


	Current Number of Workers 2006	Projected Number of Workers 2016	% Change to 2016	Average Annual Openings	 Carpenters SOC # 47-2031	
Regional	700	800	14.30%	20		
Texas	50,250	59,850	19.10%	1640		
Education/ Training Time	Is License Required?	Wage Rate \$/Hr. 2008 Regionally	Percent Female	Average Age	Job Turnover	Why Most Job Openings Occur
1—2 years OR Apprentice	No	\$14.95	1.4%	36.6	Average	Equal Growth/ Replacement

JOB DESCRIPTION

Construct, erect, install, or repair structures and fixtures made of wood, such as concrete forms; building frameworks, including partitions, joists, studding, and rafters; wood stairways, window and door frames, and hardwood floors. May also install cabinets, siding, drywall and batt or roll insulation. Include brattice builders who build doors or brattices (ventilation walls or partitions) in underground passageways to control the proper circulation of air through the passageways and to the working places. *Possible Green Job with enhanced skills.*

WHERE DO WORKERS FIND JOBS?

Nonresidential Building Construction
 Residential Building Construction
 Building Finishing Contractors
 Foundation, Structure, and Building Exterior Contractors
 Other Specialty Trade Contractors

RELATED COLLEGE PROGRAMS

CIP 460201 Carpentry/Carpenter
 CIP 470616 Marine Maintenance/Fitter and Ship Repair Technology/Technician

IMPORTANT KNOWLEDGE

ENGINEERING AND TECHNOLOGY

- * Building and Construction
- * Design
- * Engineering and Technology
- * Mechanical

MANUFACTURING AND PRODUCTION

- * Production and Processing

MATHEMATICS AND SCIENCE

- * Mathematics

IMPORTANT SKILLS

CONTENT

- * Active Listening
- * Mathematics

PROCESS

- * Active Learning
- * Critical Thinking

RESOURCE MANAGEMENT SKILLS

- * Management of Financial Resources
- * Management of Material Resources
- * Management of Personnel Resources
- * Time Management

SYSTEMS SKILLS

- * Judgment and Decision Making

TECHNICAL SKILLS

- * Equipment Maintenance
- * Installation
- * Quality Control Analysis

IMPORTANT ABILITIES

CONTROL MOVEMENT ABILITIES

FINE MANIPULATIVE ABILITIES

IDEA GENERATION AND REASONING ABILITIES

PHYSICAL STRENGTH ABILITIES

SPATIAL ABILITIES

VISUAL ABILITIES

NATURE OF THE WORK: Carpenters

Carpenters are involved in many different kinds of construction activity, from the building of highways and bridges, to the installation of kitchen cabinets. Carpenters construct, erect, install, and repair structures and fixtures made from wood and other materials. Depending on the type of work and the employer, carpenters may specialize in one or two activities or may be required to know how to perform many different tasks. Small home builders and remodeling companies may require carpenters to learn about all aspects of building a house--framing walls and partitions, putting in doors and windows, building stairs, installing cabinets and molding, and many other tasks. Large construction contractors or specialty contractors, however, may require their carpenters to perform only a few regular tasks, such as framing walls, constructing wooden forms for pouring concrete, or erecting scaffolding. Carpenters also build tunnel bracing, or brattices, in underground passageways and mines to control the circulation of air through the passageways and to worksites.

Each carpentry task is somewhat different, but most involve the same basic steps. Working from blueprints or instructions from supervisors, carpenters first do the layout--measuring, marking, and arranging materials--in accordance with local building codes. They cut and shape wood, plastic, fiberglass, or drywall using hand and power tools, such as chisels, planes, saws, drills, and sanders. They then join the materials with nails, screws, staples, or adhesives. In the final step, carpenters check the accuracy of their work with levels, rules, plumb bobs, framing squares, or electronic versions of these tools, and make any necessary adjustments. When working with prefabricated components, such as stairs or wall panels, the carpenter's task is somewhat simpler because it does not require as much layout work or the cutting and assembly of as many pieces. Prefabricated components are designed for easy and fast installation and generally can be installed in a single operation.

Carpenters who remodel homes and other structures need a broad range of carpentry skills because they must be able to perform any of the many different tasks these jobs may require. Since they are so well-trained, these carpenters often can switch from residential building to commercial construction or remodeling work, depending on which offers the best work opportunities.

Carpenters employed outside the construction industry perform a variety of installation and maintenance work. They may replace panes of glass, ceiling tiles, and doors, as well as repair desks, cabinets, and other furniture. Depending on the employer, carpenters install partitions, doors, and windows; change locks; and repair broken furniture. In manufacturing firms, carpenters may assist in moving or installing machinery.