

Building Trades and Construction Industry Sector

A strong demand for workers continues in the Building Trades and Construction industry sector, and that demand increases as populations, businesses, and local economies expand. According to the U.S. Bureau of Labor Statistics, construction is among the top ten of the nation's industries, constituting almost 5 percent of the total national gross domestic product. In California, the long-term (2004-14) occupational projection for the Building Trades and Construction industry includes a need to fill 17,790 new jobs and provide 17,920 replacement workers as members of the current workforce retire or leave. In some trades in the state, an increase of more than 30 percent in the number of available jobs is expected over the next 10 years. Nationally, more than one million construction jobs will be created over the next decade, with job categories ranging from laborers to engineers to contractors.

In Building Trades and Construction industry sector classes, activities range from general or exploratory skills to job-specific skills that prepare students to select and pursue career paths through postsecondary training, work experience education, apprenticeships, and postsecondary education. The classes incorporate and apply academic core content to career-related education. These interdisciplinary approaches provide students with strong foundation skills and advanced skills in the career field of their choice, allowing students to exit programs and enter occupations directly or pursue further specialty training.

Building Trades and Construction **Industry Sector Pathways:**

- · Cabinetmaking and Wood Products
- Engineering and Heavy Construction
- Mechanical Construction
- · Residential and Commercial Construction

Entry Level Careers

(with high school diploma)

Carpenter Apprentice Cabinetmaking Apprentice Machine Operator Draftsman Electrical Repair Person Electronic Equipment Installer Maintenance Technician Laborer

Technical Level Careers

(with AA or AS degree or certificate)

Electronic Technician Maintenance Supervisor Heating/Ventilation/AC (HVAC) Technician **Environmental Materials Technician** Electrician **Construction Supervisor** Computerized Numerical Control Tech **CAD** Technician Building Constructor Cabinetmaking Journeyman Automated Control System Technician Furniture Maker

Production Manager Iron Worker Heavy Construction Journeyman Plumber Contractor

Professional Level Careers

(with BS or BA degree)

Business Owner

Ouality Control Manager Environmental and Safety Manager **Product Designer** Manufacturing Engineer Construction Manager **Building Instructor** Architect Engineer Designer Building Trades Instructor Construction Manager

College: High School(s):			Sector: Pathway: Program:						
	Grade English Mat		Math	Science	Social Studies	Required Courses Recommended Elective Courses Other Elective Courses CTE Courses			Grade 9-12 Dual Enrollment Options
Secondary	9								
	10								
	11								
	12								
Postsecondary	Year Term								
	Year Term								
	Year Term								
	Year Term								
	Year Term								
	Year Term								
			Required Courses:						
7 7	WHODOUWANT2B.COM Funded by the State of California			Recommended	Recommended Required Courses:				
VV				Career Education Courses:					
					Credit-Based Transition Programs (e.g., Dual Enrollment, Articulated Courses, 2+2+2)				
				Assessments, A	Assessments, Advising, or Additional Preparation During Summer Breaks				