



Structural Systems

Architecture & Commercial Construction

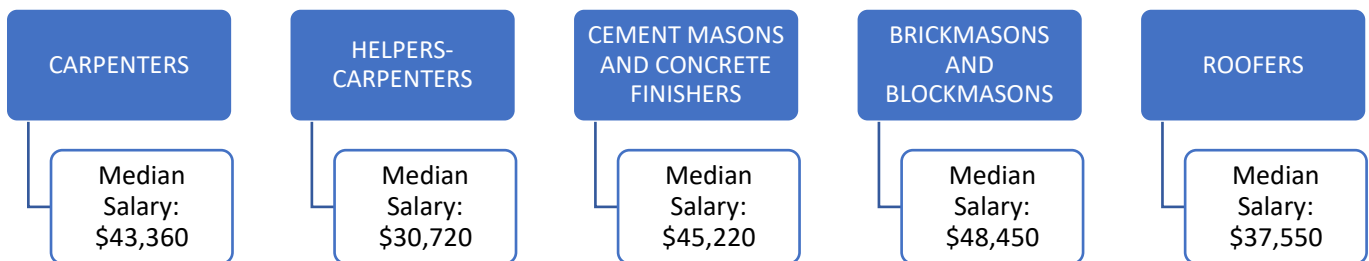
JOB OUTLOOK

Job demand for carpenters is strong. Construction and manufacturing continue to boom in Tennessee. This is expected to continue as current companies expand and new companies come to the state. Both residential and commercial construction is expected to remain active. There are many opportunities for career advancement for carpenters. The continual growth of construction combined with the number of workers retiring ensures that carpentry will remain a high demand occupation.



OCCUPATION PROFILE

Carpenters are the backbone of the construction industry. Carpenters build walls, floors, roofs and doorframes. They follow blueprints and building plans to meet the needs of their customers. Carpenters install structures and fixtures such as stairs, windows, cabinets, and molding. They measure, cut, and shape wood, plastic and other materials. All of the work can occur in residential or commercial buildings.



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Memphis-Shelby County Schools



ROAD MAP TO SUCCESS

PROGRAM OF STUDY PROFILE

The Structural Systems program of study prepares students for residential and commercial carpentry. Courses cover wood, metal, and concrete building materials, fasteners, hand and power tools, fabrication based on construction plans, framing of platform and post-and-beam structures, stairs, structural loads, installation and trim of windows and doors, installation and repair of gypsum wallboard, exterior finish work, cabinet installation, and thermal and moisture protection.

CAREER PATHWAY

SECONDARY EDUCATION

- * Fundamentals of Construction
- * Structural Systems I
- * Structural Systems II
- * Construction Practicum

CERTIFICATION

- * Building Construction Technology
- * Construction Applications

ASSOCIATES

- * A.A.S. Civil/Construction Engineering Technology

POSTSECONDARY

- * B.S. Construction Science
- * B.S. Mechanical Engineering

MSCS PARTICIPATING SCHOOLS: Germantown HS & Southwest CTC

LOCAL EMPLOYERS: A2H Architects, Keeler Iron Works, Pickering Firm, Process Systems, Inc. Construction, Tennessee Builders Education Foundation, The Reaves Firm