

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,

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- Building Maintenance Technology I
- Entrepreneurship I

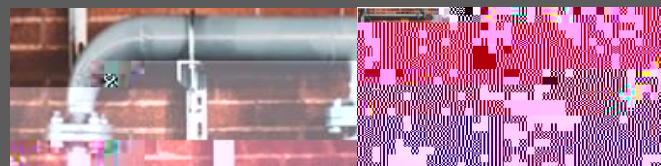
- Level 3
- Pipefitting Technology II
 - Pipefitting Technology II + Pipefitting Technology Lab II
 - Plumbing Technology II

- 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

