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# BH02 Chilled Water Plants for Central Cooling System 4-Day Seminar

**Cost:** \$925.00 includes all seminar fees and student text. (For on-site, call us for price quotes).

## **Intended Audience:**

- Operators and related technical personnel responsible for operating central chilled water systems
- Universities and colleges
- Hospitals and medical complexes
- Military bases
- Industrial plants
- Food processing plants
- Pharmaceutical plants
- Commercial complexes
- Federal facilities

## **Benefits:**

This practical course is your opportunity to focus on applications of the latest technologies for central boiler (utility) plant design, remodeling, or existing plant analysis. Throughout this course the discussions will emphasize gas and oil fuels. In many cases we will also discuss controls, and piping and equipment for plants that have some coal-fired boilers in addition to gas and oil boilers. Except for the fuel firing and ash handling, all other piping and plant auxiliaries are similar. By attending, you'll learn from the Mr. Thomas Dillon and others about the non-power generation boilers now available on the U.S. market, and you'll learn where and when to use them, and how to specify them.

## **Topics:**

- Cooling Towers; How Cooling Towers Work
- Condenser System Types; Advantages/Disadvantages
- Practical Aspects of Cooling Tower Selection and Operation
- Testing and Certification (Universal)
- Central Chilled Water Plant
- Cooling Coils, Chillers, Piping
- Central Plant Ice Storage Systems
- Control Systems for Plants with Multiple Chillers
- Chillers and their Control and Control Interlocks
- Start-up and Control of Multiple Chillers with Constant Speed, or Variable Speed Pumps
- Control Strategies, System Control Analysis
- Chiller Selection, Setpoint and Recovery Programs
- Free Cooling – Chilled Water Without Chiller
- Pumps and Piping Systems
- Multiple Pumps and Combined Pump Curves
- Primary Distribution, Secondary Distribution Systems
- Local Pumping
- New Chiller Concepts
- Open Drive Chillers