

Trumbull Career and Technical Center

Carpentry Program



Carpentry Syllabus

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Welcome

On behalf of the entire administration, faculty and staff, welcome to Trumbull Career and Technical Center and welcome to the carpentry program.

The carpentry program is geared towards today's standards in the carpentry industry. When entering this program, students are given the opportunity to learn the current information on carpentry related equipment, materials and techniques used in the carpentry industry today.

I am excited to share my knowledge with every student. My goal is to allow students to explore, experience and prepare for a career in carpentry, through a safe, equal, and structured environment. In doing this, the students will see all aspects of the carpentry trade and will be able to evaluate each area to see which one suits them best while gaining experience in all areas of construction. Students will also learn career exploration, problem solving skills, work ethics and employability skills in lab as well as through job shadowing. I believe that it should be and will be a great learning experience for both of us.

Welcome,

General Shop Safety

Safety involves those activities that seek either to minimize or eliminate hazardous conditions that can cause bodily injury.

Trumbull Career and Technical Center has set specific rules and regulations to ensure the safety of all students and staff. These rules must be followed at all times. In addition to the school rules are the General Carpentry lab rules that are organized specifically for the carpentry program.

- 1) Obey school rules. In the carpentry lab, all school rules apply.
- 2) Safety glasses. Safety glasses must be worn at all times, even during cleanup at the end of the period. There is zero tolerance on this rule. Students will be given one warning, after that, they will not work in the lab for the day and will be written up immediately. Sometimes the related class will be held in the lab, this is the only circumstance where safety glasses are not required.
- 3) Dress. Appropriate dress is required at all times. No loose clothing permitted. Pants cannot have excessive rips and must be worn around the waist. Long sleeve shirts must have cuffed sleeves. No jewelry is to be worn in the lab. This includes all piercings, necklaces, watches, bracelets, rings etc.
- 4) Hats. Ballcaps are permitted with the exception that they are not worn sideways and do not cover the eyes of the student. This can block the workers view and cause an accident. Remember, this is a privilege.
- 5) Shoes. Work shoes shall be worn in the lab at all times. Steel-toed shoes are not required. No tennis shoes or open toed shoes.
- 6) Hair. Long hair must be tied back or positioned under a hat.

Safety Testing

OSHA

Teaching students to work safely is more important than teaching any skill in any program. The TCTC has made passing the 10 Hour OSHA safety course a requirement for successful completion of this program. This nationally recognized certificate will go into the student's portfolio upon completion, and because safety is so important to employers these days, it gives our students an important advantage when applying for a job. The \$18 nominal fee (\$275 if taken after graduation) is part of the program fees and may be re-assessed if the student fails to complete the initial test successfully. Students will not receive their State Certificates of Program Completion if they do not successfully complete this test.

Skill and technical training is second only to the safety of our students. To that end, the Carpentry Program not only places a heavy emphasis on safety training, but requires that each student in the program take and pass safety tests before they begin any work that may have specific safety issues. The Carpentry Program gives three such tests during the course of the program.

- Ø General Lab Safety: The Carpentry Program has a safety test that is intended to introduce the new student to safety issues associated with this program. There will be general classroom instruction to cover these issues and a written test to assess the student's understanding of these issues and how to deal with them. This general lab safety test must be passed at 100% before the student will be allowed to begin working in the lab. A note will be sent home to the parent(s) indicating that the student has passed the test and will require a signature from them. This will be returned to the program and kept on file.
- Ø Machine/Equipment Specific Safety: Students will begin using different types of machines and equipment at various times throughout the program. Prior to using each machine or piece of equipment for the first time, he/she will be instructed in its safe and proper use. A test may be required to assess student understanding. These tests must be passed with 100% accuracy.
- Ø OSHA 10 hour Construction Safety / General Industry Safety. This test is a 10 hour on-line course that instructs each student in the safety issues associated with their industry. This program is to be completed in the first two weeks of class, requires 600 minutes of online interaction and may or may not be completed

during regular class time. Passage benchmarks for this test are set by OSHA. Students who successfully complete this safety course will receive the industry recognized 10 hour safety card issued by the Occupational Safety and Health Administration.

General Safety Policies:

1. Students will be given safety instruction throughout the program. Students must pass any safety tests associated with this instruction before beginning any actual work in the specific area.
2. Parents of students, who fail the general lab safety, the OSHA 10 hour safety test or any specific safety test three consecutive times, will be required to attend a conference to discuss that student's requirements for continued participation in the program. This conference will be with the program teacher, program supervisor as well as the student.

Trumbull Career and Technical Center

Carpentry Program

Course Description

Carpentry is a two-year program designed to provide up to date information on equipment, methods, and materials used in residential and commercial construction. Program emphasis will be placed on shop safety as well as safe and correct use of hand, power, and pneumatic tools most commonly used in the construction industry.

Instructional Philosophy

To allow students to explore, experience and prepare for a career in carpentry, through a safe, equal, and structured environment.

Occupations Addressed by the Program

- Skilled laborer
- Rough Carpenter
- Interior/exterior finish carpenter
- Cabinetmaker
- CNC operator
- Estimator
- Site Supervisor

Junior Course Topics

(core)

- Basic safety
- Intro to construction math
- Intro to hand tools
- Intro to power tools
- Intro to blueprints
- Basic rigging
- Basic communication skills
- Basic employability skills

(skill)

- Orientation to the trade
- Building materials, fasteners and adhesives
- Hand and power tools
- Reading plans and elevations
- Flooring systems

- Wall and ceiling framing
- Roof framing
- Introduction to concrete, reinforcing materials, and forms
- Windows and exterior doors
- Basic stair layout

Senior Course Topics

(skill)

- Commercial drawings
- Roofing applications
- Thermal and moisture protection
- Exterior finishing
- Cold formed steel framing
- Drywall installation
- Drywall finishing
- Doors and hardware
- Suspended ceilings
- Window, door, floor and ceiling trim
- Cabinet construction
- Cabinet installation

Assessment

During related, the following will be assessed: Core, level one and/or level two worksheets, handouts, quizzes, tests and various projects.

During lab, the following will be assessed: Core, level one and/or level two job sheets, performance tests, job skills and completeness, preparation, participation, safety and cleanup.

Grading Scale

100% - 92%	A
91% - 83%	B
82% - 74%	C
73% - 66%	D
65% - 0%	F

