

**PLUMBING APPRENTICE
(TECHNICAL AND INDUSTRIAL DIVISION - WORKFORCE TRAINING DEPARTMENT)**

PLAPR-100 PLUMBING THEORY IA (3 cr.) Plumbing apprenticeship is designed to teach students theory in plumbing while the student works with a journeyman plumber in the field. This entry level training provides information on the history of plumbing and the organizational structure in Idaho. Topics include basic math skills, terminology, and on the job safety including personal protective equipment, hand and power tools.

PLAPR-101 PLUMBING THEORY IB (3 cr.) Information from I-A continues with an introduction to the Uniform Plumbing Code, isometric drawings and blueprints reading, work ethics and responsibilities. Pre-requisite: PLAPR 100.

PLAPR-102 PLUMBING THEORY IIA (3 cr.) Information on safety in the workplace and plumbing theory continues. Students will advance knowledge of mathematics and blueprint reading. Pre-requisite: PLAPR 101.

PLAPR-103 PLUMBING THEORY IIB (3 cr.) Information on Code Applications builds on information previously given. Uniform Plumbing Code, Idaho Code, and Idaho's Addendum to the UPC are all covered. Pre-requisite: PLAPR 102.

PLAPR-104 PLUMBING PRACTICUM YEAR I (10 cr.) This practicum consists of 2000 hours of on the job training with a journeyman plumber. Students will obtain experience with basic plumbing tasks, hand and power tools, mathematics, isometric drawings and blue print reading. Students are responsible for finding employment with a journeyman plumber. Co-requisites: PLAPR 100 & PLAPR 101.

PLAPR-105 PLUMBING PRACTICUM YEAR II (10 cr.) This practicum consists of 2000 hours of on the job training with a journeyman plumber. Students will obtain experience working with mathematics onsite usage, blueprint reading and understanding Code applications. Students are responsible for finding employment with a journeyman plumber. Co-requisite: PLAPR 102.

PLAPR-200 PLUMBING THEORY IIIA (3 cr.) Safety continues to be stressed in the course. CPR & First Aid certification is included, or students must show a valid, current Red Cross or AHA card. Math calculations are instructed for pipe length, sheet metal work, and volumes, pressures, and capacities. Commercial blueprint reading and related math information is included. Pre-requisite: PLAPR 103.

PLAPR-201 PLUMBING THEORY IIIB (3 cr.) Basic understanding of the theory and term recognition for hydronics and boilers will be instructed. Special occupancy for fire penetrations and introduction to ADA specifications, understanding gas piping, sizing and venting and a continuation of the Uniform Plumbing Code. Pre-requisite: PLAPR 200.

PLAPR-202 PLUMBING THEORY IVA (3 cr.) Safety in the workplace review. Students will learn advanced math applications used in plumbing. Journeyman leadership, professionalism and job planning information is provided. Students will work with service and troubleshooting techniques. Pre-requisite: PLAPR 201.

PLAPR-203 PLUMBING THEORY IVB (3 cr.) Students receive a focused course on the Uniform Plumbing Code with interpretation, application, and memorization techniques. Included are the Uniform Plumbing Code, Idaho Code and Idaho Addendum to the UPC.

Pre-requisite: PLAPR 202.

PLAPR-204 PLUMBING PRACTICUM YEAR III (10 cr.) This practicum consists of 2000 hours of on the job training with a journeyman plumber. Students will obtain experience working with safety, pipe length calculations, sheet metal work, volumes, pressures, capacities, commercial blueprint reading and related math, theory and terms related to hydronics and boilers, practical applications of the Uniform Plumbing Code, special occupancy and understanding gas piping, sizing, and venting. Students are responsible for finding employment with a journeyman plumber. Co-requisites: PLAPR 200 & PLAPR 201.

PLAPR-205 PLUMBING PRACTICUM YEAR IV (10 cr.) This practicum consists of 2000 hours of on the job training with a journeyman plumber. Students will experience advanced math applications, leadership, professionalism in the workplace, and job planning. Also practice with service and troubleshooting and interpretation and application of the UPC, Idaho Code, and Idaho Addendum to the UPC. Students are responsible for finding employment with a journeyman plumber. Co-requisites: PLAPR 202 & PLAPR 203.