

CURRICULUM GUIDE

Setting a path for your future education

FIVE YEAR PIPEFITTING APPRENTICESHIP

International Pipe Trades Joint Training Committee, Inc.

FIRST YEAR OF APPRENTICESHIP

FALL & SPRING BLOCK

Heritage Program	12	Oxy-Fuel Cutting & Welding and Shielded Metal-Arc Welding	48
Use and Care of Tools	24	Related Mathematics	30
Pipe, Fittings, Valves, Supports and Fasteners	24	Rigging	24
Job Safety and Health OSHA Smart Mark	30	Drawing Interpretation and Plan Reading	30
Soldering & Brazing	24		

SECOND YEAR OF APPRENTICESHIP

FALL & SPRING BLOCK

Related Science	54
Drawing Interpretation and Plan Reading	48
Basic Electricity	36
Oxy-Fuel Cutting & Welding and Shielded Metal-Arc Welding	108

THIRD YEAR OF APPRENTICESHIP

FALL & SPRING BLOCK

Electric Controls for Mechanical Equipment Service Part I	36	Conservation and Safe Handling of Refrigerants EPA Certification Core, Type I and Type II	6
Steam Systems	60	Hydronic Heating and Cooling	36
Pumps	12		
Refrigeration	96		

FOURTH YEAR OF APPRENTICESHIP

FALL & SPRING BLOCK

Advanced Plan Reading & Related Drawing, Sleeve Drawing & Deck Layout Drawing, Coordination & Piping Systems Design, C.A.D.	42	Oxy-Fuel Cutting & Welding and Shielded Metal-Arc Welding	110
Air Conditioning	42	Valve Repair Training Leading to Certification	40
Conservation and Safe Handling of Refrigerants	12		
EPA Certification Type III and Universal			

FIFTH YEAR OF APPRENTICESHIP

FALL & SPRING BLOCK

Electric Controls for Mechanical Equipment Service Part II	54	Related Mathematics Instruments used for Piping Systems Layout	28
Introduction to Start, Test and Balance Instrumentation and Process Control	24	Gas Tungsten Arc Welding	84
	56		

NOTES

PIPE

216

TOTAL CLASSROOM
HOURS REQUIRED

Upon acceptance into the apprenticeship program, you will be required to complete five years of training, with each year consisting of up to 2,000 hours of on-the-job training and a minimum of 216 hours of classroom instruction: "proof" that you're the best trained worker for the job. After successfully completing the five-year program, you become a full-fledged journeyman. Once reaching journeyman status, union workers are evaluated for individual skill level and have the opportunity to advance their careers through U.A. continuing education programs.

Apprentices and journeymen can also earn an Associates Degree of Applied Science in Apprenticeship Pipefitting. In addition, they have the opportunity to pursue U.A. STAR certification after the fifth year of apprenticeship. Upon passing the U.A. STAR test, apprentices and journeymen will walk away with even higher earning power and 30 credits toward an Associates Degree in Construction Supervision. US STAE training is ISO3002 certified and ANSE approved.

**PLUMBERS &
PIPEFITTERS**
LOCAL 562