

## Viega Industry Training Programs



The global leader  
in plumbing, heating  
and pipe joining systems

**viega**

“Tell me  
and I forget.  
Teach me and I  
may remember.  
Involve me  
and I learn.”

—Benjamin Franklin

- Hands-on and classroom training
- Variety of customizable programs
- Top-notch industry and technology training
- Training for range of experience levels
- Professional, experienced, engaging trainers
- Peer-to-peer networking
- CEUs available
- State-of-the-art facility near Boston
- Cost-effective
- Flexible classes from one day to five days
- Complete packages include travel, hotel, meals and tool



# Wide Variety of Training Programs

Attending Viega training programs is the best way to get up to speed on the latest technologies. Register online now at [www.viega.us/training](http://www.viega.us/training).

## FEATURED PROGRAMS



### Repiping with PEX Systems (One Day)

This course will cover the removal and replacement of existing residential plumbing systems with innovative time saving technology. Product solutions for various installation methods along with finishing

options will be discussed regarding the use of PEX for potable plumbing systems. The three different methods of installing PEX piping in a retrofit will be discussed and those are: parallel, combination and branch and tee. Each method has unique features and challenges and these will be discussed. In addition, this course provides hands-on tubing installation giving installers an understanding of how to properly install PEX systems.



### Copper Press Technology (Half/One-Day options)

This course will cover the use of copper press systems for plumbing, heating and hydronic piping systems. Topics will include technical information on press technology and fittings, as well as applications and installation practices. Attendees will leave with a greater understanding of the advantages of copper press fittings vs. traditional joining methods and how they can use press pipe joining technology to increase efficiency and profits.



### Stainless Steel Press Technology (Half/One-Day options)

This course will cover the use of stainless steel press systems for commercial and industrial plumbing, heating and piping applications. Properties and chemical compatibility of both 304 and 316 stainless

steel will be covered. Attendees will leave with a greater understanding of the advantages of press pipe joining technology, as well as the ability of these systems to increase installation efficiency and decrease downtime.



### Carbon Steel Press Technology (Half/One-Day options)

This course will cover the use of carbon steel press systems for residential, commercial and industrial piping applications. Applications including gas and hydronics will be covered along with many

others. Attendees will gain a greater understanding of the advantages of press pipe joining technology over traditional methods through practical examples and hands-on demonstration.



### Marine Press Technology (Half/One-Day options)

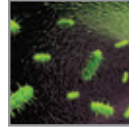
This course will cover the use of copper, stainless steel, carbon steel and copper nickel fittings within the shipbuilding and offshore industries. Approvals, applications and installation methods will be covered.

Attendees will leave with a greater understanding of the applications and benefits of press pipe joining technology vs. traditional methods.



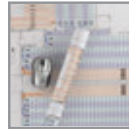
### Gas Fitters Continuing Education (Three Hours)

This course covers ProPressG and MegaPressG press-connect technology utilized for gas distribution systems. This course will cover the different press-connect fittings approved for gas distribution systems, along with code compliance and listings, installation practices and how to commission a system properly. Upon completion, participants will have a complete understanding of how to properly install press-connect fittings and receive a credential card, which is required by some jurisdictions in order to install these gas systems. Hands-on pressing as well as pipe sizing will be included in this seminar.



### Pathogen Prevention (One Day)

This course addresses the issue of plumbing hygiene. Potential pathogens found in public and private plumbing systems and their causes will be covered. Students will be taught the cause and prevention of these pathogens. State-of-the-art plumbing design practices will be taught to prevent these pathogens before they begin. Upon completion, attendees will understand how to prevent these pathogens utilizing current piping technology and methods in the industry.



### Radiant Design (One Day)

This course will cover heat loss and panel design for radiant heating systems. Students will perform proper heat loss calculations to include: walls, windows, doors, infiltration and slab loss. Along with a heat loss calculation to determine BTU output, students will understand panel design, circuit lengths, flow rates and pressure drops. Upon completion, students will leave equipped with the knowledge to generate a heat loss calculation and panel design.

*\*Please note, heat loss calculations are limited to residential applications only. Panel design can be used for both commercial and residential applications.*



### Solar Thermal Systems (One Day)

Students will be introduced to the energy saving practices of utilizing solar thermal panels as a full or partial heat source. During this course, panel type selections, sizing and placement will be covered, as well as piping to a distribution system with or without alternative heat source. Performance expectations along with potential energy credits will also be discussed.



### Geothermal Systems (One Day)

This course will cover water-to-water as well as water-to-air systems. Geothermal loop systems including earth ground loops both horizontal and vertical, pond loops and other systems will be discussed. Included will be field sizing, layout requirements in addition to pump sizing. Students will leave with a better understanding of the design installation and application of geothermal systems.



### Hydronics 101 (One Day)

This course will provide students with a basic understanding of how hydronic system components work individually and as a complete system, as well as the different options that are available in the industry. This course will also allow you to expand your knowledge of radiant installation options. Students will leave with an understanding of the functionality of hydronic heating systems along with the features and benefits of radiant systems and the ability to estimate materials for a variety of applications.



### NFPA 13D Fire Sprinkler (Two Day)

Attendees of this class will become familiar with the benefits of residential fire protection systems, along with the materials that can be used for installation. This course will also provide a comprehensive review of NFPA 13D: Standard for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes. Instruction will be facilitated both in a classroom environment as well as a hands-on lab. Students will be shown basic design principles, in addition to various installation techniques for installing residential PEX fire protection systems. Each participant will leave with an understanding of the application, design and installation of an NFPA 13D fire sprinkler system.



### Radiant Systems (Two Day)

This course will provide students with a foundation for developing an understanding of an entire radiant system. Upon completion, all attendees will have a basic understanding of various installation methods and applications used within the industry along with the advantages and functionality of radiant heating systems. Students will gain firsthand installation experience allowing them to understand the fundamentals of generating a bill of materials.



### LoopCAD® Radiant Heat Loss & Design (Two Day)

This course will provide firsthand experience using LoopCAD software for residential heat loss and design for radiant heating systems. Students will perform complete heat loss calculations utilizing ASHRAE, CSA and ACCA Manual J 8th Edition through LoopCAD software. Upon completion, students will understand the features and benefits from using LoopCAD for heat loss calculations, panel design, circuit layouts, temperature groups, manifold locations, surface temperatures and bill of materials. In addition, students will be able to determine the appropriate control strategies for different radiant applications.



### Radiant Piping & Controls (Two Day)

Students who attend this class should have attended radiant systems and/or have a basic working knowledge of hydronics. This course will focus on the various piping and control strategies available and utilized for radiant heating systems. Students will gain an understanding of the various components used within the piping arrangement of a radiant hydronic system along with pipe sizing, performance and the advantages and disadvantages of one strategy versus another. Upon completion, students will be able to determine the appropriate piping and control strategy necessary for each individual job.



### Commercial Radiant Heating & Cooling (Two Day)

This course will cover system design considerations for commercial radiant heating and cooling systems. Students will learn installation applications and piping and controls. In addition, efficiency comparisons vs. traditional heating and cooling methods will be addressed.



### Snow & Ice Melting (Two Day)

This class will take an in-depth look at the design and installation of hydronic snow and ice melting systems. Students will walk away with an understanding of how a snow and ice melt system is facilitated and designed, along with different installation practices. In addition, attendees will learn various piping and control options and how to calculate operating costs.



### Radiant & Hydronic Troubleshooting (Two Day)

This course will provide designers, installers, service technicians and any other technical support personnel with the necessary information and hands-on training to properly diagnose various problems that may occur within a radiant hydronic heating system.



### Radiant Week (Five Day)

This course is comprised of a combination of multi-day courses culminating in a week-long radiant experience. Students will cover: Radiant Design, LoopCAD Radiant Heat Loss & Design and Radiant Piping & Controls.



### Small Business Startup (Multiple Days)

This course is customized for those contractors looking to branch out on their own. Topics covered include: Being your own boss, types of small business structures, covering your costs, labor pricing for profit and more. Upon completion, contractors will have a greater understanding of what it truly entails to own and operate their own business. This course is meant to equip contractors with tools that will help them begin their career on their own if they choose to move forward with a startup.

“Supposing is good,  
but finding out is better.”

—Mark Twain

## SCHEDULE INFORMATION

### ONE-DAY CLASSES

Day One ..... 8:30 a.m.-4:00 p.m.

### TWO-DAY CLASSES

Day One ..... 8:30 a.m.-4:00 p.m.

Day Two ..... 8:30 a.m.-2:30 p.m.

### THREE-DAY CLASSES

Day One ..... 8:30 a.m.-4:00 p.m.

Day Two ..... 8:30 a.m.-4:00 p.m.

Day Three ..... 8:30 a.m.-2:30 p.m.

### FIVE-DAY CLASSES

Day One ..... 8:30 a.m.-4:00 p.m.

Day Two ..... 8:30 a.m.-4:00 p.m.

Day Three ..... 8:30 a.m.-4:00 p.m.

Day Four ..... 8:30 a.m.-4:00 p.m.

Day Five ..... 8:30 a.m.-2:30 p.m.

## PRICING *(includes meals)*

One Day ..... \$75

Two Day ..... \$125

Three Day ..... \$225

Five Day ..... \$300

### ADD ON

Hotel ..... \$150

Airfare ..... \$225

Tool ..... \$100

## GAS FITTERS CONTINUING EDUCATION

*(training only)*

Pre-register ..... \$25

At the door ..... \$30

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to fit your every need

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or to register for classes, please go to:

[www.viega.us/training](http://www.viega.us/training)

**1-877-843-4262 ext. 200**

**603-882-7171 (option 4)**

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