



# 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** Tour 3 Dog Garage Auto Museum -  
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 Hotel + Coffee & Pastries in Training Center
- 7:15 AM** Cast Iron 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 Boiler Oversizing 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 3/4” 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
- 11:00AM** 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 Certificates, Boiler Coupons and Seminar Feedback Forms

Thank You