



For June and October Classes Peerless® Cast Iron and Condensing Boiler Live-Fire Training Agenda - **Tuesday**

Location: Peerless Boiler Training Lab & Trailer, Boyertown, PA

1:30 PM Welcome and Program Outline

1:35 PM WBV Oil-Fired Boiler – Burner Set-up

- Combustion Analysis, CO₂ vs O₂, Efficiency, Draft, Oil Pressure & Piping
- Burner Breakdown, Nozzle Change & Size, Electrode Setting, Air Settings
- Wiring Burner and Controls, Power Venter vs Direct Vent
- Annual Service & Tune-up, Cleaning Flue Passages and Chamber

Hydrostat Controls for Cast Iron Boilers

- Preventing Flue Gas Condensation
- Control wiring with system controls
- Temperature setting & mounting options

Heat Load and Energy Savings Calculations

3:15 PM Coffee Break in Training Center

3:30 PM Color of Steam

- Steam Boiler Sizing, Radiator Sizing Charts, Square Ft of Steam vs BTUs
- Knocking out Water Hammer - Steam Velocity, Pipe Pitch
- Near Boiler Piping, Hartford Loop, Swing Joints, Dimension A, Drop Headers
- Clean, Dry Steam from Boiler Skimming
- Pressuretrols, Vaporstats, Low Water CutOffs
- One-Pipe vs Two-Pipe, Vents and Traps

DE Gas-Fired Boiler

- Breakdown Electronic Ignition and Safety Controls, Check Gas Pressure
- Fuel Conversion with Gas Valve & Pilot, Wiring Controls

5:00 PM Dinner in Training Center (Buffet Style)

6:00 -7:00 PM Coffee and Dessert at Boyertown Museum of Historic Vehicles;
Located 6 blocks from Training Center. Complimentary one hour guided tour of museum included.

7:00 PM Check in at Comfort Inn if staying ove



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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 Residential PureFire® Condensing Gas-Fired Boiler

- Gas Valve Breakdown and Settings
- Exhaust Venting Options that Don't Kill the Boiler
- Learn How to Use 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

PBC™ Combi and PureFire PFW® DHW Supply Boiler

- 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? You Pick
- How Much Do I Need? DHW Capacity Sizing and Flow Rate Calculations

11:45 PM Lunch in Training Center

12:30 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