

Table: Pipefitting Program Outline

PROGRAM YEAR	SEMESTER	CURRICULUM
1st Year	1st Semester	<ol style="list-style-type: none"> 1. OSHA Certification 2. Use and Care of Tools 3. Basic Refrigeration and Basic Science 4. Basic Related Trade Math
	2nd Semester	<ol style="list-style-type: none"> 1. First Aid & CPR, EPA Section 608 2. Basic Rigging and Basic Electrical Fundamentals 3. Soldering and Brazing 4. Basic Safe Use of DMM
2nd Year	1st Semester	<ol style="list-style-type: none"> 1. Basic Drawing & Blue Print Reading 2. Introduction to Basic Drawing and Measuring tools. 3. Safe Working Practices in shops, Basic Pipefitting 2 4. Valve and Fitting Identification
	2nd Semester	<ol style="list-style-type: none"> 1. Isometric Drawings, Building Layouts 2. Introduction to SMAW, Introduction to Oxy-Fuel Cutting 3. Run stringers on plate, How to strike an arch 4. Customer Service
3rd Year	1st Semester	<ol style="list-style-type: none"> 1. Mechanical Building Code 2. Welding Shop time - To Obtain 2G Certification 3. Refrigerants and Oil Safe Handling, 4. Basic Vapor Compression Cycle, Basic cooling tower and chiller operation.
	2nd Semester	<ol style="list-style-type: none"> 1. Introduction to Hydraulics 2. Piping systems (open and close Loop) 3. Chilled water application 4. Pump Alignment
4th Year	1st Semester	<ol style="list-style-type: none"> 1. Introduction to Steam Systems, Low pressure boilers 2. Shop time - Gas burners, one-pipe and two-pipe steam systems 3. Welding Shop time - to obtain 5G certification
	2nd Semester	<ol style="list-style-type: none"> 1. Related trade math 2, trigonometry 2. Welding Shop time - To obtain 5G 3. Introduction to 57.25 inch
5th Year	1st Semester	<ol style="list-style-type: none"> 1. Intro to Miter Cuts, identifying Sides of Triangles and Angles. 2. Hand cutting pipe bevels, Intro to rolling offsets 3. Welding shop - to obtain 6G
	2nd Semester	<ol style="list-style-type: none"> 1. Fabrication of Rolling offsets, Intro to Pipe Intersections, Intro to Laterals 2. Special degree offsets 3. Welding shop - to obtain 6G 4. Intro to GTAW, Learn principles for UA-21 and UA-22