

# UNITED ASSOCIATION PLUMBERS (UAP)

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## **UAP 100 Introduction to Plumbing Practices (3 Credits)**

3 total contact hours

This course is the introduction to plumbing for new apprentices. Course topics include the heritage program, use and care of tools, pipe, fittings, valves, supports and fasteners, job safety and health, and soldering and brazing. Related safety is covered in all topics. Limited to United Association students. Level I Prerequisite: Academic Reading and Writing Levels of 6

## **UAP 102 Introduction to Arc Welding, Soldering and Brazing (3 Credits)**

3 total contact hours

This is the introductory course in welding, soldering and brazing. Topics include: safety in welding, cutting and allied processes, oxyacetylene cutting and welding, procedure for setting up oxy-fuel cutting and welding equipment. Related safety is covered in all topics. Limited to United Association students. Level I Prerequisite: Academic Reading and Writing Levels of 6

## **UAP 104 Drawing Interpretation and Plan Reading (2 Credits)**

2 total contact hours

This is an introductory course in drawing and reading blueprints. Course topics include: introduction to basic drawing tools, measuring tools, lettering skills, three-view, plan view, elevation view drawings, graphic symbols for pipe fittings and valves, interpretation of technical diagrams, piping drawings and interpretation of building plans and building specifications. Limited to United Association students. Level I Prerequisite: Academic Reading and Writing Levels of 6

## **UAP 106 Oxy Fuel Cutting and Shielded Arc Welding (2 Credits)**

2 total contact hours

All phases of welding are covered in this course beginning with oxyacetylene and oxy-fuel cutting and welding progressing through shielded metal-arc welding test procedures. Topics include tools, equipment, types of rod, weld positions, proper gaps, bevels and the various types of lap and butt joints. Safety is stressed throughout. Limited to United Association students. Level I Prerequisite: Academic Reading and Writing Levels of 6

## **UAP 108 Water Supply and Drainage (2 Credits)**

2 total contact hours

Water supply topics include: water treatment, water mains and services, building water supply systems and hot water supply. The course provides a detailed description of the purpose and function of the various components of a water supply system. The drainage portion of this course presents the various types of drainage systems installed and maintained by pipe trades journeyworkers. The course includes: sewage disposal, sewers and drains, building drainage systems, the plumbing trap and venting the drainage system. Limited to United Association students. Level I Prerequisite: Academic Reading and Writing Levels of 6

## **UAP 110 Customer Service Techniques (2 Credits)**

2 total contact hours

This training encompasses all aspects of customer service. Topics include customer relations, appearance and on-the-job conduct. Limited to United Association students. Level I Prerequisite: Academic Reading and Writing Levels of 6

## **UAP 112 Plumbing Fixtures and Appliances (3 Credits)**

3 total contact hours

This course presents the handling and installation of the various types of plumbing fixtures and appliances including information on accessories and fixture controls (flushmeters, faucets, etc). Limited to United Association students. Level I Prerequisite: Academic Reading and Writing Levels of 6

## **UAP 114 Plumbing Codes and Regulations (3 Credits)**

3 total contact hours

This course covers plumbing code construction, general use of codes and code application. Appropriate state, local, or provincial codes are reviewed. Limited to United Association students. Level I Prerequisite: Academic Reading and Writing Levels of 6

## **UAP 116 Medical Gas and Backflow Prevention Techniques (3 Credits)**

3 total contact hours

This course provides introduction to the concepts and procedures of Medical Gas installation. Topics include certification procedures and requirements for installers of medical gas systems, including brazer qualification. This course also presents the importance of backflow prevention and the dangers of cross connections. Topics include guidelines for acceptable testing practices, annual inspection and repair, and maintenance of backflow prevention assemblies used in modern plumbing installations. Limited to United Association students. Level I Prerequisite: Academic Reading and Writing Levels of 6

## **UAP 118 Advanced Plumbing Practices (3 Credits)**

3 total contact hours

This course addresses advanced plumbing practices including supervision/leadership, pipe systems design and advanced drawing procedures. Limited to United Association students. Level I Prerequisite: Academic Reading and Writing Levels of 6