



Steam Systems

Two Day Seminar

Introduction

Best Practices

- Why Steam?
- Challenges, Opportunities, and Successes
- Total Steam System Optimization
- Available Resources

Steam Fundamentals

- Terminology
- Quality
- Generation
- Condensation
- Heating Surface

Steam System Management

- Safety Equipment
- Maintenance
- Troubleshooting

Piping and Fittings

- Installation By Welding
- Pipe Threading
- Piping Insulation

Condensate Systems

- Condensate Returns
- Lifting Condensates
- Pressure Operated Pump
- Deaerators
 - How They Work
 - Steam Consumption
 - Insulation
 - Function Clarification
 - Pressure Fluctuation
 - Types
- Condensate Audits

Steam Traps

- Primary Categories of Traps
- Effects of Varying Loads on Liquid Expansion Traps
- Types of Traps-Advantages and Disadvantages
- Steam Trap Troubleshooting
- Steam Trap Sizing and Selection

Steam Pressure and Temperature Controls

- Pressure Regulation
 - Which should you use?
 - Correct Installation of PRV
 - Proper Installation of Auxiliaries
- Temperature Controls
 - Types
- Accuracy or Proportional Band Considerations

Steam System Valves and Fittings

- Applications
- Energy Savings
- Availability
- Installation of Steam Traps

