



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, ventilation, and refrigeration technician.

Program of Study: *Plumbing Technology*

The Plumbing Technology program of study focuses on occupational and educational opportunities related to assembling, installing, and repairing pipes, fittings, or fixtures of heating, water, and drainage systems. The program of study includes maintaining pipe supports and related hydraulic or pneumatic equipment for steam, hot water, heating, cooling, lubricating, and sprinkling.

Secondary Courses for High School Credit

9th Grade	Principles of Construction
10th Grade	- Plumbing Technology 1 - Pipefitting Technology 1
11th Grade	Plumbing Technology 2
12th Grade	Practicum in Construction Technology
Optional Electives	- Introduction to Welding - Entrepreneurship - Career Prep 1

Internship and Practicum Opportunities

Students have the opportunity to gain hands-on experience at Keller's Center for Advanced Learning (KCAL).

Career and Technical Student Organization (CTSO)

TSA

Technology Student Association

SkillsUSA

Workforce Development Organization

FCCLA

Family Career & Community Leaders of America

Career & Technical Student Organizations (CTSOs) are student-led organizations that build leadership, career skills, and real-world experience through competitions, networking, and hands-on learning.

Aligned Industry-Based Certifications

- NCCER Core (Construction)
- NCCER Plumbing Level 1
- NCCER Plumbing Level 2
- Tradesman Plumber - Limited



National Center for Construction Education and Research



Successful completion of the Plumbing Technology program of study will fulfill requirements of the **Business and Industry endorsement**.



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

Helpers—Pipelayers, Plumbers, Pipefitters, and Steamfitters

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

Plumbers, Pipefitters, and Steamfitters

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

Construction Managers

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

For more information, visit the KISD Course Guide
<https://tinyurl.com/464uxm25>

