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Heat Transfer Products For Industry

# Boiler Operator Training

**August 7-11, 2017 (RSVP by 07/11/17)**

5141 Forsyth Commerce Rd.  
Orlando, FL 32807  
(407) 373-0042

**\$1,500** per person

*RSVP Early, Spacing Limited to 20*



## Instructor

**Byron D. Nichols**

*Thermal Systems Training, LLC*

### **Biographical information:**

*Over 30 years of hands-on power plant operation and management experience.*

*Graduate of New River Community College – Associate of Applied Science in Process Instrumentation / Electronics.*

*Graduate of Old Dominion University – Bachelor of Science in Mechanical Engineering Technology.*

*Registered American Society of Power Engineers Master Chief and Technical Instructor.*

*Association of Energy Engineers Certified Energy Manager.*

*Currently serving Virginia Tech as Senior Associate Director of Utilities.*

**This 5-day course is for Steam Plant Operations, Steam Plant Maintenance Personnel; Steam Plant Supervisors/Managers, Facility Operations/Maintenance Personnel, and anyone associated with energy conversion.**

## Topics

- **Boiler Theory Principles**
- **Boiler Construction and Design**
- **Steam System Controls**
- **Water Supply Systems and Controls**
- **Water Treatment Systems and Controls**
- **Fuel Systems and Controls**
- **Draft and Flue Gas Systems and Controls**
- **Instrumentation and Control Systems**
- **Boiler Operation and Maintenance**
- **Boiler System Optimization**

*“...energy efficiency is one of the most important topics and is discussed throughout the class.”*

**4th Annual Training to be held in our  
New Training Center at**



Thermal Tech, Inc.  
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### **Previous Student Comments**

*“This isn’t a give-me course.” “Well worth the time.” “I learned a lot!” “Excellent Course!” “Keeps You Involved.”*

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## Training Outline

Course Base Text: *Boiler Operators Workbook, ATP, 4th edition*

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### Day 1

Basic Section Overview  
Pretest  
Review Pretest  
Text and Class Material Introduction  
Chapter 1, Steam Boilers  
Chapter 2, Boiler Systems  
Chapter 3, Steam System Fittings  
Additional Topics  
Homework - read chapters 1–6, read glossary, complete chapters 1, 2, & 3 Exams.

### Day 2

Review chapters 1, 2, & 3 Exams  
Chapter 4, Steam System Accessories  
Chapter 5, Feedwater Systems  
Chapter 6, Water Treatment  
Additional Topics  
Homework - complete chapters 4, 5, & 6 Exams, read chapters 7-9

### Day 3

Review chapters 4, 5, & 6 Exams  
Chapter 7, Combustion Equipment  
Chapter 8, Fuel and Combustion  
Chapter 9, Combustion and Boiler Controls  
Additional Topics  
Homework – complete chapters 7, 8, & 9 Exams, read chapters 10-12.

### Day 4

Review chapters 7, 8, & 9 Exams  
Chapter 10, Draft Systems  
Chapter 11, Instrumentation and Control Systems  
Chapter 12, Steam Boiler Operation  
Additional Topics  
Homework - complete chapters 10, 11, & 12 Exams

### Day 5

Review Chapters 10, 11, & 12 Exams  
Post test  
Comprehensive Course Review (morning)  
ASOPE Exam Session (afternoon)

*This Class is a Prep for the  
ASOPE Boiler Operator's License*

