

# 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,

## A

- Building Maintenance Technology I
- Entrepreneurship I

- Level 3
- Pipefitting Technology II
  - Pipefitting Technology II + Pipefitting Technology Lab II
  - Plumbing Technology II

- Level 4
- Practicum in Construction Technology
  - Practicum in Construction Technology + Extended Practicum in Construction Technology
  - Practicum in Entrepreneurship
  - Practicum in Entrepreneurship + Extended Practicum in Entrepreneurship
  - Career Preparation for Programs of Study
  - Career Preparation for Programs of Study + Extended Career Preparation

## 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.



## Example Postsecondary Opportunities

### Apprenticeships

- Plumber
- Pipefitter



### Associate Degrees

- Pipefitting/Pipefitter and Sprinkler Fitter
- Construction Site Management
- Plumbing Technology
- Property Maintenance

### Bachelor's Degrees

- Construction Engineering
- Construction Management

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

- Construction Engineering
- Construction Management

### Additional Stackable IBCs/License

- Journeyman Plumber
- Master Plumber

## Example Aligned Occupations

Median Wage: \$36,352  
Annual Openings: 1,482  
10-Year Growth: 26%

Median Wage: \$55,804  
Annual Openings: 5,751  
10-Year Growth: 22%

Median Wage: \$95,072  
Annual Openings:

## Work-Based Learning and Expanded Learning Opportunities

### Work-Based Learning Activities

- Complete a pre-apprenticeship in plumbing or pipefitting to develop skills in assembling, installing, and repairing pipes
- Shadow a plumber who is repairing and drainage systems

### Expanded Learning Opportunities

- Participate in SkillsUSA
- Tour apprenticeship programs

## Aligned Industry-Based Certifications

- HBI Pre-Apprenticeship Certificate Training (PACT), Core
- Industrial Technology Maintenance (ITM)—Maintenance Piping
- NCCER Core
- NCCER Industrial Pipefitter
- NCCER Pipefitting Level I
- NCCER Plumbing Level I
- NCCER Plumbing Level II
- Tradesman Plumber - Limited



## Course Information

### Course

Pipefitting Technology II  
N1300426 (1 credit)

### Prerequisites | Corequisites

Prerequisites: Pipefitting Technology I  
Corequisites: None  
Recommended Prerequisites: None  
Recommended Corequisites: None

### Career Clusters



Pipefitting Technology  
Lab II + Pipefitting  
Technology Lab II  
N1300428 (2 credits)

Prerequisites: Pipefitting Technology I  
Corequisites: None  
Recommended Prerequisites: None  
Recommended Corequisites: None



Plumbing Technology II  
13006100 (2 credits)

Prerequisites: Plumbing Technology I  
Corequisites: None  
Recommended Prerequisites: None  
Recommended Corequisites: None



### Course

Practicum in Construction  
Technology\*  
First Time Taken:  
13005250 (2 credits)  
Second Time Taken:  
13005260 (2 credits)

### Prerequisites | Corequisites

Prerequisites: Construction Technology II

### Career Clusters

Level 4

