



Level 1
Principles of Construction
Introduction to Welding

Plumbing Technology I
Pipefitting Technology I

Level 2

Plumbing Technology II
Pipefitting Technology II

Level 3

Practicum in Construction
Technology
Career Preparation

Level 4

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Pipefitting, Level 1	Commercial Plumbing Inspector	Plumbing Technology/ Plumber	Construction Science	Construction Management
NCCER Plumbing, Level 1 & 2	Journey Level Pipefitter- Steamfitter	Electrical and Power Transmission Installation/ Installer, General	Operations Management and Supervision	Operations Management and Supervision
NCCER Construction Technology	Plumbing Plans Inspector	Pipefitting/ Pipefitter and Sprinkler Fitter		
Tradesman Plumber – Limited License	Certified Service Manager	High Performance and Custom Engine Technician/ Mechanic		

Occupations	Median Wage	Annual Openings	% Growth
Mechanics, Installers, and Repairers	\$63,710	4,243	17%
Plumbers, Pipefitters and Steamfitters	\$44,928	5,765	23%
Helpers-Pipelayers, Plumbers, Pipefitters, and Steamfitters	\$30,098	1,567	18%
Pipe Installers	\$31,616	802	21%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:	Work Based Learning Activities:
Job shadow a plumber, pipefitter, or steamfitter SkillsUSA	Obtain a Core Curriculum NCCER certification in Pipefitting Level 1 or Plumbing Level 1

Additional industry-based certification information is available on the TEA CTE website. For more information on postsecondary options for this program of study, visit TXCTE.org.

The Plumbing and Pipefitting program of study explores the occupations and educational opportunities related to assembling, installing, or repairing pipes, fittings, or fixtures of heating, water, or drainage systems. This program of study may also include exploration into maintaining pipe supports or related hydraulic or pneumatic equipment for steam, hot water, heating, cooling, lubricating, sprinkling, or industrial production or processing systems.



The Architecture and Construction Career Cluster focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management.

Successful completion of the Plumbing and Pipefitting program of study will fulfill requirements of the Business and Industry Endorsement. Revised - July 2020



COURSE INFORMATION

COURSE NAME	SERVICE & COURSE ID	PREREQUISITS (PREQ) COREQUISITES (CREQ)	Grade
Principles of Construction	13004220 / 8060 (1 credit)	None	9-12
Introduction to Welding	13032250 / 8329 (1 credit)	Principles of Manufacturing or Principles of Construction	10-12
Plumbing Technology I	13006000 / 8134 (1 credit)	Principles of Manufacturing or Principles of Construction or Agricultural Mechanics	10-12
Plumbing Technology II	13006100 / 8144 (2 credits)	PREQ: Plumbing Technology I	11-12
Practicum in Construction Technology	13005250 / 8145 (2 credits)	PREQ: Construction Technology II or Plumbing Technology I	12
Career Preparation I	12701300 / 8000 (2 credits)	None	11-12

BISD Recommended Course Sequence

Grade	9 th Year	10 th Year	11 th Year	12 th Year
Courses	Principles of Manufacturing	Introduction to Welding	Plumbing Technology I	Plumbing Technology II