



Pipefitting and Plumbing Technology

This course is designed to introduce the student to various techniques used in the pipefitting plumbing trade: pipe fabrication and installation, blueprint reading and isometric drawings, measurement techniques, hand and power tools, cutting and prepping pipe , using a cutting torch, threading pipe, grooving , soldering , brazing , solvent joining pipes and installing valves.

Program/Location	Length	Days	Time
Day Program/ Knoxville Campus	12 Months	Monday-Friday	8:00am—2:30 pm

Course Outline

Orientation and Safety
 Technology Foundations
 OSHA 10 Certification
 Trade Tools
 Applied Math - Pipefitting
 Blueprint Reading, Drawings and Symbols
 Oxy-fuel Cutting, Welding and Torch Safety
 Rigging and Pipe Hangers
 Pipe Valves, Flanges and Fasteners
 Types and Schedules of Pipe
 Fabrication, Make-Up and Take-Off
 Butt Weld Fabrication
 Socket Weld Fabrication
 Threaded Pipe Fabrication
 Copper Pipe Fabrication
 Career Skills
 Plumbing Codes and Standards
 Rough In Specifications
 Testing and Inspection
 Final Installation

Typical Job Opportunities

Entry Level Pipefitter
 Entry Level Plumber
 Entry Level Sprinkler Fitter

Diplomas & Required Clock Hours

Pipefitting/Plumbing Diploma—1,296

Certificates & Required Clock Hours

Pipefitter Entry Level Helper—48

Pipefitter Middle Class Helper—432

Pipefitter Top Helper —630

Completion Rate for 2016 = 85%

Placement Rate for 2016 = 100%

HOW TO APPLY

All Documents Must be Presented Together to Apply

- 1. FAFSA—Provide Proof of Completed FAFSA
School Code = 004025 at <https://fafsa.ed.gov/>**
- 2. Immunizations—Provide Proof of Required
Immunizations (Form is Attached)**
- 3. Complete TCAT Application for Enrollment
(Form is Attached)**



Pipefitting and Plumbing Technology

Book, Tool, and Supply List

1st Trimester			
Tuition	Cost		Total
Tuition*	\$ 1,139.00		
Technology Access Fee*	\$ 67.00		
Student Activity Fee*	\$ 10.00		
TOTAL			\$1,216.00

Book	ISBN	Cost	Required	
Pipefitting Level 1, 3rd edition	9780132273107	\$ 90.00	x	
Pipe Fitter's & Pipe Welder's Handbook	9780028025001	\$ 24.00	x	
Pipefitters Blue Book	9780970832122	\$ 23.00	x	
Core Curriculum: Intro Craft Skills, Ed 4th	9780136086376	\$ 76.00	x	
Pipe Fabricators Blue Book	9780970832139	\$ 23.00	x	
TI-30xa Scientific Calculator	no isbn	\$ 13.00	x	
TOTAL				\$249.00

Supplies and Tools	Needed By	Cost	Required	
Tape Measure, 1 in x 25 ft, carbon steel	First day of class	\$ 15.00	x	
Magnetic Glo-View Torpedo Level 9 inch	First day of class	\$ 22.00	x	
Angle Gringer, 4 1/2 in, no load RPM 12000	First day of class	\$ 82.00	x	
Channel locks 12 in	First day of class	\$ 20.00	x	
Adjustable Wrench, 12 in	First day of class	\$ 31.00	x	
Wrap-a-Round Tape, Blade 6 ft x 3 7/8	First day of class	\$ 21.00	x	
2 Straight Pipe Wrench, Ductile Iron, 18 inch	First day of class	\$ 26.00	x	
32 oz Ball pein Hammer	First day of class	\$ 20.00	x	
2 Straight Pipe Wrench, Steel, 14 inch	First day of class	\$ 44.00	x	
Triple Flint Lighter, with/1 Flint Renewal	First day of class	\$ 8.00	x	
Combination Set, 12 in, 3 pc, Trisquare	First day of class	\$ 122.00	x	
Plumb Bob 8 oz	First day of class	\$ 12.00	x	
Soapstone Marker Set, 5 pc	First day of class	\$ 7.00	x	
TOTAL				\$430.00

Supplies		Cost	Required	
Leather Drivers Gloves, Cowhide	First day of class	\$ 15.00	x	
Ear Plugs, 30db, Corded, Reg, 5 PR	First day of class	\$ 3.00	x	
Clear Uncoated Safety Glasses	First day of class	\$ 2.00	x	
Green Fire Retardent Jacket	First day of class	\$ 28.00	x	
TOTAL				\$48.00

Miscellaneous Cost		Cost	Required	
OSHA 10 Training		\$ 25.00	x	
TOTAL				\$25.00

All Costs are Estimated and Subject to Change Without Notice Revised: 12/15/2016

*Denotes costs that can be covered by TN Promise and TN Reconnect

2nd Trimester				
Tuition		Cost		Total
Tuition*		\$ 1,139.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
TOTAL				\$1,216.00
3rd Trimester				
Book		ISBN	Cost	Required
Pipefitting Level 2, 3rd edition		9780132273145	\$ 130.00	x
Pipefitting Level 3, 3rd edition		9780132272841	\$ 130.00	x
TOTAL				\$260.00
Tuition		Cost		Total
Tuition*		\$ 1,139.00		
Technology Access Fee*		\$ 67.00		
Student Activity Fee*		\$ 10.00		
TOTAL				\$1,216.00
Book		ISBN	Cost	Required
Pipefitting level 4, 3rd edition		9780136144298	\$ 130.00	x
TOTAL				\$130.00
Miscellaneous Cost		Cost	Required	
Graduation Supplies		\$ 40.00	x	
TOTAL				\$ 40.00
TOTAL PROGRAM COST				\$4,830.00

All Costs are Estimated and Subject to Change Without Notice Revised: 12/15/2016

*Denotes costs that can be covered by TN Promise and TN Reconnect

TCAT - Knoxville Certification of Immunization Measles, Mumps, and Rubella (MMR)

Student's name: _____ Program of Enrollment: _____

PART I (TO BE COMPLETED BY STUDENT)

Proof of MMR immunization is not required for the following reason:

- I graduated from a Tennessee public or private high school in 1999 or after. (transcript attached)
- I attended a Tennessee public or private high school in 2001 or after. (transcript attached)
- I was born prior to January 1, 1957. (copy of photo ID or birth certificate attached)
- I am active duty or former military personnel. (copy of DD214 or active military ID attached)

IF THE ABOVE IS CHECKED, PLEASE SIGN BELOW.

PART II (TO BE COMPLETED BY STUDENT)

Proof of MMR immunization is not required for the following reason:

- I refuse immunization because of religious doctrine. (Reason affirmed under the penalties of perjury. Please attach statement.)

IF THE ABOVE IS CHECKED, PLEASE SIGN BELOW.

PART III—MMR (TO BE COMPLETED BY PHYSICIAN)

Please circle the number that applies to this patient:

1. Patient has received two doses of measles vaccination since the age of 12 months:

Month/year _____ Month/year _____

2. Vaccination is medically contraindicated because of pregnancy, allergy to vaccine, etc. (Please list reasons.)

3. Patient had disease, as confirmed by medical record:

Month/year _____

4. Patient is immune to disease, as confirmed by laboratory.

Comment _____

ATTEST

(Must be signed by an M.D. or D.O.)

Name of physician (Please print) _____

Office telephone _____

Physician's signature _____ Date _____

Student's signature _____ Date _____

TCAT - Knoxville Certification of Immunization Varicella (Chicken Pox)

Student's name: _____ Program of Enrollment: _____

PART I (TO BE COMPLETED BY STUDENT)

Proof of varicella (chicken pox) immunization is not required for the following reason:

- I attended a Tennessee public high school between 1999 and May 2016. **(Must provide proof of second varicella vaccine dose from your physician office.)** (transcript attached)
- I was born prior to January 1, 1980. (copy of photo ID or birth certificate attached)
- I am active duty or former military personnel. (copy of DD214 attached)

IF THE ABOVE IS CHECKED, PLEASE SIGN BELOW.

PART II (TO BE COMPLETED BY STUDENT)

Proof of varicella (chicken pox) immunization is not required for the following reason:

- I refuse immunization because of religious doctrine. (Reason affirmed under the penalties of perjury. Please attach statement.)

IF THE ABOVE IS CHECKED, PLEASE SIGN BELOW.

PART III—VARICELLA (TO BE COMPLETED BY PHYSICIAN)

Please circle the number that applies to this patient:

1. Patient has received two doses of varicella (chicken pox) vaccination since the age of 12 months:
Month/year _____ Month/year _____
2. Vaccination is medically contraindicated because of pregnancy, allergy to vaccine, etc. (Please list reasons.)

3. Patient had disease, as confirmed by medical record:
Month/year _____
4. Patient is immune to disease, as confirmed by laboratory.
Comment _____

ATTEST

(Must be signed by an M.D. or D.O.)

Name of physician (Please print) _____

Office telephone _____

Physician's signature _____ Date _____

Student's signature _____ Date _____



Application for Enrollment

The information is for Office use only:

ADMISSIONS REQUIREMENTS

- FAFSA I will not be filing financial aid. I will be paying for my education. Students Initials: _____
- Immunizations Education Transcripts

SPECIAL ADMISSIONS REQUIREMENTS

Cosmetology:

- Photo Proof of Age Copy of SS Card RT/LT Handed Manicuring Only

Dental Assisting, Medical Assisting, and Surgical Technology

Compass required scores: Math 30 and Reading 70

- COMPASS or ACT – Scores: _____ Math _____ Reading (Date: _____)
- CPR Documentation (BLS for Healthcare Providers)

Practical Nursing:

Compass required scores: Math 50 and Reading 80

- Notarized Declaration of Citizenship Copy of ID Used to Declare Citizenship
- CPR Documentation (BLS for Healthcare Providers)
- COMPASS or ACT – Scores: _____ Math _____ Reading (Date: _____)

Truck Driving:

- MVR DOT Physical Valid Driver's License
- U.S. Citizenship / Residency

Staff Signature: _____

Date: _____