



For April and September Classes Peerless® Condensing Boiler Live-Fire Training Agenda - **Tuesday**

Location: Peerless Boiler Training Lab, Boyertown, PA

- 1:30 PM Welcome and Program Outline
- 1:35 PM Peerless Residential PureFire® Overview
- Breakdown Boiler Heat Exchanger, Gas Valve, Blower, Controls, Condensate Collector
- 1:45 PM Hands-on Training for PureFire® Installation, Set-up & Service:
- Gas Valve Internal Flow, Adjustments and Settings
 - Exhaust Venting Options that Don't Kill the Boiler
 - Learn How to Use an Electronic Analyzer to Tune Good Combustion
 - Fuel Conversion: Natural Gas & LP – All It Takes is a Screwdriver and Analyzer
 - Ignition Control – Learn the (not so) Hidden Secrets
 - Combustion Chamber Inspection & Set-up – You Don't Need a Stethoscope
- 3:15 PM Coffee Break in Training Center
- 3:30 PM Peerless PBC™ Combi & PFW Overview – Let's Make Hot Water!
- PBC™ Domestic hot water heat exchanger & DHW components
 - PFW200™ & PFW399™ conversion kit for large volume DHW
- 3:45 PM Hands-on Training for PBC™ and PFW™ Installation, Set-up & Service:
- PBC™ Combi-Bloc Heat Exchanger, Pump and Fittings – It's All in There and You'll See How to Get Them Out, If You Want
 - Easiest Ways to Pipe DHW Loop Especially with Optional Plumbing Kits
 - What If the Potable Water is Hard (as a Rock)? Let's Treat That!
 - Three-in-One Vent Adapter – You Like PVC, PolyPro, Stainless? Pick One
 - How Much Do I Need? DHW Capacity Sizing and Flow Rate Calculations
- 5:00 PM Dinner in Training Center (Buffet Style)
- 6:00 PM Coffee and Dessert at Boyertown Museum of Historic Vehicles;
Located 6 blocks from Training Center. Complimentary one hour guided tour of museum is included.
- 7:00 PM Check in at Comfort Inn if staying over.



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- 7:00 AM Continental Breakfast in Training Center
- 7:15 AM Foundry, Machining & Assembly Tour
- 9:00 AM Coffee Break in Training Center
- 9:15 AM Color of Water – Hydronic Systems with Live System Example
- Death by Short-Cycle – Why Proper Boiler Sizing Really Matters
 - Quick & Dirty Heat Load Sizing – Bring a Pencil – It’s Simple
 - Real Heat Loss – You Bring the Laptop, We’ll Give You the Software
 - Can I Get 100,000 BTUs Through ¾” Pipe? We’ll Look at the Charts and See
 - Why Do I Need Primary/Secondary Piping. What’s a Buffer Tank? Pipe for Flow
 - One Size Fits All – Will the Circulator Move the Water? Remember - Flow & Head
 - What Else Do I Need? Expansion Tank, Check Valves, Air Eliminators, Ball Valves
 - Is an Indirect Water Heater a Good Investment? Will the Savings Beat the Cost?
- 10:45 AM Coffee Break in Training Center
- 11:00 AM Sharp-Shooter Troubleshooting:
- Where Did That Combustion Air Come From? What’s In It?
 - Electrical Grounding Makes the Sensors Work. How to Check Your Ground
 - How Many Cycles (Ignitions) Are Too Many - 1000/Month? Where to Find Cycles
 - Quickly Find the Source of that Lock-Out and Get Rid of It - Make a Plan of Action
 - Make the Boiler Last Longer – Tune-ups and Service
 - Fixing an Over-Sized Boiler – Can It Be Done?
- 11:45 PM Lunch in Training Center
- 12:15 PM The Big Guns - PFC™ Commercial PureFire® and Building Automation
- Making Two Burners Work in One Boiler and also in Multiple Boilers
 - Combining Multiple Boilers in One Vent System with Special “Flapper Valve”
 - Communicating One or More Boilers to a Building Automation System
- 1:00 PM Program Wrap-Up, Distribution of Boiler Rebate Coupons, Evaluation & Thank You