



Course Descriptions for Related Training (Plumbing)

Course 1: **Safety and Health**

13 Assignments

30 Study Hours

Company management established rules and procedures according to regulation that the government has set forth for your industry. Each employee must understand these rules and procedures and the importance of following them. This course follows basic construction related to Safety and Health practices and procedures.

Course 2: **Rigging**

8 Assignments

25 Study Hours

This course covers basic lifting techniques using hoists, slings, and special lifting devices. The course covers operating practices, twine rope, fiber rope, industrial hoists and cranes, and the safe use of scaffolds and ladders.

Course 3: **Practical Math**

11 Assignments

100 Study Hours

This textbook presents basic mathematical concepts typically applied in the industrial, business, and craft trade. By combining concise text with illustrated example of math problems, this text offers easy to understand instruction for solving math based problems encountered on the job.

Course 4: **Mathematics For Plumbers & Pipefitters**

18 Assignments

100 Study Hours

This textbook covers the essential math concepts used in the plumbing and pipefitting trades. With an emphasis on real world examples that will prepare the readers to successfully transfer their knowledge to on the job situations. This book utilizes the most current used fitting materials to demonstrate key concepts. Decimal and feet, inch conversion, capacity of vessels, piping offsets, and pipe and fitting measurements re covered in this course.

Course 5: **Building Trades Printreading**

12 Assignments

80 Study hours

This course covers print reading fundamentals and provides printreading activities related to residential construction. Also covered are conventional drafting, CAD (Computer Aided Design), symbols and abbreviation, plot plan, floor plan, elevations, section and details.

Course 6: Blueprint Reading/Drafting For Plumbers

9 Assignments
100 Study Hours

This course prepares the apprentice for transition from the residential plumbing industry to commercial or industrial projects. This text provides highly detailed, practice and relevant information that address the real-life demands of commercial and industrial job sites. Also covered are coordinating plumbing instruction using structural steel and civil blue prints.

Course 7: Modern Plumbing

13 Assignments
120 Study Hours

This course provides essential information about the tools, materials, equipment, and procedure encountered in the plumbing field. It includes the latest information on installation and repair techniques, as well as recent developments in materials, fixtures, and appliance.

Course 8: Plumbing Design & Installation

15 Assignments
120 Study Hours

This textbook and course is a comprehensive text used by apprentice and plumbing students to develop basic competence. This book describes the design, installation and testing of plumbing system in residential and commercial settings. Topics include the history of plumbing, plumbing codes, tools and materials and common jointing and installation procedures.

Course 9: Plumbing Technology

20 Assignments
100 Study Hours

This course offers information on the essential, introductory concepts, and progresses to more specific, advanced lessons, allowing the apprentice to develop a complete and through understanding of today's plumbing technology. This text covers the latest products, tools, codes, and drain cleaning equipment that has had a remarkable impact in the plumbing industry and how plumbers work successfully.

Course 10: Modern Hydronic Heating

11 Assignments
100 Study Hours

This text introduces today's technician to modern hydronic heating systems. It features the latest information on state-of-the-art techniques for use in residential and light commercial buildings, including radiant panels, injection mixing, primary and secondary piping, and advanced control methods. It is ideal in the heating trade from basic installers to design engineers.

Course 11: Planning DWV Systems

8 Assignments
50 Study Hours

This course offers a practical guide to planning and designing drainage, waste and vent systems. It helps you prepare plans for plumbing projects in both residential and commercial, private sewage disposal system, mobile home parks, and public restroom layout for physically handicapped. Emphasis is on designing systems that meet requirements for current plumbing codes.

Course 12: Piping Systems

11 Assignments
25 Study Hours

This course offers a review on basic piping systems theory and applications. Other topics covered are both metal and nonmetal piping, hoses, fittings, common valves, special valves, strainers, filters, traps, and piping accessories.

Course 13: National Plumbing and HVAC Estimator (2011)

6 Assignments
140 Study Hours

This course is a guide to estimating labor and material costs for a plumbing, heating, ventilating and air conditioning system in residential, commercial and industrial buildings.

Course 14: Uniform Plumbing Codes (2009)

18 Assignments
140 Study Hours

This course includes the current Plumbing Codes for the State of Montana along with a section covering the Montana Administrative Rules. These texts help the apprentice to understand the codes related to plumbing projects in both residential and commercial application. The course includes a work book that covers administration, definitions, general regulations, plumbing fixtures, water heaters, water supply and distribution, sanitary drainage, building sewer, indirect water, vents, traps and interceptors, storm drainage, medical gas, fire stop protection and mandatory reference standard.

Course 15: Plumber's Exam Preparation Guide

8 Assignments
60 Study Hours

This book assists the apprentice for the State of Montana Journeyman or Master Plumbing exam. Emphasis is on multiple choice questions. The text can be used as a study guide that will address many of the common questions found on current plumbing exam.