

BARR CONSTRUCTION INSTITUTE

CARPENTRY APPRENTICESHIP



All students start out with basic safety and construction jobsite skills. After learning the basics, they continue on to advanced carpentry skills in year four. Classtime is split between traditional class lectures and practical lab time where students have the opportunity to apply what they have learned.

LEARN MORE:

240-500-2715

www.hagerstowncc.edu/bci

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Located at:

D.M. Bowman Family Workforce Training Center
562 Northern Avenue
Hagerstown, MD 21742

WWW.HAGERSTOWNCC.EDU/BCI

Carpentry Apprenticeship Courses

Level One:

- Basic Safety
- Introduction to Construction Math
- Introduction to Hand Tools
- Introduction to Power Tools
- Introduction to Construction Drawings
- Introduction to Basic Rigging (7.5 elective hours)
- Basic Communication Skills (3 hours)
- Basic Employability Skills
- Introduction to Materials Handling
- Orientation to the Trade
- Building Materials, Fasteners, and Adhesives
- Construction Plans and Documents
- Principles of Site and Building Layout
- Floor Systems
- Wall Systems
- Roof Framing
- Basic Stair Layout
- Building Envelope Systems

Level Two:

- The Building Process
- Site Preparation
- Wall Systems and Installation
- Roofing Applications
- Steel Framing Systems
- Thermal and Moisture Protection
- Drywall Installation
- Interior Finish, Trim, and Cabinets
- Doors and Door Hardware
- Suspended and Acoustical Ceilings
- Finished Stairs
- Exterior Finishing and Trim
- Mass Timber Construction
- Introduction to Leadership

Level Three:

- Properties of Concrete
- Rigging Equipment
- Rigging Practices
- Reinforcing Concrete
- Foundations and Slab-On-Grade
- Vertical Formwork
- Horizontal Formwork
- Handling and Placing Concrete
- Tilt-Up Wall Panels

Level Four:

- Site Layout One – Distance Measurement and Leveling
- Site Layout Two – Angular Measurement
- Advanced Roof Systems Trenching and Excavating
- Advanced Wall Systems
- Advanced Stair Systems
- Introduction to Construction Equipment
- Site Preparation
- Introductory Skills for the Crew Leader