Heating & Cooling

Standard Work Specifications Tool

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• Evaluate Air flow pg 294 section 8.12
  – When are tests required
  – What if you are not in the manufactures specs?
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• Combustion-Safety Evaluation
  – Combustion-Safety Observations
  – Leak-Testing Gas Piping
  – Carbon Monoxide (CO) Testing
  – Worst-Case CAZ Depressurization Testing
  – Evaluating Combustion Air at Worst-Case
  – Mitigating CAZ Depressurization and Spillage
  – Combustion-Air-Related Solutions

• Electronic Combustion Analysis
  – Critical Combustion-Testing Parameters
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• Heating System Replacement
  – Combustion Furnace Replacement
  – Gas-Fired Heating Installation
  – Combustion Boiler Replacement
  – Oil-Fired Heating Installation
  – Evaluating Oil Tanks

• Combustion Space Heater Replacement
  – Space Heater Operation
  – Unvented Space Heaters
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• Gas Burner Safety & Efficiency Service
  – Combustion Efficiency Test for Furnaces
  – Inspecting Gas Combustion Equipment
  – Testing and Adjustment

• Oil Burner Safety and Efficiency Service
  – Oil Burner Testing and Adjustment
  – Oil Burner Inspection and Maintenance

• Inspecting Furnace Heat Exchangers

• Wood Stoves
  – Wood Stove Clearances
  – Stove Clearances
  – Wood Stove Inspection
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- Inspecting Venting Systems
  - Vent Connectors

- Chimneys
  - Masonry Chimneys
  - Manufactured Chimneys
  - Chimney Terminations
  - Air Leakage through Masonry Chimneys

- Special Venting Considerations for Gas
  - Venting Fan-Assisted Furnaces and Boilers
  - Venting Sealed-Combustion Furnaces and Boilers
  - Sidewall Power Venting
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• Ducted Air Distribution
  – Sequence of Operations
  – Solving Airflow Problems
  – Unbalanced Supply-Return Airflow Test
  – Evaluating Furnace Performance
  – Improving Forced-Air System Airflow

• Evaluating Duct Air Leakage
  – Troubleshooting Duct Leakage
  – Measuring Duct Air Leakage with a Duct Blower
  – Measuring House Pressure Caused by Duct Leakage
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• Sealing Duct Leaks
  – Sealing Return Ducts
  – Sealing Supply Ducts
  – Materials for Duct Sealing
• Duct Insulation
  – Spray Foam Duct Insulation
• Hot-Water Space-Heating Distribution
  – Boiler Efficiency and Maintenance
  – Distribution System Improvements
• Steam Heating and Distribution
  – Steam System Maintenance
  – Steam System Energy Conservation
• Programmable Thermostats
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• Electric Heat
  – Electric Baseboard Heat
  – Electric Furnaces
  – Central Heat-Pump Energy Efficiency
  – Room Heat Pumps
  – Ductless Minisplit Pumps

• Evaluating Ducted Central Air-Conditioning Systems
  – Central Air-Conditioner Inspection
  – Air-Conditioner Sizing
  – Duct Leakage and System Airflow
  – Evaluating Air-Conditioner Charge

• SWS Alignment