Acellus® Plumbing Technology I

INTERNATIONAL ACADEMY OF SCIENCE Plumbing Technology I Course Curriculum

		Plumbing Technology I Course Curriculum
Unit	1 - The Plumbing Professional	45 Piping Support
1	What Is a Plumber?	Unit 7 - Copper Pipe and Fittings
2	What Kind of Work Does a Plumber Do?	46 Sizing and Labeling Requirements
3	What Education Does a Plumber Need?	47 Applications for Copper Pipe and Fittings
Unit 2	2 - Plumbing Safety	48 Cutting, Joining, and Installing Copper Pipe
4	Consequences and Repercussions of Accidents	49 Soldering: Part 1
5	What Is Personal Protective Equipment?	50 Soldering: Part 2
6	What Are Safety Hazards on the Job Site?	51 What Is Brazing?
7	What Is Ladder Safety?	52 Insulation, Pressure Testing, and Seismic Codes
8	What Is Scaffolding?	53 Methods for Joining Copper Tubing
9	What Is Fall Protection?	Unit 8 - Cast-Iron Pipe and Fittings
10	What Is Electrical Safety?	54 Hub-and-Spigot and No-Hub Cast Iron Pipe
11	What Is Hand and Power Tool Safety?	55 Joining Methods, Installation, and Testing Procedures
12	What Is Compressed Gas and Fire Safety?	Unit 9 - Carbon Steel Pipe and Fittings
13	What Is the Hazard Communication Standard?	56 Sizing and Labeling Requirements of Steel Pipe
14	What Are Acute and Chronic Symptoms?	57 What Is Threading and Fittings?
	What Are Respirators?	58 Pipe Threading
16	What Is Heat Exposure and Confined-Spaces?	59 Pipe Thread Sealant
Unit 3	3 - Tools of the Plumbing Trade	60 What Is Corrugated Stainless Steel Tubing?
17	Hand Tools in the Plumbing Profession	61 Types of Valves Used in the Plumbing Industry
18	What Are Leveling Instruments?	Unit 10 - Plumbing Fixtures
19	What Are Power Tools?	62 Plumbing Fixtures: Part 1
20	What Are the Types of Cutting Tools?	63 Plumbing Fixtures: Part 2
21	What Are Pipe Cutters?	64 Plumbing Fixtures: Part 3
22	What Are Drilling Tools?	65 Plumbing Fixtures: Part 4
23	What Are Drill Bits?	66 Plumbing Fixtures: Part 5
24	What Is Pipe Threading Equipment?	67 Plumbing Fixtures: Part 6
25	What Wrenches Does a Plumber Need?	68 Fixture Fittings: Part 1
26	What Are Hammers, Screwdrivers, and Pipe Vises?	69 Fixture Fittings: Part 2
Unit 4	4 - Plumbing Math	70 Fixture Fittings: Part 3
27	Math Concepts Needed for Plumbing Trainees	Unit 11 - Drain, Waste, and Vent (DWV) Systems
28	Why Are Fractions Necessary?	71 What Is a Trap?
29	Math Needed for Construction Print Reading	72 What Is a Trap Arm?
30	What Is Area and Volume?	73 What Is Trap Seal Loss?
31	What Is a 45-Degree Piping Offset?	74 What Is a Vent?
32	What Is a Multiple Piping Offset?	75 What Are Drains?
Unit !	5 - Plumbing Drawings	76 What Are Drainage Fittings?
33	Why Do We Need Construction Plans?	77 What Is Grade?
34	How Is a Plumbing Drawing Interpreted?	78 What Is a Septic Tank System? Part 1
35	What Is a Set of Plans?	79 What Is a Septic Tank System? Part 2
36	Who Approves the Construction Plans?	Unit 12 - Water Distribution Systems
37	Symbols Used in Plumbing and Mechanical Drawings	80 What Are Water Sources?
38	What Other Drawings Are Used in Plumbing?	81 Locating a Well
Unit (6 - Plastic Pipe and Fittings	82 What Is a Shallow Well?
39	Different Types of Plastic Pipe and Fittings	83 What Is a Submersible Pump?
40	Where Are Plastic Pipes Used?	84 What Is Water Treatment?
41	How to Measure, Cut, Join, and Support PVC Pipe	85 How to Size a Water System
42	How to Measure, Cut, Join, and Support CPVC Pipe	86 What Is Cross-Connection?
43	Measure, Cut, Join, and Support PEX Tubing	87 What Are Plumbing Codes?
44	Following Manufacturer's Instructions	