

CARPENTRY

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COURSE OBJECTIVE

Students will obtain education and skills in various areas of Carpentry.

COURSE DESCRIPTION

This three-year program prepares tenth, eleventh and twelfth graders for all phases of residential Carpentry. The course is taught in sequence with the construction of a house. Site layout, footer layout and forming, rough framing, exterior finish and roofing, insulation, drywall and interior finish are covered. Each unit is taught in conjunction with related safety, estimating and blueprint reading. Completers achieve skills needed to attain employment as a Carpenter.

COURSE TOPICS

Blueprint Reading | Building Codes | Building Forms | Drywall Installation and Finishing
Cabinet Construction and Installation | Rough Framing | Window and Door Installation

REQUIRED SUPPLIES

Leather Work Boots (Steel-Toed Preferred) | Safety Glasses | Shop Shirt (Maroon Polo)
25-Foot Tape Measure | Work Gloves (Carpentry Type) | Workwear Pants (Gray)

TEXTBOOKS

NCCER: Core Curriculum; Pearson Education; 2015

NCCER: Carpentry, Level 1; Fifth Edition; Pearson Education; 2013

COOPERATING COMPANIES

A.C. Dellovade, Inc.–Canonsburg, PA
Carpenters' Joint Apprenticeship and Training
Center of Greater Pittsburgh–Pittsburgh, PA
Burns & Scalo Roofing – Pittsburgh, PA
Home Depot, Inc.–Washington, PA
Liberty Lumber–Canonsburg, PA

Lowe's Home Improvement Warehouse–Washington, PA
Samson Glass & Mirror–Eighty Four, PA
Serena Builders–McMurray, PA
C. M. Slesh Remodeling–Washington, PA
Zoom Corporation–Canonsburg, PA

SPECIALIZED SHOP EQUIPMENT

Band Saw | Belt Sanders | Circular Saw | Jig Saw | Miter Chop Saw | Panel Saw | Pneumatic Tools
Power Hand Tools | Radial Arm Saw | Planer | Table Saw

CERTIFICATIONS

American Ladder Institute: Articulated Ladder; Mobile Ladder; Single & Extension Ladder; Step Ladder
CareerSafe: OSHA Certification
National Center for Construction Education and Research (NCCER) Core Curriculum Credentials
NCCER: Carpentry Level 1
Residential Construction Academy (RCA) National Registry

ARTICULATION AGREEMENTS

Students may receive points towards the Carpenters Union interview process by passing the apprenticeship test.

POST-SECONDARY TRAINING OPTIONS

Carpenters' Joint Apprenticeship Training and Education Center of Greater Pittsburgh
Community College of Allegheny County
Pennsylvania College of Technology
Triangle Tech, Inc.

POTENTIAL CAREERS

Bridge and Highway Construction | Builder | Cabinet Installer | Drywall Installer/Finisher | Estimator
Finish Carpenter | Insulator | Remodeling Contractor | Residential and Commercial Construction | Roofer
Rough Framing | Siding Mechanic | Window/Door Installer

CARPENTRY SKILLS

Mathematics — Using mathematics to solve problems.
Time Management — Managing ones' own time and the time of others.
Active Listening — Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate and not interrupting at inappropriate times.
Critical Thinking — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
Judgment and Decision Making — Considering the relative costs and benefits of potential actions to choose the most appropriate one.
Active Learning — Understanding the implications of new information for both current and future problem-solving and decision-making.
Management of Material Resources — Obtaining and seeing to the appropriate use of equipment, facilities and materials needed to do certain work.
Quality Control Analysis — Conducting tests and inspections of products, services or processes to evaluate quality or performance.
Installation — Installing equipment, machines, wiring or programs to meet specifications.
Management of Financial Resources — Determining how money will be spent to get the work done and accounting for these expenditures.

WAGES AND EMPLOYMENT TRENDS FOR CARPENTERS

NON-UNION CARPENTER/1st-YEAR APPRENTICE

Median Wages (2020)	\$23.81 Hourly, \$49,520 Annually
Number of Jobs (2019)	1,024,100 Employees
Job Outlook (2019–2029)	0% (Little or No Change)
Employment Change (2019–2029)	- 4,200

Journeymen Carpenters can expect to earn a much higher hourly rate.

Source: *Occupational Outlook Handbook*

WESTERN AREA CAREER & TECHNOLOGY CENTER
CARPENTRY
2021-2022 Shop Requirements

Shop Uniform/Accessories

- Gloves (Carpentry Type)
- Leather Work Boots (Preferably Steel-Toed)
- Polo Shirt, Maroon (Use Enclosed Order Form)
- Safety Glasses (First Pair Provided by Western Area CTC)
- Workwear Pants, Gray
- 25-ft. Tape Measure

APPROXIMATE COST: \$140

Hats are not permitted in the shop. Order uniform polo shirts by mailing the enclosed order form to TNT Manufacturing or by ordering online at companycasuals.com/WACTC. All uniform orders are delivered to Western Area and will be distributed to students after the start of the school year.

Uniform pants may be purchased at any discount chain or department store. Workwear brands such as Dickies, Dockers and Carhartt are suggested. Lost or broken safety glasses may be replaced throughout the school year in the Main Office. Cost is approximately \$3.

Lockers are provided for students to change out of street clothes into their uniforms. Locks must be purchased from WACTC; cost is approximately \$6.

Clinical activities/learning situations may require that any body piercings be removed and any tattoos covered.

Students may be required to wear professional clothing for vocational student organization conferences, competitions and meetings.

All criteria is subject to change.