand for skilled construction workers. Become familiar with the tools used in commercial construction as well as the materials used by builders, including lumber, concrete, drywall, roofing, fasteners and a wide variety of hardware. Over the course of a two-year program, students will tackle numerous hands-on projects, including full construction of a residential building. Qualifying students will have the opportunity to earn enhanced eligibility toward a five-year apprenticeship with the Empire State Regional Council of Carpenters Apprenticeship Program.



Advanced college/trade school credit is available to qualifying students from the following institutions:



COURSE TITLE: **CARPENTRY/RESIDENTIAL CONSTRUCTION AND HOME IMPROVEMENT**

COURSE DESCRIPTION

The carpentry program is a combination of hands-on skill development and technical training in order to prepare students for entry-level employment or higher in residential construction, home improvements and related fields. Students will actively build and/or renovate a three bedroom, Energy Star® rated ranch on-site using Brookhaven Town and Energy Star® building codes. Both renovation and alteration of existing residential structures are taught, and students evaluate their own work and keep an active portfolio as well as a notebook.

Students will take the OSHA-10 course in their first year of study with the goal of obtaining the OSHA-10 card. Second-year students will take the OSHA-30 course as well.

COURSE CONTENT

Floor Framing and Sub Flooring	Drywall and Interior Trim to Include Spackle and Tape (stilt work)
Wall Framing	Soffits and Fascias
Roof Framing, Skylights	Replacing Windows and Doors
Sheathing, Siding and Roofing	Scaffolds and Ladder Safety
Re-Siding and Re-Roofing	Door and Window Installation
Building Trusses	

EDUCATIONAL OPPORTUNITIES

Advanced College Standing	Articulation Agreement with Carpenter's Union
Associate Degree/Construction	Baccalaureate Degree/Architecture

CAREER OPPORTUNITIES

Carpenter, Apprentice, Helper	Dock Builder	Taper/Spackler
Lumber Yard Person	Mill Person	Estimator
Roofer	Flooring Installer	Drywall Installer
Siding Mechanic	Framer	Landscaper/Carpenter
Truss Fabricator	Exterior/Interior Trimmer	Home Improvement Contractor

SUGGESTED SUPPORTIVE COURSES

Algebra, Business, Mechanical Drawing, Technology

ADDITIONAL INFORMATION

COSTS	Approximately \$250 personal tools, work shoes and work jeans
LENGTH OF COURSE.....	2 years
LOCATION	Gary D. Bixhorn Technical Center Southampton High School (a.m. only)
CTE/ACADEMIC CREDIT:.....	Please see chart on pages 4 and 5 for updated details
INDUSTRY CERTIFICATION:	National Center for Construction Education and Research (NCCER) National Registry, OSHA-10, OSHA-30

Architecture and Construction

- Heating, Ventilation and Air Conditioning (HVAC) (BTC, MTC, WTC)
- Introduction to HVAC (ICC)
- Carpentry, Residential Construction and Home Improvement (BTC)
- Facilities Maintenance (ICC)
- Plumbing and Heating (BTC)
- Electrical Trade and Alternative Energy (BTC, MTC, WTC)
- Carpentry (ICC, WTC, Southampton HS)
- Carpentry Exploration (IAC)



Quote from program graduate –

"You learn how it will be in the real world."

