

# **Architecture and Construction Career Cluster**

The Architecture and Construction career cluster focuses on designing, planning, managing, building, and maintaining the built environment. This career cluster includes occupations ranging from architect, carpenter, and construction manager to electrician, plumber, and heating, air conditioning, and refrigeration technician.

# Statewide Program of Study: Construction

The Construction program of study focuses on occupational and educational opportunities related to constructing, installing, and repairing structures and fixtures made of wood (including frameworks, partitions, joists, studding, rafters, and stairways). The program of study includes installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.

# **Secondary Courses for High School Credit**



Grade Level	Courses
9 <sup>th</sup>	• Principles of Construction
10 <sup>th</sup>	Construction Technology I
<b>11</b> <sup>th</sup>	Construction Technology II
12 <sup>th</sup>	Practicum in Construction Technology
	Additional Courses Offered
10 <sup>th</sup> - 12 <sup>th</sup>	Electrical Technology I
11 <sup>th</sup> - 12 <sup>th</sup>	Electrical Technology II

## **Aligned Advanced Academic Courses**

**Dual Credit** 

Dual credit offerings will vary by local education agency.

Students should be advised to consider these course opportunities to enrich their preparation. AP or IB courses not listed under the Secondary Courses for High School Credit section of this framework document do not count towards concentrator/completer status for this program of study.

### Work-Based Learning and Expanded Learning Opportunities

Work-Based
Learning Activities

- Intern with a carpenter to practice skills such as measuring materials and assembling structures
- Participate in a pre-apprenticeship that includes activities like installing cabinets, drywall, and siding

# **Expanded Learning Opportunities**

- Shadow a construction manager to learn more about how construction teams work together to complete projects
- Participate in SkillsUSA

#### **Aligned Industry-Based Certifications**

#### **IBC's Offered**

NCCER Core



## **Example Postsecondary Opportunities**

#### **Apprenticeships**

Carpenter



#### **Associate Degrees**

- Construction Management
- Construction Engineering Technology
- **Building Construction Technology**

#### Bachelor's Degrees

- Construction Engineering
- Construction Science
- Construction Site Management

#### Master's, Doctoral, and Professional Degrees

- Construction Engineering Technology
- Construction Engineering
- Construction Management
- Project Management



## **Example Aligned Occupations**

## **Drywall and Ceiling Tile Installers**

Median Wage: \$44,699 Annual Openings: 758 10-Year Growth: 14%

#### **Carpenters**

Median Wage: \$46,272 Annual Openings: 5,623 10-Year Growth: 15%

### **Construction Managers**

Median Wage: \$95,072 Annual Openings: 6,325 10-Year Growth: 24%

Data Source: TexasWages, Texas Workforce Commission. Retrieved 3/8/2024.



For more information visit: