

# J-TEC

**JAY BLAUSHILD**  
TRAINING & EDUCATION CENTER



# PROGRAM GUIDE



**FAMOUS**  
UNIVERSITY®

***“Knowledge is power  
when you apply it”***

**-Jay Blaushild**



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## WHAT MAKES US FAMOUS



**FAMOUS**  
UNIVERSITY®

**Famous University** is built for contractors and industry professionals who want training that **delivers real results**, not just certificates. Our **industry-leading** HVAC, plumbing, and hydronics education combines hands-on labs, live virtual classes, and real equipment training, so you and your team are ready for the job, not just the exam.

**Earn required CEUs faster** with state-approved courses that simplify license renewal and count towards State of Ohio certification. Train your way with flexible specialty lab hands-on, in-person, Zoom, expo, and symposium options that fit your schedule and **minimize downtime**.

Famous University Membership helps you train more while spending less, unlocking **unlimited or discounted training**, free 608 Refrigerant Certification seats, Build-A-Tech discounts, speaker series access, and on-site training options. With right-sized membership tiers, you get **practical education**, real savings, and a smarter way to keep your business competitive.

### Famous University Highlights:

- Since **1933**
- **350+** Courses
- **23** Classrooms
- Combined **500+** Years Training Experience



## A NEW ERA OF INDUSTRY TRAINING



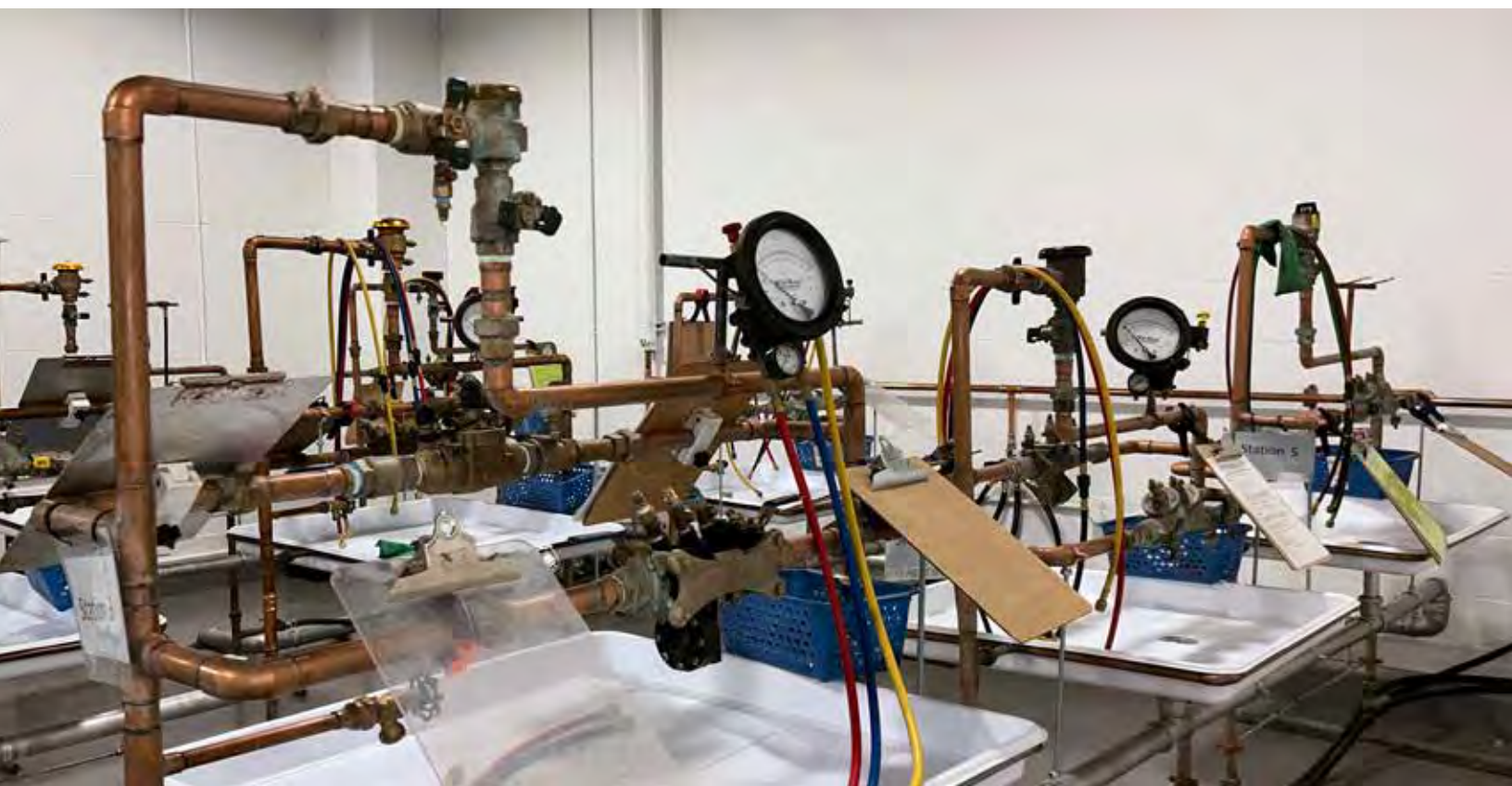
The Jay Blaushild Training & Education Center (J-TEC) is a state-of-the-art training facility designed to support the evolving needs of HVAC, plumbing, and hydronics industry professionals.

Attached to Famous Supply's Cleveland Regional Distribution Center, J-TEC was purpose-built to deliver **immersive, real-world education** for both seasoned tradespeople and those entering the industry. The center reflects Jay Blaushild's belief that professional growth is a continuous journey, **providing a modern environment** where learning, innovation, and workforce development come together.

A combination of **fully-equipped labs and classrooms** makes J-TEC a premier destination for hands on trade education. Training labs support a wide range of **residential and commercial applications**, including HVAC installation and maintenance, refrigeration certification, ductless mini-splits, tank and tankless water heating, boilers, hydronics, backflow prevention, and HVAC electrical controls and low-voltage wiring.

### J-TEC Highlights:

- **25,000** square feet
- **12** fully-equipped Specialty Labs
- **3** classrooms
- Multi-purpose Legacy Event Room
- Expert Speaker Series
- Product & Technical Symposiums
- Leadership & Business Conferences





## MEET THE FAMOUS UNIVERSITY TEAM

Behind every class, lab, and training experience is a team of **seasoned industry professionals** committed to your success. The Famous University team brings decades of real-world experience across HVAC, plumbing, hydronics, and building systems, **delivering hands-on education**, expert guidance, and practical solutions you can apply immediately on the job.

From instructors and technical specialists to training coordinators and support staff, our team is here to help you build skills, earn certifications, and **stay ahead in a rapidly evolving industry**.



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## GETTING STARTED

### Famous University makes it easy to enroll & register.

Explore hands-on labs and course offerings built specifically for contractors.  
Choose the membership option that fits your business and enroll in just a few simple steps.

### Getting started is simple:

1. View available courses and membership options
2. Complete the online membership enrollment form
3. Get a quick call from a Famous University associate to confirm your membership
4. Register for classes
5. Reap the benefits of expert training, real-world skills, and a stronger business

### Prefer pay-as-you-go training?

A la carte courses do not require enrollment;  
simply register for the training you want and pay as you go.

### Questions?

We're happy to help. Reach our Famous University  
and J-TEC Teams at **216-238-4820**.



**Explore our training  
options & register online!**



## 1 DAY FREE ACCESS

### TRY BEFORE YOU BUY.

Experience a day of complimentary  
training for two people.

**5700 Lee Rd. S, Maple Heights, OH**

Limit one redemption per company. Limit two individuals per company.  
Excludes third party classes. Expires 12/30/26.

**REDEEM YOUR  
FREE ACCESS DAY**

*Call J-TEC Team*  
**216-238-4820**

**VIEW TRAINING  
SCHEDULE**



[famous-supply.com/contractor-training](https://famous-supply.com/contractor-training)



# FAMOUS UNIVERSITY MEMBERSHIP

Famous University Membership gives you and your team practical training, certifications, and **leadership resources** to run a stronger, more efficient business. Whether you're in the truck every day or managing a growing team, you get **flexible access to hands-on training** and real-world education without overpaying for extras you don't need.

Members gain access to J-TEC hands-on labs, **in-person and virtual training**, included certifications, and exclusive events. Higher tiers unlock on-site training and facility access to help standardize your operation and scale with confidence.

## Membership Levels

- **Founders & Elite:** Maximum access for larger teams and training-driven companies
- **Premier & Pro:** High-value options for small-to-mid-size companies
- **A La Carte:** Pay-as-you-go access for occasional training or events

## Automatic Annual Renewal

Your enrollment will automatically renew on an annual basis unless cancelled prior to the renewal date. You may cancel at any time before renewal to avoid charges.

## Questions?

Tell us your company size and goals, we'll help you choose the right tier.

**Emily Black**  
J-TEC Customer Experience Manager  
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216-903-5171

## 2026 Introductory Offer!

## Jay Blaushild Founders

**\$1,500** per month

**\$2,500/month**

<b>Specialty Labs</b> Hands On Labs, Half-Day, Full-Day, & Multi-Day Trainings	Unlimited FREE	Monthly Value \$2,000
<b>Classes</b> Hands-on Classroom & Zoom Training	Unlimited FREE	Monthly Value \$1,000
<b>Free Seminars</b>	Unlimited FREE	
<b>Speaker Series</b>	6 FREE Tickets + Exclusive Private Reception with Speaker	Monthly Value \$200
<b>Symposium &amp; Expo Classes</b>	Unlimited FREE	Annual Value \$100
<b>Build-A-Tech</b>	25% OFF First (4) People	Annual Value \$3,000
<b>608 Refrigerant Certification</b>	4 FREE per Year \$99 / add'l person	Annual Value \$400
<b>Customized Contractor Location Training</b>	16 FREE Hours	Annual Value \$5,400
<b>Leadership, Coaching &amp; Culture Workshops</b>	2 FREE Workshops	
<b>Contractor Tool Discount</b> (Milwaukee, Appion, UEi, & more)	Discounts Provided During Lab Training	
<b>Classroom &amp; Lab Rental</b> Subject to Availability & Capacity	Unlimited FREE	Annual Value \$2,000
<b>Legacy Event Center Room Rental</b> 150-320 Capacity Subject to Availability	2 FREE Days	Annual Value \$4,000
<b>Total Estimated Value</b>		<b>\$53,300</b>

Famous Elite		Famous Premier		Famous Pro		A La Carte
\$1,000 per month		\$500 per month		\$150 per month		\$0 per month
\$1,750/month		\$1,000/month		\$400/month		—
6 FREE / Month + 30% OFF Additional Labs	Monthly Value \$1,200	4 FREE / Month + 20% OFF Additional Labs	Monthly Value \$800	2 FREE / Month + 10% OFF Additional Labs	Monthly Value \$400	\$200 - \$750 / Lab
10 FREE / Month	Monthly Value \$500	5 FREE / Month	Monthly Value \$250	2 FREE / Month	Monthly Value \$100	\$35 - \$199 / Class
Unlimited FREE		Unlimited FREE		Unlimited FREE		Unlimited FREE
4 FREE Tickets	Monthly Value \$150	2 FREE Tickets	Monthly Value \$100	1 FREE Ticket	Monthly Value \$50	\$25 - \$75 / Ticket
Unlimited FREE	Annual Value \$50	Unlimited FREE	Annual Value \$50	\$25 / Class		\$50 / Class
25% OFF First (3) People	Annual Value \$2,250	25% OFF First (2) People	Annual Value \$1,500	25% OFF First (1) Person	Annual Value \$750	\$5,000
3 FREE per Year \$99 / add'l person	Annual Value \$300	2 FREE per Year \$99 / add'l person	Annual Value \$200	1 FREE per Year \$99 / add'l person	Annual Value \$100	\$99 / Person
12 FREE Hours	Annual Value \$4,200	8 FREE Hours	Annual Value \$2,800	4 FREE Hours	Annual Value \$1,400	\$350 / Hour
—		—		—		—
Discounts Provided During Lab Training		Discounts Provided During Lab Training		Discounts Provided During Lab Training		Discounts Provided During Lab Training
6 FREE Days	Annual Value \$2,000	—		—		—
1 FREE Day	Annual Value \$2,000	—		—		—
\$33,000		\$17,650		\$7,475		\$ for \$

## TRAINING SCHEDULE

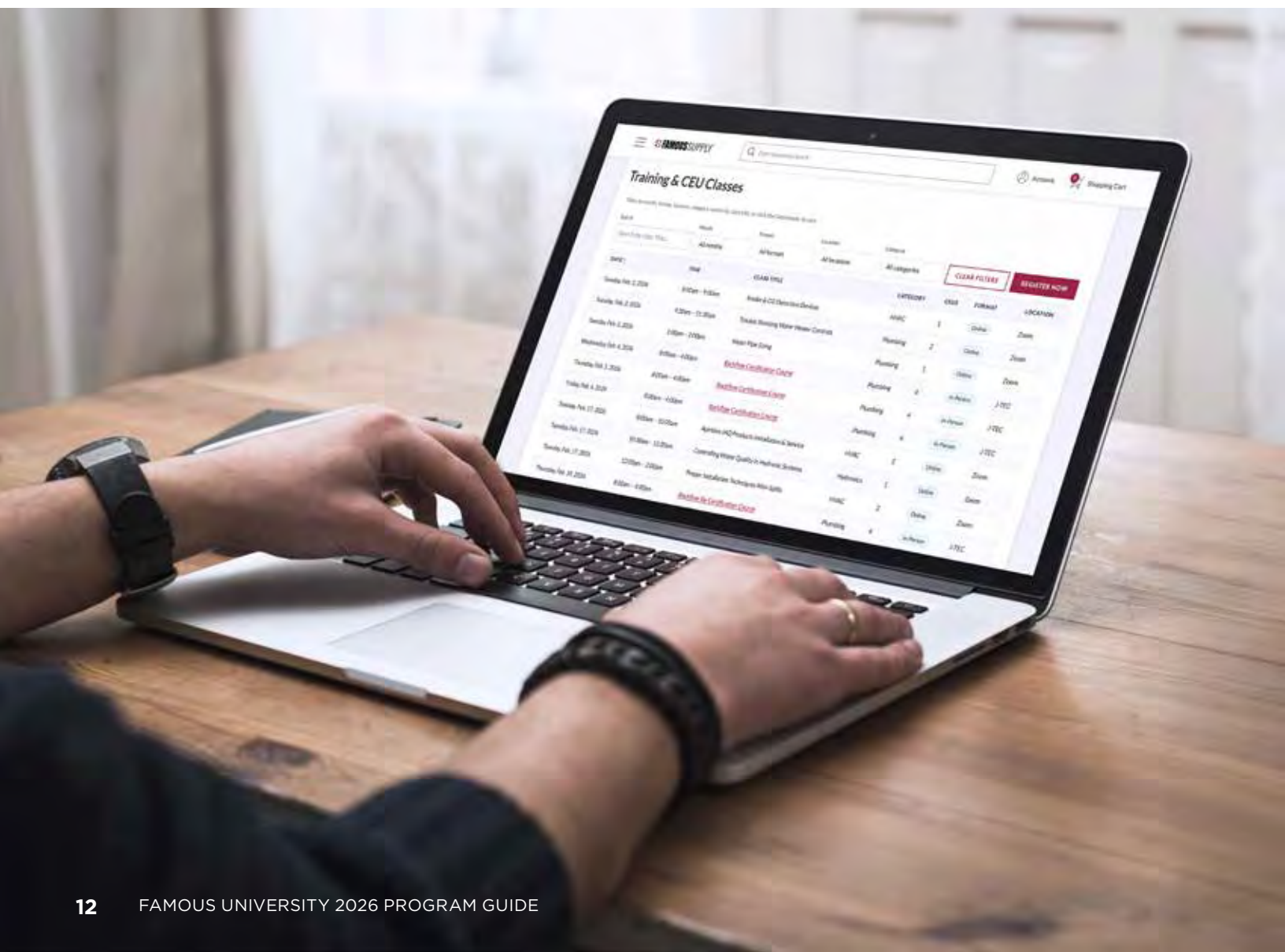
The training schedule is your **central resource** for exploring upcoming classes, events, and educational opportunities offered through Famous University at J-TEC and branch classrooms. The calendar **provides a complete view** of scheduled training, including technical courses, hands-on labs, symposiums, speaker series, and special events.

Each listing **includes key details** such as course descriptions, dates, locations, and registration information. Users can easily browse by topic or date to find training that fits their goals and identify CEU-eligible courses directly within the calendar. The training schedule is **regularly updated**, making it the best place to plan, register, and stay informed about upcoming learning opportunities.



**NEW CLASSES BEING ADDED DAILY**

**Visit [famous-supply.com/contractor-training](https://famous-supply.com/contractor-training)  
or scan the QR Code to explore the training schedule.**



## TRAINING LOCATIONS

Famous University offers training opportunities not only at the J-TEC facility, but also at several branches throughout the Famous Supply footprint.



12 SPECIALTY LABS, 3 CLASSROOMS, EVENT SPACE

216-238-4820

5700 Lee Rd S, Maple Heights, OH



## CEU CERTIFICATION

Famous University is a **recognized leader** in professional trade education, offering the largest number of plumbing and HVAC CEU training opportunities in the State of Ohio. This comprehensive program overview along with our online training schedule identifies CEU eligible opportunities, **making it easy** for contractors to plan, track, and maintain required certifications.

### FAMOUS SUPPLY BRANCH CLASSROOMS:

#### **Byesville**

740-421-4758  
354 West Main  
Byesville, OH

#### **Medina**

234-378-9505  
160 Commerce Dr.  
Medina, OH

#### **Cleveland East**

216-881-5700  
6420 Woodland Ave.  
Cleveland, OH

#### **Mentor**

440-391-5000  
7300 Industrial Park Blvd.  
Mentor, OH

#### **Cleveland West**

216-529-1010  
11200 Madison Ave.  
Cleveland, OH

#### **Newark**

740-345-9617  
25 South 11th St.  
Newark, OH

#### **Columbus East**

614-294-3500  
1356 Cleveland Ave.  
Columbus, OH

#### **Sebring**

330-938-6350  
350 Courtney Rd.  
Sebring, OH

#### **Columbus RDC**

614-643-2377  
711 Distribution Dr.  
Columbus, OH

#### **Steubenville**

740-282-0951  
934 W. Adams St.  
Steubenville, OH

#### **Dayton**

937-242-6980  
1054 Gateway Dr.  
Dayton, OH

#### **Toledo**

419-478-0343  
220 Matzinger Rd.  
Toledo, OH

#### **Erie**

814-341-1516  
3003 Pittsburgh Ave.  
Erie, PA

#### **Uniontown**

724-437-9806  
85 Pittsburgh St.  
Uniontown, PA

#### **Fremont**

419-332-2636  
641 South Front St.  
Fremont, OH

#### **Washington**

724-225-8330  
1110 W Chestnut St.  
Washington, PA

#### **Jamestown**

716-815-6450  
2148 Allen St., Ext.  
Falconer, NY

#### **Wheeling**

304-232-3310  
2300 Market St.  
Wheeling, WV

#### **Johnstown**

814-304-1776  
2148 Allen St., Ext.  
Johnstown, PA

#### **Youngstown**

234-706-3525  
886 E. Midlothian Blvd.  
Youngstown, OH

#### **Lorain**

441-245-6874  
125 East 20th St.  
Lorain, OH

#### **Youngwood**

724-440-4021  
72 E. Hillis St.  
Youngwood, PA



## 12 SPECIALTY LABS EXCLUSIVELY AT J-TEC



The Jay Blaushild Training & Education Center (J-TEC) features **12 dedicated specialty labs** designed to deliver hands-on, real-world training across HVAC, plumbing, hydronics, controls, and water heating disciplines. Each lab is **equipped with live systems** and manufacturer-supported equipment that allow technicians to **move beyond theory** and develop practical skills through structured installation, commissioning, troubleshooting, and verification activities.

J-TEC labs support progressive learning from foundational concepts to advanced diagnostics, with **instruction aligned to industry standards**, manufacturer requirements, and inspection expectations. Training emphasizes safe work practices, measurement-based verification, and **repeatable workflows** that technicians can apply immediately in the field. Together, the labs provide an **immersive environment** that supports skill development, certification preparation, and consistent training outcomes across residential, commercial, and specialty systems.

### Residential Unitary Lab 1

Focused on residential split systems and unitary equipment, this lab supports hands-on training in installation, startup, airflow verification, refrigerant charging, and basic troubleshooting. Lab is equipped with technology to simulate outdoor conditions for heat pump training. Courses emphasize proper setup, measurement-based diagnostics, and verification of system performance in real-world residential applications.



### Residential Unitary Lab 2

Designed for intermediate and advanced residential training, this lab is used for troubleshooting, commissioning, and performance optimization of unitary HVAC systems. Lab is equipped with technology to simulate outdoor conditions for heat pump training. Instruction includes diagnosing airflow, electrical, and refrigerant-related faults using structured workflows and validation techniques.



## Commercial Lab

Supports training on light commercial HVAC equipment, including rooftop units and make-up air systems. Courses emphasize sequence of operation, startup and commissioning, airflow and combustion verification, and systematic troubleshooting aligned with commercial service and inspection requirements.



## Hydronic Lab

Dedicated to hydronic heating systems, this lab supports hands-on training in boiler piping, pump and circulator operation, zoning strategies, mixing, and system commissioning. Instruction focuses on proper system design concepts, diagnostics, and verification methods used in residential and commercial hydronic applications.



## Midea Lab

Provides hands-on training for Midea ductless and mini-split systems, including installation, commissioning, and diagnostics. Courses emphasize correct application, piping and wiring practices, evacuation and charging procedures, and troubleshooting common performance and communication issues.



## Breeze33 Lab

Used exclusively for Breeze33 equipment training, this lab supports installation, startup, commissioning, and advanced diagnostics for ductless, inverter, and unitary systems. Instruction emphasizes manufacturer-specific requirements, A2L considerations, precision setup, performance validation, and documentation.



## Controls & Electrical Lab

Focused on HVAC and hydronic controls, this lab supports training in electrical fundamentals, wiring diagrams, low-voltage controls, zoning, and advanced troubleshooting. Courses emphasize safe meter use, sequence-of-operation analysis, fault isolation, and verification of control performance.



## Water Heater Lab

Supports residential and commercial water heater training across electric and gas platforms. Instruction includes product selection, installation, startup, diagnostics, and troubleshooting, with emphasis on manufacturer requirements, safety considerations, and inspection readiness.



## Backflow Lab

Dedicated to backflow prevention training, this lab supports hands-on instruction in device identification, installation requirements, testing procedures, and certification preparation. Courses emphasize compliance, documentation, and proper testing techniques using approved equipment.



## MagicPak Lab

Focused on MagicPak® combination heating and air conditioning systems, this lab supports advanced troubleshooting of both heating and cooling components. Instruction includes diagnosing gas, electrical, and control issues on the heating side, and refrigeration circuit diagnostics on the cooling side, using live equipment and structured workflows.



## Unico Lab

Dedicated to high-velocity HVAC systems, this lab supports training in system application, installation practices, airflow considerations, and diagnostics unique to Unico systems. Courses emphasize avoiding common misapplication issues and verifying proper system performance.



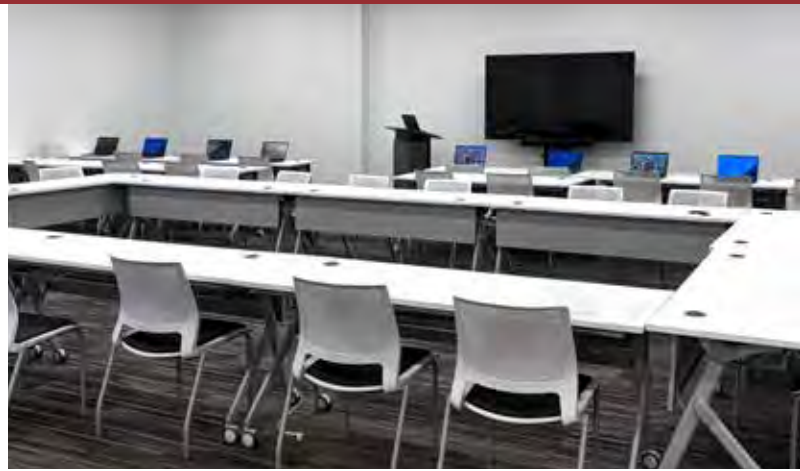
## Boiler Lab

Supports advanced boiler training for residential and commercial applications, including gas, electric, and high-efficiency systems. Instruction focuses on installation, startup, combustion testing, controls integration, troubleshooting, and performance verification using industry best practices.



## CLASSROOMS

The classrooms at J-TEC are purpose-built learning environments designed for focused, **professional training** and knowledge-based instruction. These spaces support classroom-style education, presentations, and group discussion, making them **ideal for technical theory**, product education, code updates, and business-focused training for trades professionals.



## LEGACY EVENT ROOM

The Legacy Event Room at J-TEC is a **premier gathering space** designed to host high-impact events for the trades and beyond. With seating for **over 300 attendees**, the room serves as the home for dealer meetings, leadership summits, speaker series, symposiums, and special events. Its flexible layout and modern amenities create an ideal environment for large-scale presentations, networking opportunities, and **immersive learning experiences that bring the industry together**.



## EXPERT SPEAKER SERIES

The J-TEC Speaker Series features respected **leaders and innovators** who share insights on industry trends, business growth, leadership, and the future of the trades. Designed to **inspire and inform**, these sessions provide attendees with fresh perspectives, practical strategies, and the opportunity to learn from voices shaping the industry.



## PRODUCT & TECHNICAL SYMPOSIUMS

J-TEC Symposiums function as **mini trade shows**, bringing manufacturers, factory representatives, and trade professionals together in a highly **interactive setting**. Attendees can engage face-to-face with manufacturer reps at tabletop displays, explore new products and technologies, and participate in focused technical sessions and demonstrations. These events also create valuable networking opportunities, allowing contractors and technicians to connect with peers, suppliers, and industry experts while **gaining practical insights** they can apply immediately in the field.



## LEADERSHIP & BUSINESS CONFERENCES

J-TEC events provide a versatile, professional setting for dealer meetings, leadership gatherings, and **industry-focused events designed to inform**, connect, and inspire. From strategic dealer sessions to business, and technology-driven conferences, these events create meaningful opportunities to learn from industry experts, gain practical insights, and engage in expert-led discussions. Each experience is built to support **engagement and shared learning** in a modern, professional environment.





## **Basic Financials, Pricing & Breakeven**

Intermediate | Classroom | 3 hrs | \$70 | OCILB

Understand the math behind pricing and breakeven using real-world service and install scenarios. Students will learn financial best practices for common field challenges and walk away with the tools to verify that every job is profitable.

*Brands: Multiple*

## **Contractor Estimating**

Intermediate | Classroom | 3 hrs | \$70

Refine your bidding process by mastering estimating basics, including labor costing, material takeoffs, overhead, and margins. Students learn how to build consistent estimates that protect profitability while remaining competitive.

## **Customer Experience Excellence**

Apprentice | Classroom | 2 hrs | \$60

Explore the professional habits and communication skills that keep customers happy and schedules full. Students learn how to set clear expectations on the job site and explain recommendations in a way that earns trust and repeat business.

## **Exit Strategies & Succession Planning**

Intermediate | Classroom | 4 hrs | \$80 | OCILB

Understand the financial and operational requirements for a successful exit from the trade. This course covers common transition challenges and the best practices business owners use to protect their legacy and secure their financial future.

*Brands: Multiple*

## **Intro to Careers in the Skilled Trades**

Apprentice | Free Classroom/Zoom Seminar | 1 hr

Explore the different career paths available in HVAC, plumbing, and hydronics. Students learn about the daily realities of the field and the long-term growth opportunities available to those just starting their professional journey.

## **Leadership for Owners & Managers**

Advanced | Classroom | 4 hrs | \$80

Master the leadership systems that drive consistency, including team communication, tracking key numbers, and accountability. Students learn practical ways to improve decision-making and verify that every team is hitting their goals.

## **Building Preventative Maintenance Programs**

Intermediate | Classroom | 2 hrs | \$60

Master the strategy behind structuring recurring maintenance offerings that stabilize revenue and improve customer retention. Technicians learn how to design profitable programs, set pricing models, and develop the administrative workflows required for long-term success.

## **Customer Communication for Technicians**

Apprentice | Classroom | 2 hrs | \$60

Learn how to explain technical issues in plain language and present options without pressure. This course builds your confidence in handling objections and setting clear expectations to create a better experience for the customer and the company.

## **Executing Preventative Maintenance Programs**

Intermediate | Classroom | 2 hrs | \$60

Focus on the field-level implementation of maintenance agreements to ensure consistency and service quality. Technicians learn best practices for scheduling, thorough documentation, and the specific on-site workflows that drive program profitability.

## **How Preventative Maintenance Protects Profit**

Intermediate | Free Classroom/Zoom Seminar | 2 hrs

Discover how a solid maintenance strategy shifts a business from reactive repairs to steady, predictable revenue. Students learn how to build a consistent plan that improves equipment reliability and increases overall company profitability.

*Brands: Multiple*

## **Inventory & Truck Stock Management**

Intermediate | Classroom | 2 hrs | \$60

Improve field efficiency by mastering truck stock organization, replenishment habits, and min/max planning. Students learn how inventory control reduces 'windshield time' and ensures the right parts are on hand to protect profitability.

## **Marketing for Trade Contractors**

Intermediate | Classroom | 3 hrs | \$70

Implement effective approaches to branding, digital marketing, and customer acquisition specifically for trade businesses. Students learn practical tactics to generate leads and improve conversion through better messaging and follow-up.



# BUSINESS

## **Performance Management**

Intermediate | Classroom | 8 hrs | \$99 | OCILB

Explore the systems used to track employee productivity and drive results through effective coaching and feedback. Students learn how to set clear performance standards and apply verification methods that ensure peak operational efficiency.

*Brands: Multiple*

## **Selling More by Offering Financing**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Understand how integrating financing into the sales process increases ticket size and improves closing rates. Students learn how to present payment options that overcome price objections and make high-efficiency upgrades more affordable for customers.

*Brands: Multiple*

## **Service Documentation That Prevents Callbacks**

Apprentice | Free Classroom/Zoom Seminar | 1 hr

Perform techniques that shows how proper documentation improves troubleshooting, warranty outcomes, and customer trust. Attendees learn what to record and why it matters.

## **Succession Management for Your Business**

Intermediate | Classroom | 4 hrs | \$80 | OCILB

Addresses the planning, processes, and leadership considerations required to ensure long-term business continuity. The course examines ownership transition strategies, leadership development, and operational knowledge transfer to support a smooth and sustainable succession.

*Brands: Multiple*

## **Technician-to-Leader Development**

Advanced | Classroom | 3 hrs | \$70

Execute best practices to evaluate senior technicians for leadership roles by building skills in communication, coaching, and accountability. Students learn practical tools to lead meetings, manage conflict, and develop others. Emphasis is placed on decision-making, system interaction, and verification of results.

## **The Legal Side of HR**

Intermediate | Classroom | 4 hrs | \$80 | OCILB

Addresses key legal considerations affecting human resources practices within a contracting business. The course reviews employment laws, compliance responsibilities, documentation requirements, and risk management practices that support fair, consistent, and compliant workforce management.

*Brands: Multiple*

## **Recruiting & Maintaining Good Employees**

Intermediate | Classroom | 4 hrs | \$80 | OCILB

Explore proven techniques for building a talent pipeline and a high-performance culture through effective recruiting and retention. Students learn best practices for interviewing and onboarding to reduce turnover and protect company growth.

*Brands: Multiple*

## **Service Agreement Sales Strategies**

Intermediate | Classroom | 2 hrs | \$60

Develop the skills to present maintenance agreements, explain value, and handle common objections. Students learn a repeatable system that improves close rates while building long-term customer trust.

## **State of Ohio Licensing Class**

Apprentice | Classroom/Zoom | 1 hr | \$50/\$35

Build practical capability and get an overview of ohio licensing requirements and what contractors and technicians must maintain for compliance. Students will learn basic renewal expectations, common documentation needs, and where to find the most current state resources.

## **Technician Communications: Talking to Customers**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Focuses on practical communication skills technicians use during service calls to build understanding and trust. Topics include translating technical information into clear explanations, managing customer concerns, and supporting consistent documentation and follow-up.

*Brands: Multiple*

## **Technology in the Field**

Intermediate | Classroom | 2 hrs | \$60

Understand how to explore field technology tools such as mobile documentation, digital forms, and diagnostic apps. Students learn how consistent tech use improves accuracy, speed, and customer communication.

## **Time Management for Field Technicians**

Apprentice | Classroom/Zoom | 1 hr | \$50/\$35

Understand practical strategies for planning the day, reducing wasted trips, and finishing jobs efficiently. Students learn how to prioritize tasks and communicate schedule changes proactively.

## Using Flat Rate Pricing

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Examines the principles and application of flat rate pricing within a contracting business. The course focuses on how flat rate pricing supports consistency, transparency, and accurate job costing, while outlining best practices for implementation, documentation, and internal compliance.

Brands: Multiple

## Why IAQ is Important to Your Business

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Explores the role of indoor air quality (IAQ) in supporting customer health, comfort, and overall system performance. The course examines how IAQ considerations impact service practices, customer education, and long-term business outcomes within residential and commercial environments.

Brands: Multiple

# CONTROLS

## Advanced Boiler Controls Lab

Advanced | Specialty Lab | 5 hrs | \$435 | CEU Pending

Apply proven methods to perform advanced diagnostics to program and troubleshoot advanced boiler controls using live equipment and realistic system scenarios. Technicians will configure outdoor reset, priority zoning, staging, and verify operation through testing.

Brands: Tekmar

## Advanced Control Sequences & Logic

Advanced | Classroom | 4 hrs | \$80 | CEU Pending

Develop the skills to perform advanced diagnostics by focusing on advanced sequences of operation, staging logic, and fault handling in HVAC and hydronic controls. Technicians learn how to interpret and verify control logic during troubleshooting. This course emphasizes reading complex schematics and identifying logic errors to ensure systems are operating properly.

Brands: Tekmar

## Advanced Electrical Troubleshooting Lab

Advanced | Specialty Lab | 5 hrs | \$435 | CEU Pending

Focuses on electrical troubleshooting using meters and systematic test procedures applied to live equipment with intentional faults. The lab emphasizes diagnosing single and multiple faults and confirming repairs through operational verification.

Brands: Multiple

## Warranty & Documentation Best Practices

Apprentice | Classroom/Zoom | 1 hr | \$50/\$35

Students learn how documentation impacts warranty outcomes and how to capture the information manufacturers require. The course covers photo practices, readings, and job notes that prevent claim delays.

## Advanced Control Sequence Verification Lab

Advanced | Specialty Lab | 4 hrs | \$345 | CEU Pending

Build the practical capability to analyze and resolve complex control issues. Technicians learn to validate advanced sequences of operation, staging logic, and fault handling against manufacturer intent. This course covers functional testing methods, documenting sequences, and troubleshooting control conflicts that cause systems to run incorrectly.

Brands: Tekmar

## Advanced Control Strategies

Advanced | Combination Specialty Lab & Classroom  
4 hrs | \$345 | CEU Pending

Addresses advanced control programming strategies, including outdoor reset, staging, and priority handling. The lab emphasizes control integration, documenting sequences of operation, and verifying performance through hands-on lab testing.

Brands: Luxaire

## Basic Controls for Hydronic Systems

Apprentice | Free Classroom/Zoom Seminar | 2 hrs

Introduces basic control concepts, terminology, and sequences of operation used in HVAC systems to support a clearer understanding of system behavior. Instruction includes an overview of contactors, relays, and other common HVAC control components and their functions.

Brands: Tekmar, Honeywell



\*Course offering and details are subject to change at any time.  
View the latest training schedule at [famous-supply.com/contractor-training](https://famous-supply.com/contractor-training)

# CONTROLS

## Building Automation Basics

Intermediate | Classroom | 3 hrs | \$70 | CEU Pending

Provides an overview of building automation system (BAS) concepts, control points, and system integration in commercial environments. The course emphasizes how technicians interact with BAS and communicate effectively with system stakeholders.

*Brands: Johnson Controls*

## Controls System Commissioning

Advanced | Specialty Lab | 4 hrs | \$345 | CEU Pending

Builds technician proficiency in validating control operation, sensor readings, and sequences of operation against expected performance. The lab emphasizes the use of commissioning checklists, documentation practices, and functional testing to confirm proper system operation.

*Brands: Tekmar*

## Generator Overview: Installation & Service

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Develop applied technical knowledge related to generators with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## HVAC Electrical Basics

Apprentice | Combination Specialty Lab & Classroom  
4 hrs | \$345 | CEU Pending

Builds foundational electrical knowledge for HVAC work, including voltage, current, resistance, and safe meter use. The course explains how common electrical components—such as contactors, capacitors, transformers, switches, and relays—function within HVAC systems, along with how to read basic control circuits. Hands-on lab activities reinforce these concepts through practical application.

## HVAC Electrical Troubleshooting: Where to Start

Apprentice | Free Classroom/Zoom Seminar | 2 hrs

Introduces a simple, repeatable approach to HVAC electrical troubleshooting. Instruction focuses on safe meter use, basic wiring diagram interpretation, and avoiding common diagnostic mistakes. Classroom-based examples are used to reinforce proper meter usage and schematic reading, with optional worksheets and downloadable reference materials provided for continued learning.

*Brands: Multiple*

## Hydronic Wiring, Faults, & Troubleshooting

Intermediate | Specialty Lab | 4 hrs | \$345 | CEU Pending

Builds technician capability to diagnose wiring issues and electrical faults in hydronic systems, including boilers, pumps, zone valves, and controls. Emphasis is placed on reading wiring diagrams, safe meter use, and efficient fault isolation techniques.

*Brands: Tekmar, Taco*

## Comfort-Sync Thermostat

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Interpret control logic and electrical operation related to comfort-sync thermostats. Training emphasizes reading schematics, verifying sequences of operation, and using electrical measurements to confirm correct system function.

*Brands: Multiple*

## Electrical Code for HVAC

Intermediate | Classroom | 4 hrs | \$80 | CEU Pending

Reviews national electrical code (NEC) concepts that commonly impact HVAC and plumbing equipment installations. Instruction addresses grounding and bonding fundamentals, disconnect requirements, lockout/tagout procedures, and common compliance pitfalls, with reference to the NEC code book and real-world examples.

## Get Connected with Wi-Fi Controls for Snow Melt & Radiant Heating

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Builds technician capability to analyze and service hydronic systems using Wi-Fi-enabled controls for snow melt and radiant heating applications. Emphasis is placed on modern design principles, control interaction, proper system operation, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## HVAC Electrical Troubleshooting

Intermediate | Specialty Lab | 4 hrs | \$345 | CEU Pending

Builds proficiency in using multimeters and wiring diagrams to troubleshoot sequences of operation using live HVAC electrical faults in a controlled lab setting. The lab emphasizes isolating failures in low- and line-voltage circuits and applying a repeatable diagnostic workflow on furnaces and control lab boards.

*Brands: Multiple*

## Hydronic Controls Fundamentals

Intermediate | Classroom | 3 hrs | \$70 | CEU Pending

Builds a working understanding of hydronic control logic, including outdoor reset, zoning, and staging concepts. Instruction focuses on sequences of operation and how control decisions influence system comfort, efficiency, and overall performance.

*Brands: Tekmar, Honeywell, Caleffi, Taco, Lochinvar, Burnham, Bradford, ECR*

## Intermittent Electrical Fault Diagnostics Lab

Advanced | Specialty Lab | 5 hrs | \$435 | CEU Pending

Builds advanced technician capability to analyze and resolve intermittent electrical issues that occur under load, heat, or vibration. Technicians practice precise meter techniques, circuit isolation, and control logic validation, then confirm repairs through run testing and proper documentation.

*Brands: Multiple*

## Jobsite Electrical Safety for HVAC & Plumbing

Apprentice | Classroom | 2 hrs | \$60 | CEU Pending

Introduces effective electrical safety practices specific to HVAC and plumbing job sites. Instruction addresses hazard recognition, lockout/tagout fundamentals, and safe diagnostic procedures, along with a review of applicable OSHA safety requirements to support preparation for OSHA certification training.

## Reading Electrical Schematics

Apprentice | Classroom | 2 hrs | \$60 | CEU Pending

Builds the ability to interpret wiring diagrams, electrical symbols, and common control circuit layouts. The course emphasizes understanding standard schematic symbols, tracing circuits accurately, and planning safe diagnostic steps before interacting with equipment.

## Smart Home HVAC Integration

Intermediate | Classroom | 2 hrs | \$60 | CEU Pending

Builds practical capability in smart controls and connectivity trends, including how integrated systems impact comfort and service operations. Instruction focuses on best practices for set-up, commissioning, and troubleshooting common connectivity issues.

*Brands: Tekmar*

## Zoning Basics with Arzel Zoning

Intermediate | Combination Specialty Lab & Classroom  
4 hrs | \$345 | CEU Pending

Introduces the fundamentals of zoning and how zoning strategies improve comfort and overall system performance. Hands-on activities cover Arzel Zoning concepts, basic wiring, control operation, and recognition of common field troubleshooting symptoms.

*Brands: Arzel Zoning*

## Low-Voltage HVAC Controls

Apprentice | Combination Specialty Lab & Classroom  
3 hrs | \$255 | CEU Pending

Builds practical capability with low-voltage control circuits, including relays, transformers, and safety devices commonly used in HVAC systems. Instruction addresses typical sequences of operation and introduces a structured approach to basic control diagnostics. Hands-on lab activities are included to reinforce these concepts through applied practice.

*Brands: Tekmar*

## Reading HVAC Wiring Diagrams

Apprentice | Free Classroom/Zoom Seminar | 2 hrs

Builds technician capability to analyze, interpret, and apply basic HVAC wiring diagrams and symbols. Emphasis is placed on developing confidence and readiness prior to performing hands-on electrical troubleshooting.

## Thermostat Installation & Programming

Apprentice | Specialty Lab | 3 hrs | \$255 | CEU Pending

Builds technician capability to wire and configure modern thermostats, verify proper operation, and set up basic features. The lab emphasizes avoiding common wiring mistakes while ensuring correct staging and fan control. Both manual and programmable thermostats are addressed.

*Brands: Breeze33*

## Zoning Controls Installation Lab

Intermediate | Specialty Lab | 4 hrs | \$345 | CEU Pending

Builds practical capability in the hands-on set-up of zoning controls, including control panels, sensors, and actuators, with an emphasis on functional testing. Instruction addresses wiring best practices and troubleshooting steps used to resolve common zoning-related complaints.

*Brands: Tekmar, Taco*





The Build-A-Tech program provides a **structured training pathway** focused on developing consistent technical foundations and supporting progressive skill growth for trade professionals. Courses emphasize **repeatable processes**, real-world application, and professional standards that prepare technicians for effective performance in the field.

### 1. Orientation & Skills Assessment

Apprentice | Classroom | 3 hrs

Technicians complete personality, listening, and HVAC knowledge assessments to establish a baseline for training. Results are used to tailor coaching and set clear expectations for professional growth throughout the program.

*Brands: Multiple*

### 3. Safety, Tools, & Meters

Apprentice | Combination Specialty Lab & Classroom | 4 hrs | CEU Pending

Explore personal safety, PPE usage, ladder safety, and correct use of electrical meters. Students develop safe diagnostic habits and confidence using meters in the field.

*Brands: Multiple*

### 5. Airflow, Duct Systems, & Comfort

Apprentice | Classroom | 4 hrs | CEU Pending

Examines how duct design, material selection, and airflow influence overall system performance and occupant comfort. Instruction addresses the effects of static pressure and moisture on heating and cooling outcomes.

*Brands: Multiple*

### 7. Refrigeration Fundamentals

Apprentice | Classroom | 4 hrs | CEU Pending

Introduces the components of the refrigeration cycle and explains how they function together within cooling systems. Instruction addresses the relationship between pressure and temperature and how these factors influence overall system performance.

### 9. Maintenance Tune-Up Lab

Apprentice | Specialty Lab | 6 hrs | CEU Pending

Addresses best practices for performing a complete maintenance tune-up using structured inspection, cleaning, and verification procedures. Emphasis is placed on accurate documentation and identifying opportunities for system improvement.

*Brands: Multiple*

### 11. Advanced Electrical & A/C Applications

Apprentice | Combination Specialty Lab & Classroom | 5 hrs | CEU Pending

Introduces advanced electrical troubleshooting concepts and higher-level air conditioning and heat pump operation. Instruction emphasizes a structured diagnostic approach, with technicians practicing the identification and resolution of common system failures.

*Brands: Multiple*

### 2. HVACR Fundamentals

Apprentice | Classroom | 4 hrs | CEU Pending

Introduces the fundamentals of HVACR systems, including basic operation, major components, and industry terminology. Instruction provides a working understanding of how heating and cooling systems function together as an integrated system.

### 4. Electrical & Wiring Diagnosis

Apprentice | Combination Specialty Lab & Classroom | 5 hrs | CEU Pending

Builds foundational electrical knowledge for HVAC systems, including control operation and wiring diagrams. The course progresses from wiring basic circuits to tracing circuits, diagnosing common electrical faults, and drawing circuits. Instruction concludes with reading schematics and wiring control panels in accordance with wiring diagrams.

*Brands: Multiple*

### 6. Gas Furnaces & Combustion Safety

Apprentice | Combination Specialty Lab & Classroom | 5 hrs | CEU Pending

Introduces gas furnace operation across basic and high-efficiency systems with an emphasis on combustion safety. Instruction addresses combustion analysis fundamentals and carbon monoxide awareness to support safe operation and service practices.

### 8. Recovery, Evacuation, & Charging Lab

Apprentice | Specialty Lab | 6 hrs | CEU Pending

Focuses on performing refrigerant recovery, evacuation, and charging procedures in accordance with industry best practices. The lab reinforces proper techniques and compliance requirements for most refrigerant systems.

*Brands: Multiple*

### 10. Technician Communication & Flat Rate Basics

Apprentice | Classroom | 3 hrs

Addresses professional communication skills used by technicians to clearly explain findings and recommendations to customers. The course reviews flat rate pricing fundamentals and examines how effective communication supports customer trust, understanding, and consistent service outcomes.

*Brands: Multiple*

**For more information, call our  
J-TEC team at 216-238-4820**

# HVAC

## **A2L Alternate Refrigerant**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Introduces A2L alternate refrigerants with emphasis on service and installation considerations encountered in real-world applications. Instruction addresses safety requirements, best practices, common field challenges, and verification methods used to support compliant and reliable system operation.

*Brands: Multiple*

## **Achieving Healthy Comfort & Home Protection Through Professional Dehumidification**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

The course focuses on practical service and installation considerations, common field challenges, and verification of effective moisture control.

*Brands: Multiple*

## **Advanced Heat Pump Defrost & Low-Ambient Diagnostics Lab**

Advanced | Specialty Lab | 6 hrs | \$525 | CEU Pending

Perform techniques to troubleshoot low-ambient heat pump complaints using defrost logic, sensor readings, airflow verification, and refrigerant performance checks. The lab covers diagnosing improper defrost initiation/termination, icing symptoms, and changeover/aux heat issues while validating repairs with performance testing. Emphasis is placed on decision-making, system interaction, and verification of results.

*Brands: Armstrong Air, Luxaire*

## **Advanced Refrigerant Diagnostics Lab (Beyond Gauges)**

Advanced | Specialty Lab | 6 hrs | \$525 | CEU Pending

Understand how to diagnose complex refrigeration issues using temperature/pressure relationships, superheat/subcooling trends, and system performance data—not just gauge readings. Technicians will differentiate between airflow, charge, restriction, and metering-device problems and confirm root cause before recommending repairs.

*Brands: Armstrong Air, Luxaire*

## **Airflow & Duct Design Essentials**

Intermediate | Combination Specialty Lab & Classroom | 4 hrs | \$345 | CEU Pending

Examines how airflow, static pressure, and duct design impact comfort, efficiency, and system reliability. The course includes hands-on airflow measurement and application of basic duct sizing principles to address common comfort issues.

*Brands: Multiple*

## **Alternate Venting Methods**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop alternate venting method technical knowledge with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **A2L Refrigerant Leak Response & Safety Simulation Lab**

Advanced | Specialty Lab | 5 hrs | \$435 | CEU Pending

Scenario-based lab focused on safe response and service practices for A2L refrigerants. The lab includes leak detection, recovery and evacuation, risk control application, documentation, and verification of safe restart and system performance after repairs.

*Brands: Breeze33, Armstrong Air, Luxaire*

## **Advanced Diagnostic Lab**

Advanced | Specialty Lab | 8 hrs | \$705 | CEU Pending

Evaluate and improve techniques to complete timed diagnostic scenarios using observations, measurements, and logical testing—without relying on provided schematics. The lab reinforces safe work habits, documentation, and verification testing to prove the repair and prevent callbacks. Emphasis is placed on decision-making, system interaction, and verification of results.

*Brands: Multiple*

## **Advanced HVAC Troubleshooting Techniques**

Advanced | Specialty Lab | 6 hrs | \$525 | CEU Pending

Advanced hands-on lab addressing complex HVAC troubleshooting involving airflow, refrigerant, electrical, and control interactions. The lab emphasizes root-cause diagnosis and confirmation of repairs through performance testing.

*Brands: Multiple*

## **Air Conditioning Mechanical Troubleshooting**

Intermediate | Combination Specialty Lab & Classroom | 2 hrs | \$165 | OCILB

Apply industry-accepted HVAC diagnostic and service procedures related to air conditioning mechanical troubleshooting. Instruction focuses on system operation, measurement-based troubleshooting, and confirming performance using manufacturer specifications and accepted best practices.

*Brands: Multiple*

## **Airflow Dynamics & High-Efficiency Air Cleaning**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Examines how airflow dynamics affect the performance of high-efficiency air cleaning systems. The course focuses on practical application and verification in real-world HVAC installations.

*Brands: Multiple*

## **Aprilaire IAQ Product Installation & Service**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Develop technical knowledge related to Aprilaire IAQ product installation and service with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Aprilaire*

## Armstrong Air R454b Equipment Installation & Service Requirements

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Reviews installation and service considerations for Armstrong Air equipment utilizing R454B refrigerant at an intermediate level. The course emphasizes safety requirements, common field challenges, and verification practices that support compliant and reliable operation.

*Brands: Multiple*

## Basic Oil Heating Product Service

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Addresses basic oil heating product service with emphasis on real-world service and installation considerations. Instruction focuses on best practices, common field challenges, and verification methods used to support reliable operation.

*Brands: Multiple*

## Benefits of Dehumidification

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Examines the benefits of dehumidification with emphasis on real-world service and installation considerations. Instruction focuses on best practices, common field challenges, and verification methods used to confirm proper operation and performance.

*Brands: Multiple*

## Boost Revenue & Profit with Healthy Air Systems

All Levels | Classroom | 2 hrs | \$60 | CEU Pending

Links business growth to healthy indoor air through a whole-home, system-based approach. The course highlights IAQ opportunities, customer value drivers, and practical tools for turning solutions into measurable revenue and profit.

*Brands: Aprilaire*

## Breeze33 Ductless Service & Troubleshooting

Advanced | Specialty Lab | 4 hrs | \$345 | CEU Pending

Builds advanced technician capability to diagnose and troubleshoot Breeze33 ductless systems using error codes, wiring schematics, and electrical measurements. Instruction addresses identifying performance issues, correcting cross-port conditions, verifying refrigerant charge, and confirming proper system operation. Emphasis is placed on root-cause analysis, validation testing, and accurate documentation.

*Brands: Breeze33*

## Breeze33 J-Series/Inverter Service & Diagnostics

Advanced | Specialty Lab | 4 hrs | \$345 | CEU Pending

Builds advanced technician capability to evaluate, diagnose, and optimize Breeze33 J-Series inverter systems using sensor data, fault codes, and wiring schematics. Instruction includes verifying refrigerant charge by weight, troubleshooting A2L-related faults, and confirming proper inverter operation. Emphasis is placed on root-cause analysis, validation testing, and accurate documentation.

*Brands: Breeze33*

## Basic Air Conditioning System Start Up

Intermediate | Combination Specialty Lab & Classroom | 3 hrs | \$255 | OCILB

Applies industry-accepted HVAC diagnostic and service procedures related to basic air conditioning system startup. Instruction focuses on system operation, measurement-based troubleshooting, and confirming performance using manufacturer specifications and accepted best practices.

*Brands: Multiple*

## Basic Refrigeration Cycle

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Applies industry-accepted HVAC diagnostic and service procedures related to the basic refrigeration cycle. Instruction focuses on system operation, measurement-based troubleshooting, and confirming performance using manufacturer specifications and accepted best practices.

*Brands: Multiple*

## Benefits of Inferred Heating

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Addresses the benefits and application of infrared heating with emphasis on real-world service and installation considerations. Instruction focuses on best practices, common field challenges, and verification methods used to support reliable operation.

*Brands: Multiple*

## Breeze33 Ductless Installation & Commissioning

Intermediate | Specialty Lab | 4 hrs | \$345 | CEU Pending

Builds technician capability to install and commission Breeze33 ductless systems using correct sizing, piping, and wiring practices. Instruction includes pressure testing, evacuation, verification of factory versus trim charge, and completion of commissioning procedures to confirm proper system performance.

*Brands: Breeze33*

## Breeze33 J-Series/Inverter Installation & Commissioning

Advanced | Specialty Lab | 4 hrs | \$345 | CEU Pending

Builds advanced technician capability to install and commission Breeze33 J-Series inverter systems with a focus on proper application, airflow, and wiring. Instruction includes completing A2L wiring requirements, weighing in refrigerant, performing trim charge procedures, and verifying inverter system performance. Emphasis is placed on precision set-up, performance validation, and system optimization.

*Brands: Breeze33*

## Breeze33 Unitary A/C & Heat Pumps Installation

Intermediate | Specialty Lab | 4 hrs | \$345 | CEU Pending

Builds practical technician capability to install and commission Breeze33 unitary air conditioning and heat pump systems using proper pressure testing, evacuation, and charging procedures. Instruction includes configuring dip switches, verifying airflow, and validating system performance at start-up.

*Brands: Breeze33*



\*Course offering and details are subject to change at any time.  
View the latest training schedule at [famous-supply.com/contractor-training](https://famous-supply.com/contractor-training)

# HVAC

## **Breeze33 Unitary A/C & Heat Pumps Service & Troubleshooting**

Advanced | Specialty Lab | 4 hrs | \$345 | CEU Pending

Builds technician capability to analyze, diagnose, and troubleshoot Breeze33 unitary air conditioning and heat pump systems using pressure-temperature analysis, fault codes, and wiring schematics. Instruction addresses diagnosing refrigerant, airflow, and defrost-related issues, followed by confirmation of proper system operation. Emphasis is placed on root-cause analysis, validation testing, and accurate documentation.

*Brands: Breeze33*

## **Breeze33 Unitary Gas Furnace Service & Troubleshooting**

Advanced | Specialty Lab | 4 hrs | \$345 | CEU Pending

Focuses on diagnosing Breeze33 gas furnace service issues using fault codes, wiring schematics, and appropriate measurement tools. Instruction includes verifying gas pressure, confirming airflow, and troubleshooting pressure switch, venting, and control board conditions. Emphasis is placed on root-cause analysis, validation testing, and accurate documentation.

*Brands: Breeze33*

## **Combustion Testing**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Examines combustion testing practices with emphasis on real-world service and installation scenarios. Instruction focuses on best practices, common field challenges, and verification methods used to confirm safe and proper system operation.

*Brands: Multiple*

## **Commercial HVAC Start-Up Failure Lab (Commissioning Under Pressure)**

Advanced | Specialty Lab | 6 hrs | \$525 | CEU Pending

Focuses on advanced start-up and commissioning of commercial equipment with intentional faults introduced for diagnostic training. The lab emphasizes verifying sequences of operation, safety devices, airflow, electrical set-up, and control functionality, followed by documenting corrective actions and confirming stable operation. Emphasis is placed on precision set-up, performance validation, and overall system optimization.

*Brands: Luxaire, Reznor*

## **Commercial HVAC Troubleshooting Lab**

Advanced | Combination Specialty Lab & Classroom  
4 hrs | \$345 | CEU Pending

Focuses on systematic troubleshooting of commercial HVAC systems with an emphasis on sequences of operation and control interaction. Instruction addresses isolating system failures while maintaining safety and efficiency, with emphasis on sound decision-making, system-level interaction, and verification of diagnostic results.

*Brands: Luxaire, Reznor*

## **Commercial Rooftop Unit Basics**

Intermediate | Combination Specialty Lab & Classroom  
4 hrs | \$345 | CEU Pending

Provides an overview of rooftop unit components, typical sequences of operation, and common failure points in light commercial applications. Instruction connects airflow, gas heating, and control concepts to practical service and maintenance tasks performed in the field.

*Brands: Ice, Reznor*

## **Breeze33 Unitary Gas Furnace Installation**

Intermediate | Specialty Lab | 4 hrs | \$345 | CEU Pending

Builds technician capability to install and commission Breeze33 unitary gas furnaces in accordance with manufacturer best practices. Instruction includes configuring airflow and dip switches, setting and verifying natural gas and LP gas pressures, and completing start-up checks to confirm safe and reliable operation.

*Brands: Breeze33*

## **Building Pressurization & Ventilation**

Intermediate | Classroom | 3 hrs | \$70 | CEU Pending

Examines building pressure principles, ventilation strategies, and indoor air quality considerations. Instruction addresses how HVAC system design and control strategies influence comfort, safety, and code compliance.

*Brands: Multiple*

## **Commercial HVAC Equipment Start-Up**

Advanced | Specialty Lab | 6 hrs | \$525 | CEU Pending

Focuses on performing structured start-up and commissioning procedures on commercial HVAC equipment. The lab emphasizes verification of airflow, electrical set-up, controls, and safety devices, along with documentation best practices and testing steps that reduce callbacks and support reliable operation. Emphasis is placed on precision set-up, performance validation, and overall system optimization.

*Brands: Luxaire, Reznor*

## **Commercial HVAC Troubleshooting**

Advanced | Classroom | 4 hrs | \$80 | CEU Pending

Examines systematic troubleshooting methods for commercial HVAC systems with an emphasis on sequences of operation and control interaction. Instruction focuses on isolating system failures while maintaining safety and efficiency, with emphasis on sound decision-making, system interaction, and verification of diagnostic results.

*Brands: Luxaire, Reznor*

## **Commercial Make-Up Air**

Intermediate | Classroom/Zoom | 3 hrs | \$70/\$35 | OCILB

Explores commercial make-up air systems as they apply to real-world service and installation scenarios. Instruction focuses on best practices, common field challenges, and verification methods used to confirm proper operation and system performance.

*Brands: Multiple*

## **Commercial RTU Maintenance Basics**

Apprentice | Free Classroom/Zoom Seminar | 2 hrs

Provides an overview of rooftop unit maintenance tasks and common service checkpoints used in light commercial applications. The course offers entry-level exposure to commercial equipment and routine service practices.

*Brands: Luxaire, Reznor*

## Commercial Systems Start-Up

Intermediate | Combination Specialty Lab & Classroom | 3 hrs | \$255 | OCILB

Examines commercial system start-up procedures with an emphasis on real-world service and installation scenarios. Instruction focuses on best practices, common field challenges, and verification methods used to confirm proper operation and reliable system performance.

*Brands: Multiple*

## Common HVAC Installation Mistakes

Apprentice | Combination Specialty Lab & Classroom  
4 hrs | \$345 | CEU Pending

Addresses common installation errors and failure conditions that lead to callbacks, performance issues, and comfort complaints. Instruction emphasizes identifying airflow and charging mistakes, along with applying practical checkpoints and quality control steps to prevent repeat issues on every installation.

## Common Reasons You Fail Inspection

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Examines common reasons HVAC and plumbing installations fail inspection, with emphasis on frequently cited code issues encountered in the field. Instruction highlights practical best practices and verification checkpoints technicians can apply to improve first-pass inspection outcomes.

*Brands: Multiple*

## DHW Indirect Sizing & Mixing Valves

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Examines domestic hot water (DHW) indirect water heater sizing and basic mixing valve application commonly encountered in the field. Instruction highlights frequent sizing challenges, installation considerations, and practical verification checkpoints that support proper temperature control and code compliance.

*Brands: Multiple*

## Ductless Split Systems

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Examines ductless split system installation and service practices in real-world field applications. Classroom instruction focuses on best practices, common installation and service challenges, and verification of proper system operation and performance.

*Brands: Multiple*

## ECM Motors

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Examines ECM motor operation, application, and service considerations in real-world installation and troubleshooting applications. Instruction focuses on best practices, common field challenges, and verification of proper motor performance and system operation.

*Brands: Multiple*

## Commercial Venting & Combustion Air

Intermediate | Classroom | 3 hrs | \$70 | CEU Pending

Examines venting methods and combustion air requirements for commercial heating equipment. Instruction addresses applicable code considerations, common failure conditions, and inspection checkpoints used to verify safe and compliant operation.

*Brands: Lochinvar, Ice, Reznor*

## Common HVAC Service Mistakes & How to Avoid Them

Apprentice | Free Classroom/Zoom Seminar | 6 hrs

Addresses common HVAC service and installation mistakes that contribute to callbacks and customer complaints. Instruction focuses on practical field checkpoints related to airflow, refrigerant handling, duct assembly, and connection methods that technicians can apply immediately to improve installation quality and service outcomes.

## Design & Installation of Inferred Heating Systems

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Examines infrared heating system design and installation in real-world service and installation applications. Instruction focuses on best practices, common field challenges, and verification of proper system operation and performance.

*Brands: Multiple*

## Ductless Split Diagnostics (Basic Troubleshooting)

Advanced | Classroom | 2 hrs | \$60 | OCILB

Examines basic diagnostic and troubleshooting practices for ductless split systems with an emphasis on real-world service scenarios. Instruction focuses on common field challenges, systematic troubleshooting approaches, and verification methods used to confirm proper system operation following corrective action.

*Brands: Multiple*

## Ductless System Application Basics

Apprentice | Free Classroom/Zoom Seminar | 2 hrs

Introduces proper ductless system applications and limitations commonly encountered in the field. Instruction highlights basic sizing considerations and practical checkpoints that help prevent misapplication, performance issues, and comfort complaints.

*Brands: Breeze33, Midea*

## Economizer Operation & Troubleshooting

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Examines economizer operation and troubleshooting practices with an emphasis on real-world service and installation scenarios. Instruction focuses on best practices, common field challenges, and verification methods used to confirm proper economizer function, control response, and system performance.

*Brands: Multiple*



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# HVAC

## Energy Codes & Compliance

Intermediate | Classroom | 2 hrs | \$60

Implement effective approaches of energy code concepts that impact HVAC and plumbing design, installation, and documentation. Technicians learn where codes affect equipment selection, controls, and commissioning requirements.

## Estimating for HVAC & Plumbing Projects

Intermediate | Classroom | 3 hrs | \$70

Analyze and address estimating fundamentals including labor/material takeoffs, overhead, and margin protection. The course includes practical methods to reduce scope gaps and improve bid consistency.

## Gas Furnace Safety & Best Practices

Apprentice | Free Classroom/Zoom Seminar | 4 hrs

Addresses gas furnace safety fundamentals, including combustion air requirements, venting awareness, and start-up checks. Instruction reinforces safe field habits and verification practices used to support reliable and compliant operation.

*Brands: Breeze33, Midea, Luxaire, Allied, Armstrong Air, Concord*

## Geothermal Basics

Apprentice | Classroom | 2 hrs | \$60 | OCILB

Examines geothermal system fundamentals in real-world installation and service applications. Instruction focuses on best practices, common field challenges, and verification of proper system operation and performance.

*Brands: Multiple*

## Heat Pump Basics for Cold Climates

Intermediate | Free Classroom/Zoom Seminar | 4 hrs

Examines how modern heat pumps perform in cold-climate conditions and the factors that affect capacity and reliability. Instruction highlights set-up and configuration considerations that support improved performance in low-temperature applications.

*Brands: Breeze33, Midea, Luxaire, Allied, Armstrong Air, Concord*

## High Pressure Air Conditioning Systems

Intermediate | Classroom | 5 hrs | \$90 | OCILB

Examines diagnostic and service procedures for high-pressure air conditioning systems using industry-accepted practices. Instruction focuses on system operation, measurement-based troubleshooting, and performance verification aligned with manufacturer specifications.

*Brands: Multiple*

## EPA 608 Refrigerant Certification (Type I, II, III, & Universal)

Apprentice | Classroom | 8 hrs | \$99 | EPA 608 Certification

Prepares participants for the EPA section 608 certification required for handling regulated refrigerants. Instruction addresses refrigerant safety, environmental regulations, recovery and leak detection requirements, and best practices applicable to type I, type II, type III, and universal certification. The course includes structured exam preparation, sample questions, and proctored testing in accordance with EPA requirements.

*Brands: Esco*

## Furnace Set-Up Under Fan Energy Rating Standard

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Examines furnace set-up requirements under the fan energy rating (FER) standard with an emphasis on real-world installation and service scenarios. Instruction focuses on best practices, common field challenges, and verification methods used to confirm compliance, proper airflow configuration, and overall system performance.

*Brands: Multiple*

## Generator Overview: Installation & Service

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Develop applied technical knowledge related to generators with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Heat Pump Applications & Best Practices

Intermediate | Combination Specialty Lab & Classroom  
4 hrs | \$345 | CEU Pending

Examines heat pump operating modes, balance point concepts, and defrost strategies required for dependable system performance. Instruction includes wiring and configuring key components, along with set-up steps that improve capacity, comfort, and overall customer satisfaction.

*Brands: Armstrong Air, Luxaire*

## Heat Pump Electrical Troubleshooting

Advanced | Specialty Lab | 2 hrs | \$165 | OCILB

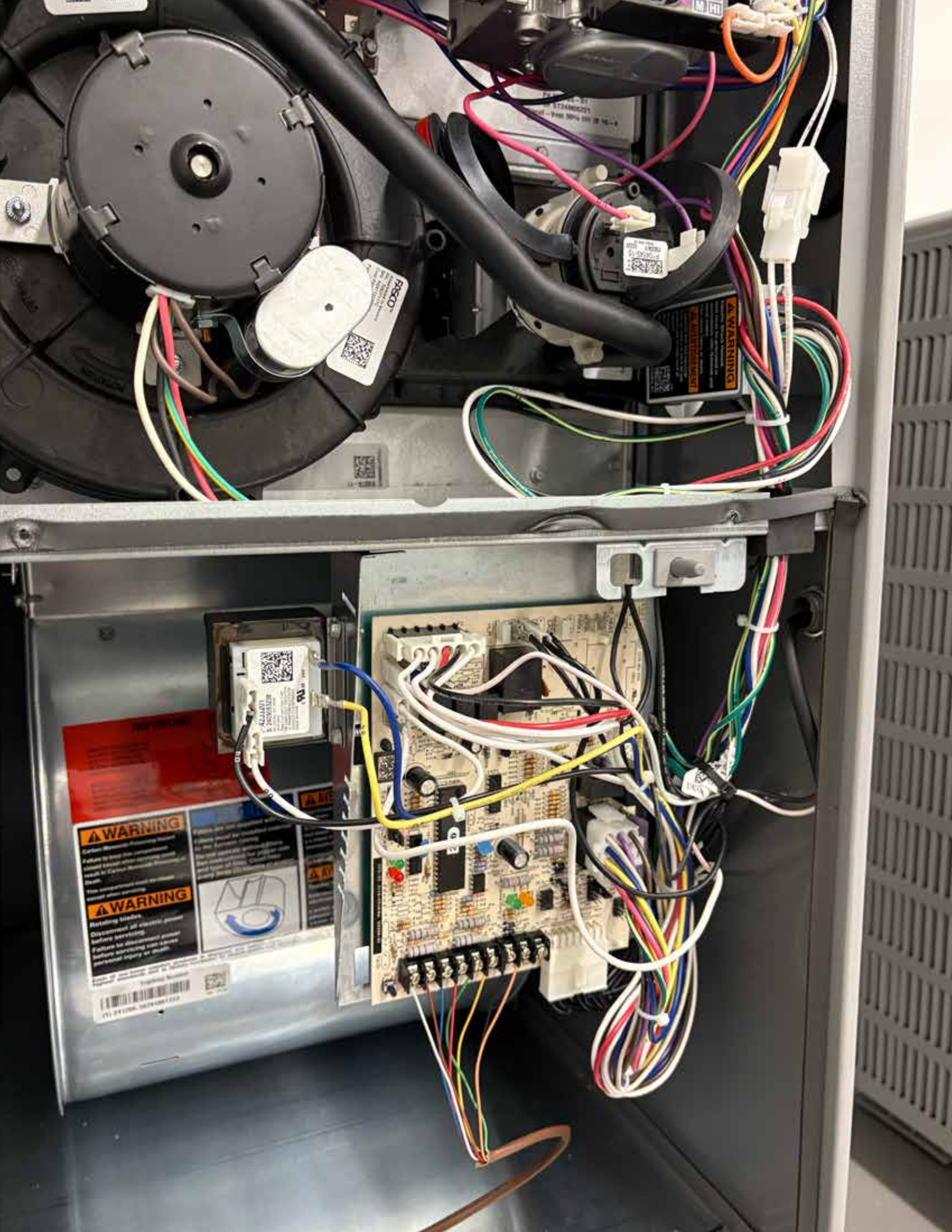
Addresses industry-accepted diagnostic and service procedures for heat pump electrical troubleshooting. Instruction focuses on system operation, measurement-based diagnostic techniques, and confirming proper performance using manufacturer specifications and recognized best practices.

*Brands: Multiple*

## HVAC Code & Safety Essentials

Apprentice | Classroom | 2 hrs | \$60 | CEU Pending

Reviews core mechanical code concepts and jobsite safety expectations that impact HVAC installation and service. Instruction addresses common compliance pitfalls, inspection considerations, and risk-reduction practices used to support safe and code-compliant field work.



# HVAC

## **HVAC Systems Fundamentals**

Apprentice | Combination Specialty Lab & Classroom  
2 hrs | \$165 | CEU Pending

Introduces the basic principles of heating and cooling, including major system components, terminology, and common residential applications. Instruction provides a clear understanding of how HVAC systems operate as an integrated whole and what constitutes normal system performance.

*Brands: Multiple*

## **HWR Recirculation 101**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Examines the installation, evaluation, and troubleshooting of domestic hot water return (HWR) recirculation systems using code-compliant methods. Instruction emphasizes safe installation practices, recognizing common field failures, and testing procedures that support consistent operation and inspection readiness.

*Brands: Multiple*

## **Indoor Air Quality 201**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Explores advanced indoor air quality (IAQ) concepts and applications beyond foundational principles. Instruction focuses on real-world service and installation scenarios, best practices, common field challenges, and verification methods used to confirm effective IAQ system performance.

*Brands: Multiple*

## **Ins & Outs of Humidity**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Examines the fundamentals of humidity control and its impact on comfort, system performance, and indoor conditions. Instruction focuses on real-world service and installation scenarios, best practices, common field challenges, and verification methods used to confirm proper humidity management.

*Brands: Multiple*

## **Intro to Psychrometrics**

Apprentice | Classroom | 2 hrs | \$60 | OCILB

Introduces fundamental psychrometric concepts and their application in real-world service and installation scenarios. Instruction focuses on best practices, common field challenges, and verification methods used to evaluate air conditions, moisture control, and system performance.

*Brands: Multiple*

## **Leveraging IAQ to Grow In-Home Sales**

All Levels | Classroom | 2 hrs | \$60 | CEU Pending

Examines the importance of indoor air quality and how it fits into the in-home sales process. The course focuses on effective IAQ sales strategies, overcoming objections, communicating value, and aligning quoting and installer communication to support successful job execution.

*Brands: Aprilaire*

## **HVAC Tools & Best Practices**

Apprentice | Specialty Lab | 3 hrs | \$255 | CEU Pending

Provides hands-on practice with the tools technicians use daily for measurement, installation, and diagnostics. Instruction emphasizes safe tool handling, proper set-up, and techniques that improve accuracy and efficiency, with exposure ranging from basic hand tools to extension cords, vacuum pumps, and other commonly used equipment.

*Brands: Multiple*

## **Increasing Speed & Accuracy of Recovery & Evacuation Process**

Intermediate | Classroom/Zoom | 2 hrs | \$60/\$35 | OCILB

Introduces practical methods for improving the efficiency and accuracy of refrigerant recovery and evacuation procedures. Instruction highlights common field challenges and basic verification steps used to support proper system preparation.

*Brands: Multiple*

## **Infrared Training**

Intermediate | Classroom | 4 hrs | \$80 | OCILB

Covers infrared heating system operation, application, and installation considerations in real-world service environments. Instruction focuses on best practices, common field challenges, and verification of safe, proper system performance.

*Brands: Multiple*

## **Intro to Heat Pumps**

Apprentice | Classroom | 3 hrs | \$70 | OCILB

Introduces heat pump system operation and fundamental service considerations using industry-accepted diagnostic practices. Instruction focuses on understanding basic operating modes, applying measurement-based troubleshooting techniques, and confirming system performance using manufacturer specifications and recognized best practices.

*Brands: Multiple*

## **Ion Air Purification Technology**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Introduces ion air purification technology and its application in HVAC systems commonly encountered in the field. Instruction highlights basic installation considerations, common service challenges, and practical verification checkpoints used to confirm proper operation and performance.

*Brands: Multiple*

## **Luxaire R454b Equipment Installation & Service Requirements**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Examines installation and service requirements for Luxaire equipment utilizing R454B refrigerant in real-world field applications. Instruction focuses on manufacturer best practices, common installation and service challenges, and verification methods used to confirm safe operation, compliance, and proper system performance.

*Brands: Luxaire*

## MagicPak Troubleshooting

Advanced | Specialty Lab | 6 hrs | \$525 | CEU Pending

Hands-on lab focused on advanced troubleshooting of MagicPak® combination heating and air conditioning systems. Instruction addresses flame-sensing, gas valve, and control board diagnostics on the heating side, along with refrigeration circuit analysis and TXV-related faults on the cooling side.

Brands: MagicPak, Resideo

## Midea Ductless Installation & Commissioning

Intermediate | Specialty Lab | 4 hrs | \$345 | CEU Pending

Provides instruction on installing and commissioning Midea ductless systems using correct sizing, piping, and wiring practices. Instruction includes pressure testing, evacuation, verification of factory versus trim charge, and completion of commissioning procedures to confirm proper system performance.

Brands: Midea

## Midea Inverter Installation & Commissioning

Advanced | Specialty Lab | 4 hrs | \$345 | CEU Pending

Focuses on installing and commissioning Midea inverter systems with emphasis on proper application, airflow configuration, and wiring practices. Instruction includes completing A2L wiring requirements, weighing in refrigerant, performing trim charging, and verifying inverter system performance, with emphasis on precision set-up, performance validation, and system optimization.

Brands: Midea

## Mini-Split System Installation

Intermediate | Specialty Lab | 5 hrs | \$435 | CEU Pending

Provides hands-on installation training for ductless and mini-split systems, including equipment mounting, piping, wiring, evacuation, and start-up procedures. Instruction emphasizes best practices that help prevent leaks, nuisance errors, and performance issues commonly encountered during ductless system installations.

Brands: Midea, Breeze33

## Modulating Gas Furnaces

Intermediate | Combination Specialty Lab & Classroom | 2 hrs | \$165 | OCILB

Examines the installation, evaluation, and troubleshooting of modulating gas furnaces using code-compliant methods. Instruction emphasizes safe installation practices, identification of common field failures, and testing procedures that support consistent operation and inspection readiness.

Brands: Multiple

## NCI: Combustion Performance & CO Safety

Advanced | Classroom | 8 hrs | 3rd Party Pricing | CEU Pending

Perform combustion performance testing and carbon monoxide safety checks using accepted test procedures and safety protocols. Training emphasizes interpreting readings, identifying unsafe conditions, and verifying corrective actions to improve safety and fuel efficiency.

Brands: Multiple

## Make-Up Air Systems Fundamentals

Intermediate | Classroom | 3 hrs | \$70 | CEU Pending

Examines why make-up air systems are required in commercial environments and how they operate to support proper building pressure. Instruction addresses critical safety requirements, control strategies, and common application scenarios used to maintain code compliance and reliable system operation.

Brands: Ice, Reznor

## Midea Ductless Service & Troubleshooting

Advanced | Specialty Lab | 4 hrs | \$345 | CEU Pending

Addresses troubleshooting practices for Midea ductless systems using error codes, schematics, and electrical measurement techniques. Instruction focuses on diagnosing performance issues, correcting cross-port conditions, verifying refrigerant charge, and confirming proper system operation, with emphasis on root-cause analysis, validation testing, and documentation.

Brands: Midea

## Midea Inverter Service & Diagnostics

Advanced | Specialty Lab | 4 hrs | \$345 | CEU Pending

Advanced hands-on lab focused on installing and commissioning Midea inverter systems with emphasis on proper application, airflow configuration, and wiring practices. The lab includes completing A2L wiring requirements, weighing in refrigerant, performing trim charging, and verifying inverter system performance, with emphasis on precision set-up, performance validation, and system optimization.

Brands: Midea

## Mixed-System Interaction Lab

Advanced | Specialty Lab | 7 hrs | \$615 | CEU Pending

Learn to troubleshoot system interaction problems where the operation of one system impacts another. In the hands-on lab, technicians practice diagnosing cross-system symptoms, coordinating corrections, and validating stable operation across all systems. Emphasis is placed on decision-making, system interaction, and measured verification of results.

Brands: Multiple

## NCI: Air Testing, Diagnostics & Commercial System Performance

Advanced | Combination Specialty Lab & Classroom | 8.5 hrs | 3rd Party Pricing | CEU Pending

Applies measurement-based diagnostic techniques to evaluate airflow, static pressure, and overall system performance against established targets. Instruction emphasizes identifying root causes of comfort and efficiency complaints, prioritizing corrective actions, and confirming improvements through repeatable testing and documented results.

Brands: Multiple

## NCI: Commercial Air Balancing

Advanced | Classroom | 8.5 hrs | 3rd Party Pricing | CEU Pending

Execute commercial air balancing procedures using industry-standard instruments and repeatable field processes. Training covers preparing equipment for testing, setting airflow, documenting results, and validating performance across larger and more complex systems.

Brands: Multiple



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# HVAC

## **NCI: Residential Air Balancing**

Advanced | Classroom | 8.5 hrs | 3rd Party Pricing | CEU Pending

Perform residential air balancing using proven airflow testing procedures and appropriate instruments. Learn how to set fan airflow, adjust distribution, document results, and verify comfort improvements with repeatable measurements.

*Brands: Multiple*

## **Negative Regulation Technology**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develops applied technical knowledge related to negative regulation technology with emphasis on real-world service and installation scenarios. Instruction focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **Operating Characteristics of Scroll Compressors**

Intermediate | Combination Specialty Lab & Classroom | 3 hrs | \$255 | OCILB

Develops applied technical knowledge related to the operating characteristics of scroll compressors with emphasis on real-world service and installation scenarios. Instruction focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **Overview of High Pressure A/C Systems**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Instruction focuses on system operation, measurement-based troubleshooting, and confirming performance using manufacturer specifications and accepted best practices.

*Brands: Multiple*

## **Proper Installation Techniques For Mini-Split A/C Systems**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Develops knowledge related to proper installation techniques for mini-split air conditioning systems with emphasis on real-world service and installation scenarios. Instruction focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **Refrigerant Handling & EPA Review**

Apprentice | Classroom | 3 hrs | \$70 | CEU Pending

Perform techniques to review safe refrigerant recovery, recycling, and handling practices aligned with EPA requirements. Students will reinforce best practices that protect equipment, reduce emissions, and support exam preparation.

## **NCI: Residential System Performance**

Advanced | Classroom | 8.5 hrs | 3rd Party Pricing | CEU Pending

Apply measurement-based diagnostics to evaluate airflow, static pressure, and system performance against targets. Learn how to identify root causes of comfort and efficiency complaints, prioritize corrective actions, and confirm improvements with repeatable test results.

*Brands: Multiple*

## **Newly Approved Venting Methods**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Reviews newly approved venting methods with emphasis on real-world service and installation scenarios. Instruction focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **Operation & Service of TXVs**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Apply industry-accepted HVAC diagnostic and service procedures related to thermostatic expansion valves (TXVs). Instruction focuses on system operation, measurement-based troubleshooting, and confirming performance using manufacturer specifications and accepted best practices.

*Brands: Multiple*

## **Performing a Gas Furnace Start-Up**

Intermediate | Combination Specialty Lab & Classroom | 3 hrs | \$255 | OCILB

Covers installation, evaluation, and troubleshooting activities associated with performing a gas furnace startup using code-compliant methods. The course emphasizes safe installation practices, common field failures, and testing procedures that support consistent operation and inspection readiness.

*Brands: Multiple*

## **Refrigerant Changes & What Techs Need to Know**

Apprentice | Free Classroom/Zoom Seminar | 1 hr

Covers current refrigerant regulations, transitions, and best practices for handling and servicing systems. Attendees leave with a clarity on what changes impact their day-to-day work.

## **Refrigeration Cycle Deep Dive**

Apprentice | Combination Specialty Lab & Classroom  
3 hrs | \$255 | CEU Pending

Understand the refrigeration cycle with a focus on pressure/temperature relationships, heat transfer, and refrigerant behavior. Students will learn how to translate gauge readings into system diagnosis and identify what conditions drive common cooling problems.

*Brands: Multiple*

## Residential & Commercial Combustion

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Develop applied technical knowledge related to residential & commercial combustion with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Resideo IAQ Applications

Intermediate | Classroom/Zoom | 2 hrs | \$60/\$35 | OCILB

Examines Resideo IAQ applications in real-world service and installation environments. Instruction focuses on best practices, common field challenges, and verification methods.

*Brands: Resideo*

## SEER, EER & System Efficiency

Intermediate | Classroom | 2 hrs | \$60 | CEU Pending

Understand what efficiency ratings mean and why installation quality often determines real-world performance. Technicians will connect airflow, duct losses, and charge accuracy to operating costs and comfort outcomes.

*Brands: Armstrong Air, Luxaire*

## Smoke & CO Detection Devices

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Reviews smoke and CO detection devices as they apply to real-world service and installation scenarios. Instruction focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## The Electric Side of Heat Pumps

Intermediate | Combination Specialty Lab & Classroom | 2 hrs | \$165 | OCILB

Apply industry-accepted HVAC diagnostic and service procedures related to the electric side of heat pumps. Instruction focuses on system operation, measurement-based troubleshooting, and confirming performance using manufacturer specifications and accepted best practices.

*Brands: Multiple*

## Troubleshooting Airside Problems

Advanced | Specialty Lab | 2 hrs | \$165 | OCILB

Hands-on lab focused on diagnosing and resolving common airside problems. Emphasis is placed on airflow measurement, identifying field issues, and verifying corrective actions.

*Brands: Multiple*

## Residential Split System Installation

Apprentice | Specialty Lab | 6 hrs | \$525 | CEU Pending

Learn how to install a residential split system from set to start-up, following manufacturer specifications and best practices. Lab activities include line-set practices, evacuation, charging methods, and final commissioning checks to reduce callbacks.

*Brands: Armstrong Air, Luxaire*

## RTU Troubleshooting Lab

Advanced | Specialty Lab | 5 hrs | \$435 | CEU Pending

Analyze and implement best practices to diagnose common rooftop unit (RTU) problems using live equipment, test instruments, and manufacturer resources. Scenarios include gas heat faults, airflow issues, economizer/control problems, and electrical failures. Emphasis is placed on root-cause analysis, validation testing, and documentation.

*Brands: Ice, Reznor, Luxaire*

## Sizing & Installing High Pressure A/C Systems

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Examines sizing and installation considerations for high-pressure air conditioning systems in real-world service and installation environments. Instruction focuses on best practices, common field challenges, and verification methods.

*Brands: Multiple*

## System Commissioning & Start-Up

Intermediate | Combination Specialty Lab & Classroom  
4 hrs | \$345 | CEU Pending

Learn a repeatable commissioning process that verifies airflow, refrigerant charge, electrical set-up, and control operation. Technicians practice documenting readings and making adjustments to ensure the system meets design expectations.

*Brands: Armstrong Air, Luxaire*

## The Next Generation of Humidifiers

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied humidifier technical knowledge with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Understanding Forced-Air Zoning Requirements

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Develop knowledge related to understanding zoning requirements with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*



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# HVAC

## Understanding High-Pressure Unico A/C Systems

Advanced | Combination Specialty Lab & Classroom  
3 hrs | \$255 | CEU Pending

Learn what makes high-pressure, small-duct systems unique and how design and installation choices affect performance. The course covers airflow and static pressure concepts, common application mistakes, and service checks that prevent comfort complaints and callbacks. Emphasis is placed on precision set-up, performance validation, and system optimization.

*Brands: Unico*

## Understanding Self-Contained Through the Wall Heating & A/C Units

Intermediate | Classroom | 4 hrs | \$80 | OCILB

Develop applied technical knowledge related to understanding self-contained through the wall heating & a/c units. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Understanding Self-Contained Through the Wall Heating & A/C Units: Service & Troubleshooting Classroom

Intermediate | Classroom | 1 hr | \$50

Classroom session focused on service and troubleshooting of self-contained through-the-wall heating and air conditioning units. Instruction reviews common failure modes, diagnostic approaches, and verification steps used to restore proper operation.

## Understanding Self-Contained Through the Wall Heating & A/C Units: Application, Installation, Commissioning Classroom

Apprentice | Classroom | 1 hr | \$50 | OCILB

Develop applied technical knowledge related to understanding self-contained through the wall heating & A/C Units with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Unit Heater Sizing: Service & Layout

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Covers installation, evaluation, and troubleshooting considerations related to unit heater sizing, service, and layout using code-compliant methods. The course emphasizes safe installation practices, common field failures, and testing procedures that support consistent operation and inspection readiness.

*Brands: Multiple*

## Ventilation Strategies: Exhaust Supply & Balance

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge related to ventilation strategies exhaust supply and balance. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Understanding Self-Contained Through the Wall Heating & A/C Units

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Examines self-contained through-the-wall heating and air conditioning units with emphasis on real-world service and installation applications. The course focuses on best practices, common field challenges, and verification of proper operation.

*Brands: Multiple*

## Understanding Self-Contained Through the Wall Heating & A/C Units: Application, Installation, Commissioning Lab

Apprentice | Lab | 1 hr | \$75

Hands-on lab focused on the application, installation, and commissioning of self-contained through-the-wall heating and air conditioning units. The lab emphasizes proper setup, common installation considerations, and verification steps used to confirm safe, reliable operation.

## Understanding Self-Contained Through the Wall Heating & A/C Units: Service & Troubleshooting Lab

Intermediate | Lab | 1 hr | \$75

Hands-on lab focused on servicing and troubleshooting self-contained through-the-wall heating and air conditioning units. The lab emphasizes diagnosing common faults and verifying proper system operation.

## Understanding UV Technology In A/C Systems

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge related to understanding UV technology in A/C systems with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Ventilation Code Growth in the US & Current Ohio Codes

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge related to ventilation code growth in the US & current Ohio codes with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Venting Gas Appliances

Intermediate | Combination Specialty Lab & Classroom | 2 hrs | \$165 | OCILB

Covers installation, evaluation, and troubleshooting of gas appliance venting using code-compliant methods. The lab emphasizes safe installation practices, common field failures, and testing procedures that support consistent operation and inspection readiness.

*Brands: Multiple*

## **Whole-Building IAQ Diagnostic Lab (Pressure, Filtration, Ventilation)**

Advanced | Specialty Lab | 5 hrs | \$435 | CEU Pending

Learn how to diagnose IAQ problems using building pressure checks, filtration performance verification, ventilation evaluation, and moisture source identification. The hands-on lab emphasizes turning findings into a clear action plan that improves comfort, health perception, and system performance. Emphasis is placed on root-cause analysis, validation testing, and documentation.

*Brands: Multiple*

## **Zone Temperature Controls & Thermostat Set-Ups**

Intermediate | Classroom/Zoom | 2 hrs | \$60/\$35

Explore technical best practices for wiring and setting up complex zone control systems. Technicians learn to navigate common installation issues and configuration errors that often impact system performance.

*Brands: Breeze33, Honeywell, Allied, White Roger, etc.*



# HYDRONICS

## Advanced Diagnostic Lab

Advanced | Specialty Lab | 8 hrs | \$705 | CEU Pending

Evaluate and improve techniques to complete timed diagnostic scenarios using observations, measurements, and logical testing—without relying on provided schematics. The lab reinforces safe work habits, documentation, and verification testing to prove the repair and prevent callbacks. Emphasis is placed on decision-making, system interaction, and verification of results.

*Brands: Multiple*

## Advanced Hydronics Skill Builder Lab

Advanced | Specialty Lab | 8 hrs | \$705 | CEU Pending

Perform techniques to build, commission, and troubleshoot a complete hydronic system. This lab reinforces piping, pumps, air control, and controls integration using real-world scenarios. Emphasis is placed on precision set-up, performance validation, and system optimization.

*Brands: Multiple*

## Basic Hydronic Systems

Intermediate | Classroom | 3 hrs | \$70 | OCILB

Analyze and service hydronic systems associated with basic hydronic systems using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## Boiler Start-Up & Combustion Testing

Advanced | Specialty Lab | 5 hrs | \$435 | CEU Pending

Evaluate and improve proper boiler start-up procedures with a strong focus on combustion analysis and safety. The course covers combustion testing, interpreting analyzer readings, making allowable adjustments, and verifying safe, efficient system operation during commissioning. Emphasis is placed on precision set-up, performance validation, and system optimization.

*Brands: Lochinvar, Burnham, Dunkirk*

## Boiler Teardown & Cleaning Part 1

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Analyze and service hydronic systems associated with boiler teardown and cleaning using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## Boiler Types & Applications

Apprentice | Classroom | 1 hr | \$50 | CEU Pending

Analyze and compare cast iron, condensing, and electric boiler technologies and where each fits best. Students will learn selection considerations such as load, venting, efficiency goals, and maintenance expectations.

*Brands: Burnham, Dunkirk, Lochinvar, Electro Boiler*

## Advanced Hydronic System Failure Analysis Lab

Advanced | Specialty Lab | 6 hrs | \$525 | CEU Pending

Execute best practices to apply proven methods to diagnose real-world hydronic failures such as ghost flow, velocity noise, temperature imbalance, and unstable control interactions. Technicians use a repeatable diagnostic process to validate root causes, implement corrective actions, and verify improvements through flow/temperature testing.

*Brands: Taco, Grundfos, Caleffi, Tekmar*

## Air Conditioning in Hydronic Applications

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Apply industry-accepted HVAC diagnostic and service procedures related to air conditioning in hydronic applications. Instruction focuses on system operation, measurement-based troubleshooting, and confirming performance using manufacturer specifications and accepted best practices.

*Brands: Multiple*

## Boiler Maintenance Best Practices: Clean & Check

Intermediate | Specialty Lab | 2 hrs | \$165 | CEU Pending

Hands-on seasonal service procedures including inspection points, cleaning, and operational verification. Technicians will learn documentation and testing steps that reduce breakdowns and support warranty requirements.

*Brands: Burnham, Lochinvar, ECR, Bradford*

## Boiler Start-Up Checklist Essentials

Apprentice | Free Classroom/Zoom Seminar | 2 hrs

Implement effective approaches to practical boiler start-up that technicians can use to ensure safe, reliable operation. Attendees learn common oversights that cause nuisance failures.

*Brands: Burnham, Lochinvar, ECR, Bradford White*

## Boiler Tear Down & Cleaning Part 2

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Analyze and service hydronic systems associated with boiler tear down and cleaning using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## Combustion Analysis & Venting

Intermediate | Combination Specialty Lab & Classroom  
2 hrs | \$165 | CEU Pending

Develop the fundamental skills of combustion testing and proper venting strategies to ensure safe system operation. Technicians will perform analysis using live equipment, interpret readings, and identify venting and air supply problems that cause failures or unsafe conditions.

*Brands: Burnham, Lochinvar, ECR, Bradford*

## Commercial Boiler Systems

Intermediate | Combination Specialty Lab & Classroom  
2 hrs | \$165 | CEU Pending

Explore commercial boiler system layouts, redundancy strategies, and common components found in larger applications. Technicians will review piping concepts and control strategies that support stable operation and serviceability.

Brands: Burnham, Lochinvar, ECR, Bradford

## Commercial Pump Sizing

Advanced | Classroom | 1 hr | \$50 | CEU Pending

Strengthen proficiency in advanced pump selection for commercial applications using head loss and system curve concepts. Technicians will practice sizing scenarios and learn how to avoid over-pumping, noise, and inefficiency.

Brands: Grundfos, Taco

## Condensing Boiler Diagnostics Lab

Advanced | Specialty Lab | 3 hrs | \$255 | CEU Pending

This lab focuses on diagnosing why condensing boilers fail to achieve true condensing performance in the field. Technicians will evaluate return-water temperatures, flow configuration, control settings, and piping layouts, then apply corrective steps that improve efficiency and reliability. Emphasis is placed on decision-making, system interaction, and verification of results.

Brands: Lochinvar, Burnham, Tekmar

## Controlling Your Hydronic Systems

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Analyze and service hydronic systems using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

Brands: Multiple

## Electric Boiler Applications

Intermediate | Classroom | 2 hrs | \$60 | CEU Pending

Evaluate and review where electric boilers make sense and how they integrate into hydronic systems and controls. Technicians will learn sizing concepts, wiring considerations, and best practices for safe operation.

Brands: Electro Boiler

## Expansion Tank Sizing, Testing, & Common Issues

Intermediate | Combination Specialty Lab & Classroom  
2 hrs | \$165 | CEU Pending

Technicians learn how to properly size expansion tanks, verify correct placement, and test expansion performance. The hands-on lab reviews common symptoms of undersized, failed, or improperly installed tanks along with corrective actions.

Brands: Caleffi, Spirovent, Amtrol

## Commercial Boiler Troubleshooting

Advanced | Specialty Lab | 6 hrs | \$525 | CEU Pending

Build advanced capability to diagnose real-world commercial boiler issues, including ignition faults, flow problems, and control errors. Using live equipment, technicians will focus on structured diagnostics and verification testing. Emphasis is placed on root-cause analysis, validation testing, and documentation.

Brands: Lochinvar, Burnham

## Condensing Boiler Application Consideration

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Analyze and service hydronic systems associated with condensing boiler application using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

Brands: Multiple

## Controlling Water Quality In Hydronic Systems

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Analyze and service hydronic systems associated with controlling water quality in hydronic systems using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

Brands: Multiple

## Electrcial Boilers & Heat Pump Basics

Apprentice | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Apply industry-accepted HVAC diagnostic and service procedures related to electrcial boilers and heat pump basics. Instruction focuses on system operation, measurement-based troubleshooting, and confirming performance using manufacturer specifications and accepted best practices.

Brands: Multiple

## Energy Efficiency in Hydronics

Intermediate | Classroom | 2 hrs | \$60 | CEU Pending

Learn modern efficiency strategies including outdoor reset, proper sizing, condensing optimization, and system design improvements. Technicians will connect design and installation choices to operating costs and comfort outcomes.

Brands: Lochinvar, Caleffi

## Expansion Tanks & Air Elimination

Intermediate | Combination Specialty Lab & Classroom  
2 hrs | \$165 | CEU Pending

Learn how to learn how expansion control and air elimination stabilize hydronic systems and prevent callbacks. Technicians will install and evaluate air separators and expansion tanks while troubleshooting symptoms related to air and pressure issues.

Brands: Caleffi, Spirovent, Amtrol



\*Course offering and details are subject to change at any time.  
View the latest training schedule at [famous-supply.com/contractor-training](https://famous-supply.com/contractor-training)

# HYDRONICS

## **Expansion Tanks & Point of No Pressure**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge related to expansion tanks and point of no pressure with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **Flame Failures & Combustion Issues**

Advanced | Classroom | 3 hrs | \$70 | CEU Pending

This course focuses on diagnosing flame failures and combustion-related lockouts in modern boilers. Technicians will identify root causes such as ignition components, gas supply issues, airflow problems, and control-related faults.

*Brands: Lochinvar, Burnham, ECR, Bradford*

## **Heat Loss for Hydronics**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Analyze and service hydronic systems using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## **Hydronic Air Problems: Symptoms & Solutions**

Intermediate | Free Classroom/Zoom Seminar | 1 hr

Understand how air enters hydronic systems, the symptoms it causes, and practical methods for reducing callbacks related to air issues.

*Brands: Caleffi, Spirovent*

## **Hydronic Code & Safety**

Apprentice | Classroom | 2 hrs | \$60 | CEU Pending

Review key codes and safety practices related to boilers, hydronic piping, venting, and service work. Students will learn common compliance issues and safe troubleshooting habits.

## **Hydronic Mixing Valve Fundamentals**

Apprentice | Free Classroom/Zoom Seminar | 2 hrs

Introduces the purpose and operation of hydronic mixing valves. Technicians learn the core concepts of temperature control and scald protection.

*Brands: Caleffi and Honeywell*

## **Figuring Flow & Head: The Finer Points of Circulators**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge related to figuring flow and head of circulators with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **Heat Emitters**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge related to heat emitters with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **How to Select Boiler Air Separators & Water Side Accessories**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Analyze and service hydronic systems, how to select boiler air separators and water side accessories using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## **Hydronic Circulators & Expansion Tanks**

Intermediate | Classroom | 3 hrs | \$70 | OCILB

Analyzes hydronic circulators and expansion tanks using modern design and diagnostic practices. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## **Hydronic Innovations Technology & Functional Accessories**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Analyzes hydronic systems using hydronic innovations technology and functional accessories with modern design and diagnostic practices. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## **Hydronic Mixing, Valving, & Pumping**

Intermediate | Combination Specialty Lab & Classroom  
2 hrs | \$165 | CEU Pending

Technicians use effective approaches to diagnose and manage how mixing valves, injection pumping, and hydraulic separation control water temperature and flow. Theory is reinforced through hands-on demonstrations of proper piping and control strategies.

*Brands: Caleffi, Taco, Grundfos*

## Hydronic Pump Fundamentals

Apprentice | Classroom | 2 hrs | \$60 | OCILB

Analyzes hydronic pump fundamentals using modern design and diagnostic practices. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## Hydronic Retrofits

Advanced | Classroom | 3 hrs | \$70 | CEU Pending

Evaluate and improve methods for upgrading older hydronic systems to improve reliability and efficiency. Technicians learn retrofit strategies for piping, pumps, controls, and boiler replacements while minimizing disruptions. Emphasis is placed on decision-making, system interaction, and verification of results.

*Brands: Burnham, Dunkirk, ECR, Lochinvar*

## Hydronic System Commissioning

Advanced | Combination Specialty Lab & Classroom  
2 hrs | \$165 | CEU Pending

Master a structured commissioning process for hydronic systems including flow verification, control set-up, and documentation. Technicians learn how precision set-up and system optimization prevent callbacks and performance issues.

*Brands: Multiple*

## Hydronics Fundamentals

Apprentice | Classroom | 3 hrs | \$70 | CEU Pending

Learn the fundamentals of hydronic heating including flow, heat transfer, and common system configurations. Students will understand how boilers, pumps, and distribution work together to deliver comfort and efficiency.

*Brands: Multiple*

## Mixed-System Interaction Lab

Advanced | Specialty Lab | 7 hrs | \$615 | CEU Pending

Learn to troubleshoot system interaction problems where the operation of one system impacts another. In the hands-on lab, technicians practice diagnosing cross-system symptoms, coordinating corrections, and validating stable operation across all systems. Emphasis is placed on decision-making, system interaction, and measured verification of results.

*Brands: Multiple*

## Overview of Residential Steam Heating Systems

Intermediate | Classroom | 3 hrs | \$70 | OCILB

An overview of residential steam heating systems using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## Hydronic Pump Issues: Causes & Fixes

Intermediate | Free Classroom/Zoom Seminar | 1 hr

Apply proven methods to common causes of pump issues including air, overpumping, and poor piping design. Attendees learn corrective actions to reduce callbacks.

*Brands: Taco, Grundfos*

## Hydronic System Air Elimination Best Practices

Intermediate | Classroom | 2 hrs | \$60 | CEU Pending

Focuses on diagnosing air-related problems in hydronic systems and how to prevent them. Technicians learn proper air elimination methods, component placement, and diagnostic techniques.

*Brands: Caleffi, Spirovent*

## Hydronic Troubleshooting

Advanced | Specialty Lab | 6 hrs | \$525 | CEU Pending

Apply proven methods to diagnose complex hydronic problems such as air binding, poor flow, temperature imbalance, and control interaction issues. Technicians will use a structured approach to confirm root causes and validate repairs.

*Brands: Multiple*

## Lochinvar: Commercial Boiler Service & Troubleshooting

Intermediate | Combination Specialty Lab & Classroom  
8 hrs | \$705 | CEU Pending

Commission, service, and troubleshoot Lochinvar hydronic equipment using manufacturer procedures and measurement-based verification. Coverage includes start-up checkpoints, control set-up, common fault conditions, and performance confirmation to reduce callbacks.

*Brands: Lochinvar*

## Mod-Com Boilers, Buffer Tanks & Zoning

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Analyze mod-com boilers, buffer tanks, and zoning using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## Pipe Sizing Air Control & Pumping Away

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Learn how proper pipe sizing, air control, and "pumping away" principles improve hydronic system performance. Students will understand circulator placement, expansion tank location, pressure relationships, and air elimination strategies to reduce noise, callbacks, and uneven heating.

*Brands: Multiple*



\*Course offering and details are subject to change at any time.  
View the latest training schedule at [famous-supply.com/contractor-training](https://famous-supply.com/contractor-training)

# HYDRONICS

## Piping Basics

Apprentice | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge of piping basics with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Primary/Secondary Piping

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge related to primary/secondary piping with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Principles of Hydronic Heating

Intermediate | Classroom | 3 hrs | \$70 | OCILB

Learn principles of hydronic heating using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## Pump Flow Controls & Troubleshooting

Intermediate | Specialty Lab | 2 hrs | \$165 | CEU Pending

This lab-based course teaches pump control strategies including constant speed, variable speed, and differential pressure control. Technicians troubleshoot flow-related complaints such as noise, poor heat transfer, and short cycling.

*Brands: Taco, Grundfos*

## Pumps & Circulators 101

Apprentice | Classroom | 2 hrs | \$60 | CEU Pending

Develop the skills to understand circulator types, pump curves, and the basics of pump selection for hydronic systems. Students will learn how flow, head, and system design choices affect comfort and noise.

*Brands: Taco, Grundfos*

## Radiant Floor Heating Design Lab

Intermediate | Combination Specialty Lab & Classroom  
4 hrs | \$345 | CEU Pending

Perform techniques to learn radiant design fundamentals including layout, tubing spacing, heat loss considerations, and material selection. Technicians will translate design goals into practical installation plans and best practices.

*Brands: REHAU*

## Piping Multiple Boilers Zones & Temperatures

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Analyze hydronic systems associated with piping multiple boilers zones & temperatures using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## Primary/Secondary Piping Design

Intermediate | Combination Specialty Lab & Classroom  
1 hr | \$75 | CEU Pending

Apply proven methods to learn how primary/secondary piping stabilizes flow and improves system performance. Technicians will assemble piping configurations in the lab and identify when hydraulic separation is required.

*Brands: Caleffi, Taco*

## Proper System Operation & Controlling the Delta-T

Advanced | Combination Specialty Lab & Classroom  
1 hr | \$75 | CEU Pending

Evaluate how Delta-T impacts system efficiency, comfort, and equipment longevity. Technicians learn how flow rate, emitter output, and controls influence delta-t and how to correct improper operation. Emphasis is placed on decision-making, system interaction, and verification of results.

*Brands: Taco, Grundfos, Caleffi*

## Pump Installation & Diagnostics

Intermediate | Specialty Lab | 2 hrs | \$165 | CEU Pending

Use hands-on installations to understand the wiring and troubleshooting of circulators and pumps under operating conditions. Technicians will verify flow, diagnose noise and air issues, and correct common installation mistakes.

*Brands: Taco, Grundfos*

## Radiant Floor Heating

Intermediate | Classroom | 4 hrs | \$80 | OCILB

Analyze hydronic systems with radiant floor heating using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## Radiant Snow-Melting System Design

Advanced | Classroom | 3 hrs | \$70 | CEU Pending

Build advanced capability to design snow-melting systems including load calculations, tubing layout, controls, and fluid selection. The course covers common design mistakes that lead to excessive operating costs or poor melting performance. Emphasis is placed on decision-making, system interaction, and verification of results.

*Brands: REHAU*

## **Radiant System Installation Lab**

Intermediate | Specialty Lab | 6 hrs | \$525 | CEU Pending

Experience hands-on radiant installation with tubing handling, manifold set-up, fastening methods, and pressure testing. Technicians will learn jobsite sequencing and quality checks that prevent leaks and uneven heating.

*Brands: REHAU*

## **REHAU Skill Builders**

Intermediate | Combination Specialty Lab & Classroom  
2 hrs | \$165 | CEU Pending

Install and verify radiant/hydronic components using REHAU-recommended practices, including tubing handling, manifold set-up, and pressure testing. Training emphasizes jobsite sequencing, quality checkpoints, and troubleshooting steps that prevent leaks and uneven system performance.

*Brands: REHAU*

## **Selecting & Understanding Components of a Hydronic System**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Learn how to select & understand components of a hydronic system using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## **Snow-Melting Systems & Design**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Develop applied technical knowledge related to snow melting systems & design with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **Steam Heating Principles**

Intermediate | Classroom | 3 hrs | \$70 | OCILB

Learn the steam heating principles of hydronic systems using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## **Steam Operation: Vents, Traps, & Condensate**

Intermediate | Classroom | 3 hrs | \$70 | CEU Pending

Learn how to build practical capability to cover the operation and function of steam vents, traps, and condensate return components. Technicians learn how failed or misapplied components affect balance, efficiency, and comfort.

*Brands: Burnham, Dunkirk*

## **Radiant Tubing Installation, Manifolds, & Insulation**

Intermediate | Specialty Lab | 6 hrs | \$525 | CEU Pending

This lab focuses on best practices for radiant tubing installation, manifold set-up, and insulation placement. Technicians learn jobsite techniques that prevent leaks, uneven heat output, and long-term system issues.

*Brands: REHAU*

## **Residential Boiler Installation**

Intermediate | Specialty Lab | 6 hrs | \$525 | CEU Pending

Perform techniques to install and pipe a residential boiler system following manufacturer requirements and best practices. Technicians will focus on near-boiler piping, safety components, start-up steps, and common installation pitfalls.

*Brands: Multiple*

## **Selecting Basic Boilers**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Learn how to select basic boilers using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## **Steam Heating Fundamentals**

Apprentice | Classroom | 3 hrs | \$70 | CEU Pending

Introduces the principles of steam heating systems including steam behavior, system components, and distribution methods. Students learn how steam differs from hot water systems and why proper piping and venting are critical.

*Brands: Burnham, Dunkirk*

## **Steam Near-Boiler Piping & Boiler Assembly**

Advanced | Specialty Lab | 6 hrs | \$525 | CEU Pending

This course focuses on correct near-boiler piping practices for steam systems including headers, equalizers, and riser configuration. Technicians assemble piping layouts that ensure dry steam and long boiler life. Emphasis is placed on decision-making, system interaction, and verification of results.

*Brands: Burnham, Dunkirk*

## **Steam System Problems: Troubleshooting & Cleaning**

Intermediate | Classroom | 3 hrs | \$70 | OCILB

Analyze hydronic system problems - trouble shooting & cleaning using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*



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# HYDRONICS

## **Steam System Troubleshooting**

Advanced | Specialty Lab | 4 hrs | \$345 | CEU Pending

Technicians troubleshoot real-world steam system problems, including uneven heating, water hammer, pressure issues, and condensate return failures using a structured diagnostic approach. Emphasis is placed on decision-making, system interaction, and verification of results through hands-on testing.

*Brands: Burnham, Dunkirk*

## **Theory of Basic Hydronics**

Intermediate | Classroom/Zoom | 3 hrs | \$70/\$35 | OCILB

Learn the theory of basic hydronics using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## **Troubleshooting Hydronic Heating Systems**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Trouble shooting hydronic heating systems using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## **Understanding Circulators: Past, Present, & Future Part 1**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge related to the understanding of circulators past, present, & future with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **Understanding Hydronic Zoning Requirements**

Intermediate | Classroom | 5 hrs | \$99 | OCILB

Develop applied technical knowledge related to understanding zoning requirements with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **Understanding Steam Heating Fundamentals: Part 1**

Apprentice | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop an understanding of steam heating fundamentals by using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## **System Balancing & Optimization**

Advanced | Combination Specialty Lab & Classroom  
2 hrs | \$165 | CEU Pending

Balance hydronic systems for comfort, efficiency, and stability through hands-on application. Technicians will adjust flows, evaluate temperature drops, and optimize control settings to reduce complaints and energy waste.

*Brands: Caleffi, Taco, Grundfos*

## **Troubleshooting Boiler Problems**

Advanced | Specialty Lab | 1 hr | \$75 | OCILB

Learn how to troubleshoot boiler problems using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## **Types of Boilers & Piping**

Intermediate | Classroom | 3 hrs | \$70 | OCILB

Learn about types of boilers & piping systems by using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## **Understanding Circulators: Past, Present, & Future Part 2**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge related to the understanding of circulators past, present, & future with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **Understanding Modern Boiler Efficiency**

Apprentice | Free Classroom/Zoom Seminar | 1 hr

Explore how modern boilers achieve efficiency and what impacts real-world performance. Attendees learn basic concepts around sizing, controls, and system design that affect comfort and reliability.

*Brands: Burnham, Lochinvar, ECR, Bradford White*

## **Understanding Steam Heating Fundamentals: Part 2**

Apprentice | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop an understanding of steam heating fundamentals by using modern design and diagnostic principles. Emphasis is placed on proper system operation, control interaction, and verification techniques that support efficiency, reliability, and occupant comfort.

*Brands: Multiple*

## Water Chemistry & Treatment for Hydronic Systems

Advanced | Classroom | 3 hrs | \$70 | CEU Pending

Technicians learn how water quality affects boilers, pumps, and heat exchangers over time. Topics include testing, treatment strategies, and how poor chemistry leads to corrosion, scaling, and premature failure. Emphasis is placed on decision-making, system interaction, and verification of results.

*Brands: Lochinvar, Burnham*

## Zoning Basics

Apprentice | Classroom | 2 hrs | \$60 | OCILB

Develop applied technical knowledge of zoning basics with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Caleffi, Taco, Honeywell*

## Zoning Strategies

Intermediate | Classroom | 2 hrs | \$60 | CEU Pending

Apply proven methods to compare zoning methods and learn when to use zone valves vs. circulators. Technicians will understand comfort impacts, wiring/control considerations, and common troubleshooting symptoms.

*Brands: Taco, Caleffi, Honeywell, Caleffi*

## Zone Pumps vs Zone Valves: The Great Debate

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge of zone pumps and zone valves with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Zoning Heat Transfer Devices & Comfort

Intermediate | Classroom/Zoom | 3 hrs | \$70/\$35 | OCILB

Develop applied technical knowledge of zoning heat transfer devices & comfort with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*



# PLUMBING

## 2025 Plumbing Code: Updates & Compliance

Intermediate | Classroom | 4 hrs | \$80 | CEU Pending

This 4-hour code course reviews key updates in the 2025 plumbing code and how they affect installation and inspection outcomes. Technicians will learn common compliance pitfalls, documentation expectations, and practical jobsite applications of updated requirements.

## Advanced Plumbing Diagnostics Lab

Advanced | Specialty Lab | 5 hrs | \$435 | CEU Pending

Develop the advanced capability to troubleshoot complex plumbing scenarios involving pressure, flow, temperature, and drainage interactions. The lab emphasizes efficient isolation, accurate root-cause identification, and repair verification.

*Brands: Multiple*

## Backflow Devices

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge of backflow devices with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Backflow Testing & Certification Lab

Intermediate | Specialty Lab | 4 hrs | \$345 | CEU Pending

This lab provides hands-on practice performing backflow testing using approved test equipment and proper documentation procedures. Emphasis is placed on correct set-up, accurate readings, and completing compliance-ready test reports that meet regulatory and certification requirements.

*Brands: Watts*

*\*Backflow billed through 3rd party.*

## Basics of Water Filtration

Apprentice | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Introduces basic water filtration concepts, common filter types, and typical residential applications. The course reviews selection fundamentals, placement considerations, maintenance expectations, and best practices that support consistent performance and customer satisfaction.

*Brands: Multiple*

## Commercial Electric Water Heaters: Level 1

Apprentice | Classroom | 4 hrs | \$80

Introduces Bradford White commercial electric water heaters through a brand overview, model identification, and product selection guidance. Instruction familiarizes participants with available commercial product lines, capacity and application considerations, and key features that support proper system selection for light commercial and commercial installations.

*Brands: Bradford White*

## 2026 Mandated Changes to Water Heaters

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Understand the 2026 code and regulatory changes affecting residential and commercial water heaters. This class reviews updated efficiency standards, venting requirements, safety devices, and compliance considerations so technicians can properly specify, inspect, and explain compliant installations.

*Brands: Bradford White, Lochinvar, etc.*

## Air Admittance Valves

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge of air admittance valves with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Backflow Prevention Theory

Intermediate | Classroom | 2 hrs | \$60 | CEU Pending

This course explains cross-connection risks, backflow conditions, and proper device selection by application. Contractors will gain a clear understanding of compliance requirements and learn how to communicate risks, testing needs, and corrective solutions effectively to customers and authorities.

*Brands: Watts*

## Backflow Testing & Recertification Lab

Intermediate | Specialty Lab | 4 hrs | \$345 | CEU Pending

This lab provides hands-on practice performing backflow testing using approved test equipment and proper documentation procedures. Emphasis is placed on correct set-up, accurate readings, and completing compliance-ready test reports that meet regulatory and certification requirements.

*Brands: Watts*

*\*Backflow billed through 3rd party.*

## Bradford White: Commercial Water Heating

### Service & Troubleshooting

Intermediate | Combination Specialty Lab & Classroom  
8 hrs | \$705 | CEU Pending

Troubleshoot common water heater performance issues using structured diagnostics and manufacturer guidance. Coverage includes ignition/combustion basics, venting and safety devices, troubleshooting fault conditions, and confirming stable operation after repair.

*Brands: Bradford White*

## Commercial Electric Water Heaters: Level 2

Intermediate | Classroom | 4 hrs | \$80

Builds on foundational product knowledge to address installation requirements and procedures for Bradford White commercial electric water heaters. Instruction emphasizes electrical and piping considerations, required tools and test equipment, manufacturer-recommended installation practices, and verification steps that support reliable operation and inspection readiness in commercial applications.

*Brands: Bradford White*

## Commercial Electric Water Heaters: Level 3

Advanced | Classroom | 8 hrs | \$99

Advances beyond installation to focus on troubleshooting and diagnostics of Bradford White commercial electric water heaters. Instruction addresses common performance issues, electrical and control diagnostics, component testing, and proper use of test equipment to verify root cause and restore reliable operation in commercial applications.

Brands: Bradford White

## Commercial Gas-Fired Water Heaters: Level 1

Apprentice | Classroom | 4 hrs | \$80

Introduces Bradford White commercial gas-fired water heaters through a brand overview, model identification, and product selection guidance. Instruction familiarizes participants with commercial product lines, capacity and application considerations, venting categories, and combustion requirements to support proper selection for light commercial and commercial installations.

Brands: Bradford White

## Commercial Gas-Fired Water Heaters: Level 2.1

Intermediate | Classroom | 2 hrs | \$60

Expands on Level 2 installation practices with a focused application on Bradford White commercial atmospheric gas-fired water heaters. Instruction addresses installation requirements and procedures specific to atmospheric systems, including venting configuration, combustion air provisions, gas supply verification, and required tools and test equipment, with emphasis on manufacturer specifications and inspection readiness.

Brands: Bradford White

## Commercial Gas-Fired Water Heaters: Level 3.1

Advanced | Classroom | 4 hrs | \$80

Advances beyond installation to focus on troubleshooting and diagnostics of Bradford White commercial atmospheric gas-fired water heaters. Instruction addresses common performance complaints, combustion air and draft issues, venting failures, gas supply verification, control and safety circuit diagnostics, and proper use of test equipment to confirm root cause and restore safe, reliable operation.

Brands: Bradford White

## Commercial Gas-Fired Water Heaters: Levels 1 and 2 Combined

Intermediate | Classroom | 8 hrs | \$99

Provides a combined Level 1 and Level 2 overview of Bradford White commercial gas-fired water heaters. The course covers product selection and essential installation requirements that support safe, code-compliant operation.

Brands: Bradford White

## Commercial Water Heating Systems

Intermediate | Classroom | 4 hrs | \$80 | CEU Pending

Explore the design, operation, and performance requirements of commercial water heating systems. This course emphasizes proper system selection, sizing, storage, and recovery rates. Contractors will leave better equipped to design reliable systems, improve efficiency, and reduce long-term service and maintenance issues.

Brands: Lochinvar, Bradford White

## Commercial Electric Water Heaters: Levels 1 and 2 Combined

Intermediate | Classroom | 8 hrs | \$99

The course covers brand orientation, model identification, product selection, and key installation requirements, including electrical and piping considerations, tools, test equipment, and practices that support reliable installation and inspection readiness.

Brands: Bradford White

## Commercial Gas-Fired Water Heaters: Level 2

Intermediate | Classroom | 4 hrs | \$80

Addresses installation requirements for Bradford White commercial gas-fired water heaters. Emphasis is placed on venting, combustion air, gas and electrical requirements, required tools, and practices that support safe, code-compliant installation.

Brands: Bradford White

## Commercial Gas-Fired Water Heaters: Level 2.2

Intermediate | Classroom | 2 hrs | \$60

Covers installation requirements for Bradford White commercial high-efficiency gas-fired water heaters. Emphasis is placed on venting, condensate management, combustion air, gas supply verification, and code-compliant installation practices.

Brands: Bradford White

## Commercial Gas-Fired Water Heaters: Level 3.2

Advanced | Classroom | 4 hrs | \$80

Addresses troubleshooting and diagnostics of Bradford White commercial high-efficiency gas-fired water heaters. Emphasis is placed on combustion, venting, condensate management, controls, and verification of proper operation.

Brands: Bradford White

## Commercial Water Heater Failure & Recovery Lab

Advanced | Specialty Lab | 6 hrs | \$525 | CEU Pending

Technicians diagnose commercial water heater failures such as scaling, flow starvation, ignition/control lockouts, and recirculation-related temperature complaints. The lab emphasizes safe recovery, verification testing, and restoring stable operation with clear documentation. Emphasis is placed on root-cause analysis, validation testing, and documentation.

Brands: Lochinvar, Bradford White

## CSST Gas Piping

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Reviews code requirements, installation intent, and best practices for CSST gas piping systems. The course focuses on sizing considerations, bonding and grounding requirements, manufacturer limitations, and common code issues that impact inspection approval.

Brands: Multiple



\*Course offering and details are subject to change at any time.  
View the latest training schedule at [famous-supply.com/contractor-training](https://famous-supply.com/contractor-training)

# PLUMBING

## **Direct Hot Water Recirculating Systems**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Examines the design, application, and code considerations for direct hot water recirculating systems. Instruction focuses on system types, control strategies, common installation pitfalls, and best practices that support proper operation and inspection readiness.

*Brands: Multiple*

## **Drain Sizing**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge of drain sizing with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **Energy Codes & Compliance**

Intermediate | Classroom | 2 hrs | \$60

Implement effective approaches of energy code concepts that impact HVAC and plumbing design, installation, and documentation. Technicians learn where codes affect equipment selection, controls, and commissioning requirements.

## **Fixtures, Faucets, & Fittings**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Develop applied technical knowledge of fixtures, faucets & fittings with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## **Gas Furnace Ignition Systems: Past, Present, & Future Lecture**

Intermediate | Classroom | 2 hrs | \$60 | OCILB

A lecture on gas furnace ignition systems: past, present, & future. The course emphasizes safe installation practices, common field failures, and testing procedures that support consistent operation and inspection readiness.

*Brands: Multiple*

## **Getting Ready for Plumbing Inspections**

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

How to get ready for plumbing inspections using code-compliant methods. The course emphasizes safe installation practices, common field failures, and testing procedures that support consistent operation and inspection readiness.

*Brands: Multiple*

## **Drain Cleaning & Maintenance Methods**

Apprentice | Classroom | 2 hrs | \$60 | CEU Pending

This course introduces modern drain cleaning techniques and preventive maintenance strategies used in residential and light commercial applications. Contractors will learn how to identify the causes of blockages, select appropriate cleaning methods, and recommend maintenance plans that reduce emergency service calls and repeat issues.

*Brands: Milwaukee, Ridgid*

## **Drainage System Design Fundamentals**

Apprentice | Classroom | 2 hrs | \$60 | CEU Pending

This course introduces gravity drainage principles, venting concepts, and fixture unit basics that drive compliant system layouts. Contractors will learn how improper slope, sizing, and venting lead to chronic drainage problems and service calls, and how to avoid those issues during design and installation.

*Brands: Zurn*

## **Estimating for HVAC & Plumbing Projects**

Intermediate | Classroom | 3 hrs | \$70

Analyze and address estimating fundamentals including labor/material takeoffs, overhead, and margin protection. The course includes practical methods to reduce scope gaps and improve bid consistency.

## **Gas Furnace Ignition Systems: Past, Present, & Future**

Intermediate | Classroom | 4 hrs | \$80 | OCILB

Examines the evolution of gas furnace ignition systems, from standing pilot designs to modern electronic and emerging technologies. The course focuses on operating principles, safety considerations, common failure patterns, and diagnostic concepts that help technicians understand system behavior and make informed service decisions.

*Brands: Multiple*

## **Gas Piping Design & Safety**

Intermediate | Combination Specialty Lab & Classroom  
4 hrs | \$345 | CEU Pending

This course builds practical knowledge of gas piping system design. Contractors will learn gas sizing, material selection, routing requirements, and pressure testing, and will practice calculations and assembly of common field-installed piping configurations.

*Brands: Watts*

## **Grease & Oil Interceptors**

Intermediate | Classroom | 2 hrs | \$60 | CEU Pending

Learn proper sizing, installation requirements, and maintenance practices for grease and oil interceptors in commercial applications. This course focuses on common failure modes, compliance considerations, and best practices that help keep systems operating reliably and avoid costly backups or violations.

*Brands: Zurn*

## Hot Water Recirculation Balancing & Troubleshooting Lab

Advanced | Specialty Lab | 5 hrs | \$435 | CEU Pending

Technicians perform advanced diagnostics to balance and troubleshoot domestic hot water recirculation systems, reducing wait times without wasting energy. This course uses live equipment to cover temperature swing complaints, improper pump selection, mis-piping, and balancing issues. Emphasis is placed on root-cause analysis, validation testing, and documentation.

Brands: Grundfos, Taco

## How Water Recirculation Systems Work

Intermediate | Classroom | 2 hrs | \$60 | CEU Pending

This course explains how domestic hot water recirculation systems are designed and operated to reduce wait times and improve comfort. Contractors will learn common system layouts, balancing concepts, and troubleshooting methods for temperature issues while understanding how to avoid unnecessary energy waste.

Brands: Grundfos, Taco

## Installation & Service of Commercial Water Heaters Lab

Intermediate | Combination Specialty Lab & Classroom  
6 hrs | \$525 | CEU Pending

Develop the skills to select, install, and service commercial water heating systems, including venting, gas requirements, and safety devices. The course includes start-up checks, common failure modes, and a structured troubleshooting approach for high-demand applications.

Brands: Lochinvar, Bradford White

## Mixing Valves & Scald Protection

Intermediate | Combination Specialty Lab & Classroom  
3 hrs | \$255 | CEU Pending

Learn the purpose, operation, and code requirements of mixing valves used for temperature control and scald protection. Install, set, and test valves to achieve stable outlet temperatures, improve system safety, and ensure compliance with applicable plumbing codes.

Brands: Watts, Caleffi

## Plumbing Problems

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Learn about common plumbing problems. The course emphasizes safe installation practices, common field failures, and testing procedures that support consistent operation and inspection readiness.

Brands: Multiple

## Plumbing Tables & Charts

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Focuses on understanding and applying plumbing code tables and charts used for sizing, materials, clearances, and system design. The course emphasizes how to interpret tables correctly and apply them to support compliant installations and inspection approval.

Brands: Multiple

## How to Prevent Losing a Plumbing License

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

How to keep from losing a plumbing license. The course emphasizes safe installation practices, common field failures, and testing procedures that support consistent operation and inspection readiness.

Brands: Multiple

## Installation & Service of Commercial Water Heaters

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Learn about the installation & service of commercial water heaters using code-compliant methods. The course emphasizes safe installation practices, common field failures, and testing procedures that support consistent operation and inspection readiness.

Brands: Multiple

## Island Fixture Venting

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge of island fixture venting with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

Brands: Multiple

## Plumbing Installation Lab

Advanced | Specialty Lab | 8 hrs | \$705 | CEU Pending

Technicians complete a full plumbing system install from rough-in through trim-out with inspection-ready practices. The lab reinforces code compliance, workmanship standards, and functional testing. Emphasis is placed on precision set-up, performance validation, and system optimization.

Brands: Multiple

## Plumbing Safety & OSHA Compliance

Apprentice | Classroom | 2 hrs | \$60 | CEU Pending

Course covers jobsite safety expectations, PPE, hazard awareness, and confined-space basics relevant to plumbing work. Students learn practical habits that reduce incidents and improve compliance.

## Plumbing Tools & Best Practices

Apprentice | Specialty Lab | 3 hrs | \$255 | CEU Pending

This hands-on lab focuses on the safe and efficient use of common plumbing tools and jobsite techniques. Contractors will improve productivity, workmanship, and installation quality while learning practices that help prevent leaks, damage, and avoidable callbacks.

Brands: Milwaukee



\*Course offering and details are subject to change at any time.  
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# PLUMBING

## Plumbing Venting Methods

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Install, evaluate, and troubleshoot plumbing venting methods. The course emphasizes safe installation practices, common field failures, and testing procedures that support consistent operation and inspection readiness.

*Brands: Multiple*

## Residential Electric Water Heater: Level 1 and 2 Combined

Intermediate | Classroom | 8 hrs | \$99

Provides a combined Level 1 and Level 2 overview of Bradford White residential electric water heaters. The course covers product selection and essential installation requirements that support safe, reliable operation.

*Brands: Bradford White, Stream 33*

## Residential Electric Water Heater: Level 3

Advanced | Classroom | 8 hrs | \$99

Advances beyond installation to focus on troubleshooting and diagnostics of Bradford White residential electric water heaters. Instruction addresses common performance complaints, electrical and component-level diagnostics, proper use of test equipment, and verification techniques used to confirm root cause and restore reliable operation.

*Brands: Bradford White, Stream 33*

## Residential Gas Water Heaters: Level 2

Intermediate | Classroom | 3 hrs | \$70

Builds on foundational product knowledge to address installation requirements and procedures for Bradford White residential gas water heaters. Instruction emphasizes venting and combustion air considerations, required tools and test equipment, manufacturer-recommended installation practices, and verification steps that support safe operation and inspection readiness.

*Brands: Bradford White*

## Residential Gas Water Heaters: Levels 1 and 2 Combined

Intermediate | Classroom | 8 hrs | \$99

This combined Level 1 and Level 2 overview of Bradford White residential gas water heaters covers model identification, product selection, and installation requirements. Technicians will review venting and combustion air considerations, required tools and equipment, and manufacturer-recommended practices to ensure safe installation, verification, and inspection readiness.

*Brands: Bradford White*

## Sanitary Drainage

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Develop applied technical knowledge of sanitary drainage with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Residential Electric Water Heater: Level 1

Apprentice | Classroom | 4 hrs | \$80

Introduces Bradford White residential electric water heaters through a brand overview, model identification, and product selection guidance. The session familiarizes participants with available product lines, key features, and application considerations to support informed selection and proper application in residential installations.

*Brands: Bradford White, Stream 33*

## Residential Electric Water Heater: Level 2

Intermediate | Classroom | 3 hrs | \$70

Builds on foundational product knowledge to address installation requirements and procedures for Bradford White residential electric water heaters. Instruction focuses on required tools, test equipment, and manufacturer-recommended practices to support proper installation, verification, and reliable operation in residential applications.

*Brands: Bradford White, Stream 33*

## Residential Gas Water Heaters: Level 1

Apprentice | Classroom | 4 hrs | \$80

Introduces Bradford White residential gas water heaters through a brand overview, model identification, and product selection guidance. The session familiarizes participants with available product lines, key features, venting categories, and application considerations to support informed selection and proper residential application.

*Brands: Bradford White*

## Residential Gas Water Heaters: Level 3

Advanced | Classroom | 8 hrs | \$99

Advances beyond installation to focus on troubleshooting and diagnostics of Bradford White residential gas water heaters. Instruction addresses common performance complaints, combustion and venting issues, gas supply verification, electrical and control diagnostics, and proper use of test equipment to confirm root cause and restore safe, reliable operation.

*Brands: Bradford White*

## Residential Storm Water Management 101

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Learn about residential storm water management 101 using code-compliant methods. The course emphasizes safe installation practices, common field failures, and testing procedures that support consistent operation and inspection readiness.

*Brands: Multiple*

## Sizing Guidelines for New & Replacement Sewage Pumps

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge of sizing guidelines for new & replacement sewage pumps with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Storm Drainage: An Overview

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied technical knowledge of storm drainage an overview with an emphasis on real-world service and installation scenarios. Training focuses on best practices, common field challenges, and verification methods used by experienced technicians.

*Brands: Multiple*

## Tankless Gas-Fired Water Heater Residential/Commercial: Level 1

Apprentice | Classroom | 4 hrs | \$80

Provides an overview of tankless water heaters, covering brand orientation, model identification, and product selection. Instruction also addresses installation requirements and procedures, venting and combustion air considerations, required tools and test equipment, and manufacturer-recommended practices that support safe installation, verification, and inspection readiness.

*Brands: Bradford White, Stream33, Noritz*

## Tankless Gas-Fired Water Heater Residential/Commercial: Level 3

Advanced | Classroom | 8 hrs | \$99

Advances beyond installation to focus on troubleshooting and diagnostics of residential and commercial tankless gas-fired water heaters. Instruction addresses common performance complaints, combustion and venting issues, gas and water supply verification, control and sensor diagnostics, error-code interpretation, and proper use of test equipment to confirm root cause and restore reliable operation.

*Brands: Bradford White, Stream33, Noritz*

## Tankless Water Heater Applications & Sizing

Intermediate | Combination Specialty Lab & Classroom  
4 hrs | \$345 | CEU Pending

Learn how to properly select, size, and apply tankless water heaters for residential and light commercial installations. The course covers real-world demand calculations, venting considerations, and common installation mistakes. Contractors will gain the knowledge needed to prevent performance issues, improve system reliability, and confidently recommend tankless solutions to customers.

*Brands: Bradford White, Lochinvar*

## Traps & Interceptors

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Reviews the purpose, application, and code requirements for plumbing traps and interceptors. The course focuses on proper selection, sizing considerations, installation intent, and common issues that lead to performance problems or inspection failures.

*Brands: Multiple*

## Vessel Sink Installation

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Develop applied knowledge of vessel sink installation with an emphasis on real-world service and installation scenarios. Training focuses on best practices and common field challenges.

*Brands: Multiple*

## Tank Water Heater Installation

Apprentice | Specialty Lab | 4 hrs | \$345 | CEU Pending

Learn code-compliant installation of tank water heaters including venting, gas/electric connections, and safety devices. Students will practice start-up, temperature setting, and troubleshooting basics.

*Brands: Bradford White*

## Tankless Gas-Fired Water Heater Residential/Commercial: Level 2

Intermediate | Classroom | 4 hrs | \$80

Provides a Level 2 overview of tankless water heaters, covering brand orientation, model identification, and product selection. Instruction also addresses installation requirements and procedures, venting and combustion air considerations, required tools and test equipment, and manufacturer-recommended practices that support safe installation, verification, and inspection readiness.

*Brands: Bradford White, Stream33, Noritz*

## Tankless Gas-Fired Water Heater Residential/Commercial: Levels 1 and 2 Combined

Intermediate | Classroom | 8 hrs | \$99

Provides a combined Level 1 and Level 2 overview of tankless water heaters, covering brand orientation, model identification, and product selection. Instruction also addresses installation requirements and procedures, venting and combustion air considerations, required tools and test equipment, and manufacturer-recommended practices that support safe installation, verification, and inspection readiness.

*Brands: Bradford White, Stream33, Noritz*

## Tankless Water Heater Installation Lab

Intermediate | Specialty Lab | 5 hrs | \$435 | CEU Pending

Experience hands-on installation and commissioning of tankless systems including venting, condensate, and set-up parameters. Technicians will interpret error codes and apply troubleshooting steps to common field issues.

*Brands: Bradford White, Lochinvar*

## Troubleshooting Water Heater Controls

Intermediate | Classroom | 2 hrs | \$60 | OCILB

Troubleshoot water heater controls using code-compliant methods. The course emphasizes safe installation practices, common field failures, and testing procedures that support consistent operation and inspection readiness.

*Brands: Multiple*

## Water Pipe Sizing

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Covers water pipe sizing fundamentals using code-based fixture units, demand, and pressure/velocity considerations. The course emphasizes applying sizing methods to select compliant pipe sizes that support reliable flow and inspection readiness.

*Brands: Multiple*



# PLUMBING

## Water Pressure Regulation & Control

Apprentice | Combination Specialty Lab & Classroom  
3 hrs | \$255 | CEU Pending

Gain a practical understanding of how pressure-reducing valves, thermal expansion control, and system protection work together. Through classroom instruction and hands-on lab work, contractors will learn to install and adjust regulators and recognize symptoms of improper pressure control before damage or service issues occur.

*Brands: Watts*

## What to Do When the Plumbing Code is Silent

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Explores how to make informed, defensible decisions when plumbing codes do not explicitly address a condition or installation. The course focuses on code intent, documentation, inspector communication, and best practices for supporting approval when requirements are unclear.

*Brands: Multiple*

## Water Quality, Filtration & Treatment

Intermediate | Classroom | 2 hrs | \$60 | CEU Pending

Explore common water quality issues and treatment options, including filtration and conditioning systems. Contractors will learn how water quality affects fixtures and water heating systems and how to recommend appropriate solutions based on customer needs and system conditions.

*Brands: Sterling*

## When a Plumbing Inspection is Disapproved

Intermediate | Classroom/Zoom | 1 hr | \$50/\$35 | OCILB

Reviews common reasons plumbing inspections are disapproved and how to address them. The course focuses on typical code violations, corrective actions, and practices that support successful reinspection approval.

*Brands: Multiple*





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4625 Foster Ave.  
Ashtabula, OH 44004  
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4300 Roberts Rd.  
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234-378-9505  
160 Commerce Dr.  
Medina, OH 44256  
After Hours: 330-813-5210

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934 W. Adams St.  
Steubenville, OH 43952  
After Hours: 304-914-1689

### Bedford Heights | 14 ☺

216-285-2900  
26200 Richmond Rd.  
Bedford Heights, OH 44146  
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937-242-6980  
1054 Gateway Dr.  
Dayton, Ohio 45404  
After Hours: 937-242-6980

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412-622-8100  
434 Melwood Ave.  
Pittsburgh, PA 15213  
After Hours: 412-310-8228

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419-478-0343  
220 Matzinger Rd.  
Toledo, OH 43612  
After Hours: 419-392-2669

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412-835-8043  
3131 Industrial Blvd.  
Bethel Park, PA 15102  
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### Dubois | 128

814-217-0050  
302 Aspen Way  
Dubois, PA 15801

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7300 Industrial Park Blvd.  
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85 Pittsburgh St.  
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8550 Brookpark Rd.  
Brooklyn OH 44129  
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814-314-1516  
3003 Pittsburgh Ave.  
Erie, PA 16508  
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740-263-4313  
330 Commerce Drive  
Mount Vernon, OH 43050  
After Hours: 567-241-8073

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330-369-2563  
2436 Niles Rd. SE  
Warren, OH 44484  
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1110 W Chestnut St.  
Washington, PA 15301  
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330-456-4508  
1215 McKinley Ave. SW  
Canton, OH 44707  
After Hours: 330-933-5598

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2148 Allen St., Ext.  
Falconer, NY 14733  
After Hours: 716-388-6886

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25 South 11th St.  
Newark, OH 43055  
After Hours: 740-219-9623

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2300 Market St.  
Wheeling, WV 26003  
After Hours: 304-830-1324

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339 Walnut St.  
Johnstown, PA 15091  
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331 Rochester Rd.  
Pittsburgh, PA 15237  
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234-706-3525  
886 E. Midlothian Blvd.  
Youngstown, OH 44502  
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11200 Madison Ave.  
Cleveland, OH 44102  
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125 East 20th St.  
Lorain, OH 44052  
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1341 Olds St.  
Sandusky, OH 44870  
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724-404-4021  
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Youngwood, PA 15697  
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