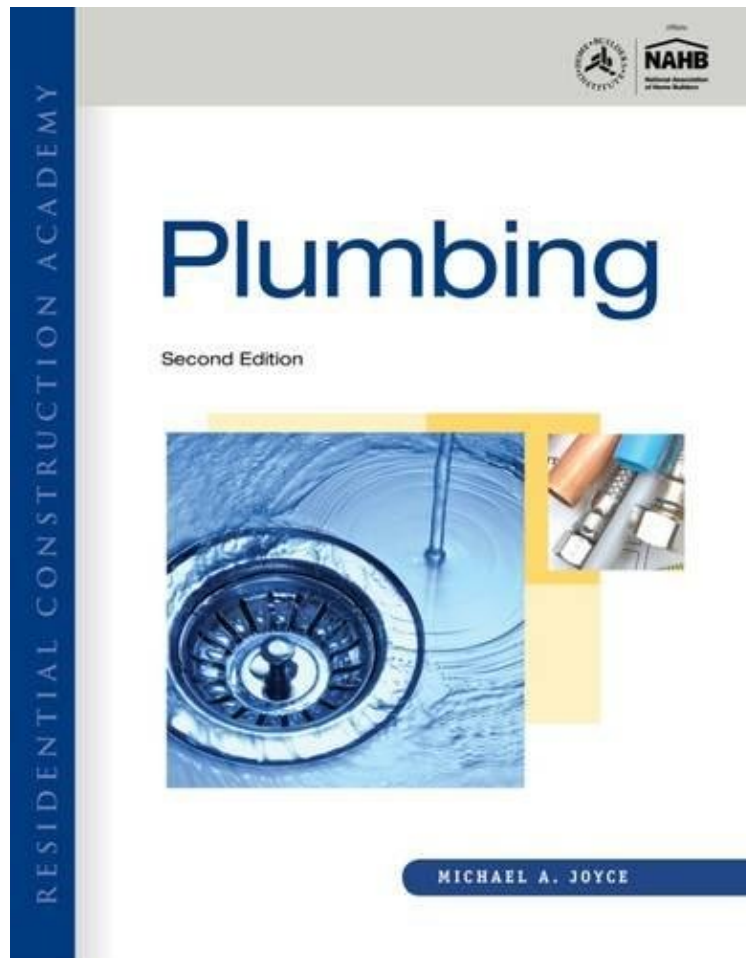


Residential Construction Academy: Plumbing

Michael A Joyce, Ray Holder

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RESIDENTIAL CONSTRUCTION ACADEMY: PLUMBING, 2E is the ideal book to create a direct link between readers' education/training program and the residential construction industry. The result of a strategic partnership between the National Association of Home Builder's (NAHB) Home Builders Institute and Delmar, Cengage Learning, the Residential Construction Academy Series is the perfect way to learn essential workplace skills for

readers new to the building trades. Written in partnership with the Home Builders Institute, and endorsed by NAHB, RESIDENTIAL CONSTRUCTION ACADEMY: PLUMBING, 2E provides a step-by-step approach to residential plumbing installations based on national skill standards. Focusing on "Green" advancement in the plumbing trades, this book thoroughly explains the process of installing residential plumbing systems by exploring topics such as tools of the trade and proper safety measures and by offering various tips to increase readers' on-the-job productivity. Logically organized to build a foundation of knowledge, this book progresses from the installation of common fixtures to troubleshooting techniques that will aid readers. An emphasis on creative layout and the importance of understanding code variations will foster readers' understanding of plumbing system installation that is based on typical situations as well as unique jobsite conditions.

1. Tools and Materials. 2. Hand Tools. 3. Power Tools. Pipe. Fittings. 4. Valves and Device. 5. Fixtures and Equipment. 6. Fixtures. 7. Faucets and Drain Assemblies. 8. Equipment Layout and Installation. 9. Blueprint Reading and Drafting. 10. Layout and Material Organization. 11. Water Service Installation. 12. Water Distribution Installation. 13. Drainage Waste and Vent Segments. 14. Drainage Waste and Vent Installation. 15. Fixture and Equipment Installation. 16. Troubleshooting. 17. Plumbing Repairs and Troubleshooting. 18. Hydronic Heating Systems.

About the Author Michael A. Joyce is a Class 1 licensed plumbing contractor in North Carolina with thirty three years of plumbing experience in commercial, industrial, and residential installations and repairs. He has authored several plumbing books and teaches a variety of plumbing seminars and classes throughout the country, including classes for the United States Pentagon, New York City hospitals and Plumbing-Heating-Cooling Contractors Association (PHCC) of NC. Currently the President of Joyce Company, Inc., Mr. Joyce is also the owner of the Plumbing Education Station at www.plumbingpro.org.

Ray Holder has worked in the electrical industry for more than 50 years as an apprentice, journeyman, master, field engineer, estimator, business manager, contractor, inspector, consultant, author, and instructor. He is a graduate of Texas State University and holds a Bachelor of Science degree in occupational education. A certified instructor of electrical trades, he has been awarded a lifetime teaching certificate from the Texas Education Agency in the field of vocational education. Mr. Holder has taught thousands of students at the University of Texas; Austin Community College; Odessa College; Technical-Vocational Institute of Albuquerque, New Mexico; Howard College at San Angelo, Texas; and in the public school systems in Fort Worth and San Antonio, Texas. He is currently the director of education for Electrical Seminars, Inc. Mr. Holder is a past member of the National Fire Protection Association and International Association of Electrical Inspectors, and a retired member of the International Brotherhood of Electrical Workers.