

Over 100,000 Satisfied Students and Counting

Plumbing & Pipefitting for Plants & Buildings™

A Practical Approach to Maintenance, Troubleshooting & Repairs

For a schedule of public seminars or to have this training brought directly to your facility, contact us @

1-877-97-TRAIN

www.AmericanTrainco.com

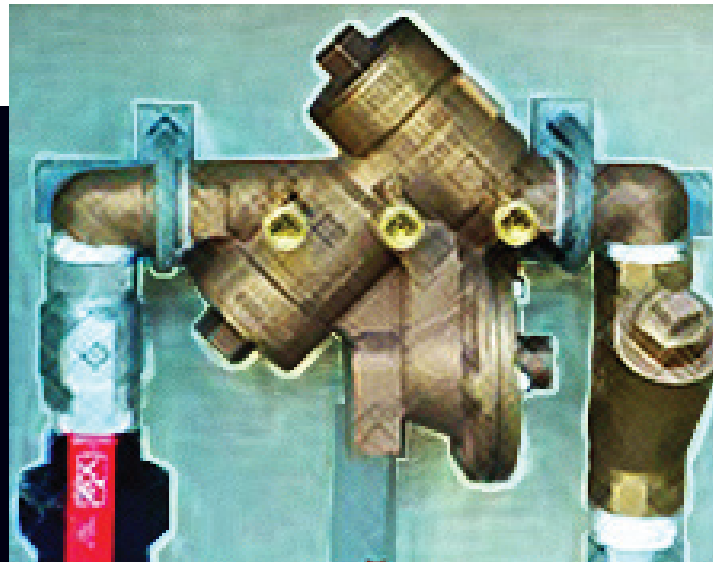
.....OR.....

Email Us At
Ed@AmericanTrainco.com

Reduce Dependence On Outside Service Contractors

LEARN TO:

- Troubleshoot, Repair, Assemble & Support Piping
- Fix Common Valve Problems
- Test Wet & Dry Piping Systems
- Read Plumbing & Piping Drawings
- Test & Fix Water Pressure Problems
- Work with Backflow Devices
- Find & Follow Plumbing Codes
- Implement a Plumbing & Pipefitting Maintenance Program



- This seminar can also be presented on-site at your facility. Email us at Ed@AmericanTrainco.com for a same day quote!
- Reserve your space now! **CALL 1-877-978-7246**
- Check us out online at **www.AmericanTrainco.com** for a complete listing of all seminars coming to your area



Plumbing & Pipefitting for Plants & Buildings

PURPOSE OF TRAINING

Regardless of what type of plant or facility you operate in, plumbing and piping systems are critical to keeping your building and equipment up and running at all times. When pipes or plumbing are inoperable, it not only can effect the way an entire facility operates, but it may even shut parts of it down. The purpose of this training is to provide in-house technicians and engineers the skills they need to keep plumbing and piping systems functioning at all times and how to recognize and repair common problems found in commercial buildings...without relying on outside contractors.

COURSE OVERVIEW

Students will walk away with a better understanding of plumbing & pipefitting troubleshooting, repair and maintenance for plants and facilities. The course covers the necessary requirements to follow code and safety regulations while providing the student with a practical foundation to quickly identify problems and solve them on their own, whether it's a low-pressure water supply line problem, drippy valve or a clogged drain trap. Emphasis is given to common and real-world issues as well as establishing best practices and processes for dealing with plumbing & pipefitting maintenance.

I. INTRO TO PLUMBING & PIPEFITTING

- A. Terms & Definitions
- B. Materials and Tools
- C. Safety Principles

II. READING PLUMBING & PIPEFITTING DRAWINGS

- A. Drawings & Detail Sheets
- B. Piping System Color Code Identification

III. CODES & REGULATIONS

- A. Finding & Following Plumbing Codes
- B. Sewer Requirements
- C. Prohibited Fittings & Practices
- D. Protection of Piping & Structures
- E. Seismic Restraint Requirements

IV. PIPING & PIPING SYSTEMS

- A. Piping Materials and Construction
- B. Pipe Sizing
- C. Pipe Lagging
- D. Fittings
- E. Expansion Joints
- F. Guides & Anchors
- G. Support and Labeling Requirements
- H. Excavation & Underground Systems

V. PLUMBING JOINTS & FITTINGS

- A. Types of Joints & Fittings
- B. Wiped
- C. Solvent Cement Plastic Pipe
- D. Flanged Fixture Connections
- E. Soldered Joints

VI. PIPING INSULATION

- A. Energy Loss
- B. Material Selection
- C. Sizing
- D. Asbestos Insulation
- E. Best Practices for Removing & Installing Insulation

VII. TESTING PIPING SYSTEMS & EQUIP.

- A. Pretests
- B. Service Flow Tests
- C. Head Pressure Tests
- D. Hydrostatic Tests
- E. Steam Blow Tests
- F. Drainage Lines

VIII. VALVE MAINTENANCE

- A. Types- Manual Control, Pilot Control & Automatic Operation
- B. Valve Storage & Handling
- C. Leakage
- D. Valve Testing
- E. Packing, Lapping & Adjustments
- F. Gasket & Washer Maintenance

IX. HOT TAPS

- A. Hot Tap Safety
- B. Repairing & Replacing Hot Tap Fittings

X. PLUMBING FIXTURES & APPLIANCES

- A. Strainers & Strainer Maintenance
- B. Overflows
- C. Connections
- D. Wall-Hung Fixtures
 - 1. Sinks, Toilets & Water Fountains
- E. Floor Drains
- F. Shower & Emergency Wash Stalls
- G. Prohibited Fixtures

XI. SANITARY & STORM DRAINAGE SYSTEMS

- A. ABS, PVC, Cast Iron & Other Materials
- B. Fittings
- C. Assigning Fixture Units to Plumbing Fixtures
- D. Sizing Drainage Lines and Venting the Piping Systems

XII. TRAPS

- A. Trap Seals
- B. Floor Drain Traps
- C. Prohibited Traps

XIII. CLEANOUTS

- A. Sizing and Location of Cleanouts
- B. Cleanout Maintenance

XIV. WATER DISTRIBUTION SYSTEMS

- A. Municipal Services
- B. Pressure
- C. Backflow-prevention
- D. Flushometer valves
- E. Water Pressure Regulation
- F. Water Hammer
- G. Water Conservation Equipment
- H. Potable Water Supply & Distribution
- I. Water Quality Problems & Solutions

XV. PLUMBING & PIPEFITTING MAINTENANCE PROGRAM

- A. Best Practices in Plumbing & Pipefitting Maintenance

Register Now —

1-877-978-7246

www.AmericanTrainco.com

ABOUT OUR TRAINING

Our training is designed with the student in mind. We know that they don't always have time to read and study volumes of literature so our manuals are quick and to the point, providing students the same charts, descriptions, pictures and bulleted items they'll see during the instructor's presentation. And because training people in just two days to keep their plant or facility up and running without injuring themselves or others is a serious challenge, our instructors have the freedom to tweak each session to the specific needs of the students in the class. They'll simplify subject matter for the novice and are prepared to go in-depth to answer a question from an engineer. We have over 125,000 hours of live classroom training experience using these methods, and it is why our students keep coming back.

ABOUT OUR INSTRUCTORS

All American Trainco™ instructors are required to have a formal education and real world work experience. They need to be leaders in their field. We don't hire field people without teaching experience, and we don't hire teachers without field experience. They must have both. And since attendees critique the instructor at the end of each class, a positive and enjoyable learning experience is virtually guaranteed.

ABOUT OUR COMPANY

We will teach over 2,100 seminars nationwide on more than 25 maintenance related topics, and over 20,000 students will attend our classes in the coming year. Our management

team has over 100 years collective experience in the maintenance training industry. If you haven't tried one of our seminars, isn't it about time you did?

WHO SHOULD ATTEND

Attendees to our seminars come from a wide variety of industries, skill-levels, company sizes, and job titles. Our classes are designed with this diversity in mind so you will fit right in. And while our classes are particularly valuable for people involved in multi-craft or cross training programs, anyone interested in this course topic will benefit.

CERTIFICATE OF COMPLETION

Upon completion of this seminar students will receive a Certificate of Completion and .7 CEUs (Continuing Education Units) approved by the Maintenance Training Association of the Americas.

UNAFFILIATED & NON-COMMERCIAL

Unlike some training experiences, you won't get a sales presentation at an American Trainco seminar — all you get is an honest, commercially unbiased education. We do not endorse or engage in the sale and promotion of any other supplier's products, so you know that by attending one of our seminars, your time and money is well spent.



SEMINAR FEE

One Day Seminar - \$595

SEMINAR TIMES

7:30 am Registration
8:00 am - 4:30pm Class

NO RISK REGISTRATION & MONEY-BACK GUARANTEE

If you're not yet sure you'll be able to attend this seminar, you can still make a reservation to hold your space in class. While payment is due prior to the start of the seminar, you may choose a full refund or credit for cancellations made at least 24 hours in advance. Student substitutions can also be freely made at any time prior to the start of the seminar.



P.O. Box 3397, Englewood, CO 80155

PROMOTION CODE

X05

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