

# Building Construction Technology

Brick Center

2 Year Program

Tim Smith

**T**hroughout this two-year course, students will learn the basic fundamentals of carpentry, as well as more in depth topics such as blueprint reading/design, interior and exterior finish carpentry, scaffolding erection and much more. Residential carpentry topics including, layout and construction of the floor frame, wall frame layout and construction, rafters, stairs, window and door installation, siding, and interior drywall finishing are key components of the class. Other topics include several smaller-based projects to introduce the student to hand tools, power tools, stationary power tools, and comprehension of plan reading. Students may also earn their safety certificate through successful completion of OSHA-10. Students may also participate in cooperative education opportunities earning course credits while working in the field. Other incentives include opportunities to apply to local unions and students also have the opportunity to potentially earn college credits through successful completion of the YTTW career connections pre- apprenticeship program sponsored by the North East Carpenters Union. With safety, hands-on experience, and professionalism, we train our students to complete tasks in the carpentry field proudly and proficiently.

## Skills You Will Learn

- Estimate material requirements
- Prepare building sites
- Build and install foundation forms
- Install rough framing and roof components
- Install exterior and interior finishes
- Assemble and construct stairs
- Install climbing equipment and work platforms
- Safety regulations and requirements
- Computer use to aid designing and estimating

## Preferred Skills for Career Field:

*You should prefer:*

- Working with your hands
- Precision and detail work
- Seeing the results of your own work

*You should be able to:*

- Solve simple math problems quickly
- Read and interpret working drawings
- Use a computer for applications in the construction industry

## Related Job Titles

Contractor  
Construction Inspector  
Form Builder

## Career Ladder

Most start as apprentices or helpers and advance to journeymen with experience and training. With additional education, many move on to become supervisors or contractors.

## Continuing Education

Ocean County Vocational Technical School  
Ocean County College  
Pennsylvania College of Technology  
New England Institute of Technology  
Carpenter's Local 2018 Apprenticeship

**An articulation agreement exists between the North East Carpenters Apprentice Fund and OCVTS for interested students.**