



CONTRACTOR EDUCATIONAL SERIES COURSE CATALOG

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PRODUCTS REPRESENTED

Condensing & Non-Condensing Gas-Fired Boilers • Low Ambient Air & Water Source Heat Pumps

Compact Modular Chillers • Storage Tanks • Electric Resistance Water Heaters

On-Demand Tankless Water Heaters • Indirect Fired Water Heaters • PTACs

NSF Rated ASHRAE Compliant Pressure Boosters • Wastewater Systems

NSF Rated Custom Tank Fill Systems • Vertical Inline Pumps • Base Mounted End Suction Pumps

Condensate Pumps • Vertical Multistage Pumps • Automatic & Manual Balancing Valves

Coil Hookup Kits • Stainless-steel Hoses & Flex Connectors

Brazed Heat Exchangers • AHRI Certified Plate & Frame Heat Exchangers • Shell & Coil Heat Exchangers

Clean Steam Generators • Buffer Tanks & Flash Tanks • Condensate Coolers • Compact Electric Boilers

Kickspace Heaters • Cabinet Unit Heaters • Steam & Hot Water Convectors

Commercial Fin Tube • Baseboard Replacement Covers

Hydronic Baseboard Heating Element & Replacement Fins • ASME & Non-ASME Expansion Tanks

Air Separators • Stainless-steel & Polypropylene Venting • Condensate Neutralization Solutions

On-Demand Recirculation Pumps & Controls

ABOUT THERMAL SYSTEMS ASSOCIATES, INC.

Thermal Systems Associates, Inc is a manufacturer's representative specializing in commercial plumbing, mechanical, and HVAC equipment; focused on new technology and optimized system design. We offer complete system solutions, consisting of high-quality equipment from respected manufacturers, that can improve or integrate with your design objectives. Our team is familiar with all New York and New Jersey building codes and can provide design build services.

Our Technical Training Department is dedicated to supporting the MEP trades. Thermal Systems Associates offers a wide range of Contractor focused design and product support courses. We offer our expertise in mechanical and commercial plumbing systems.

Courses are offered remotely, in-person, or at our training facilities located in New York City and the Hudson Valley.

OUR TECHNICAL TRAINING TEAM

Justin Randolph

Technical Sales/Product Training

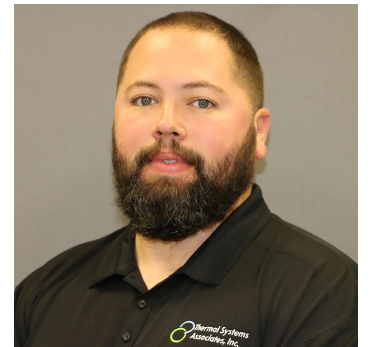
Coming from generations of talented technicians and gifted mechanical gurus, Justin brings his over 10 years of commercial HVAC and plumbing experience to Thermal Systems as a contractor oriented Technical Salesman. Justin started in this industry as a field technician with a family-owned HVAC company, later moving in to wholesale management and sales. An accomplished singer/actor, Mr. Randolph draws on his years of stage experience to create engaging, concise, and informative training classes for Thermal System's customers and their clients.



Don Henderson

Director of Sales

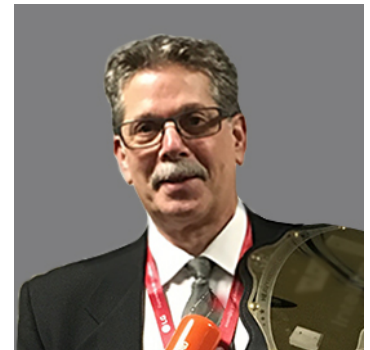
Don Henderson draws from over 8+ years of experience as a Manufacturer's Representative, he draws on his teaching experience to educate contractors, engineers, and end users on a complete system solution in the commercial HVAC/Plumbing Industry.



Paul Fauci

Sales Engineer

Paul has been in the HVAC industry for over 40 years. Formally with Slant/Fin Corp as Regional and Factory Direct Sales Manager. Solid foundations with the Engineering, General Contractor, Mechanical, Wholesaler, and Builders Community. Marine Corp. Veteran 1974



COURSES OFFERED

	HOURS
Commercial Hydronics #1: Modern Gas-Fired Hydronics	1.5
Commercial Hydronics #2: Piping & Pumping	1.5
Air & Water Source Heat Pump System Design	1.5
Heat Exchanger Applications	1.5

*Thermal Systems Associates, Inc. also offers Service & Technician Training at our facilities.
Please reach out to us for more information on these classes.*

Commercial Hydronics #1: Modern Gas-Fired Hydronics



Course Duration

1.5 Hours

Course Summary

Starting with heat transfer principles and hydronic fundamentals, we will breakdown modern heating systems with fossil fuel boilers. Join us to learn about condensing versus non-condensing systems, the importance of burner turndown and combustion control as well as key system parameters.

Equipment Covered

Condensing Boilers

Manufacturers Covered

RBI

Commercial Hydronics #2: Piping & Pumping



Course Duration

1.5 Hours

Course Summary

A sequel to Hydronics #1. In this course we will cover boiler plant piping concepts, as well as pumps, air management, hydronics accessories and controls. After our classroom session, we will get hands-on as we engage in pump alignment and service training.

Equipment Covered

- Condensing Boilers
- Pumps
- Hydronic Accessories
- VFDs
- Controls

Manufacturers Covered

RBI, Plad, Franklin Electric, Wilo, Reco, American Wheatley

Air & Water Source Heat Pump System Design



Course Duration

1.5 Hours

Course Summary

Thermal Systems is leading the way in commercial hydronic heat pump equipment and system design. Join us and learn how air and water source heat pumps provide not only space heating, but also Domestic hot water for commercial applications of all types. Learn how heat pumps are **not** just for split air systems.

Equipment Covered

- Air-to-Water Heat Pumps
- Water-to-Water Heat Pumps
- Indirect Water Heaters
- Electric Resistance Water Heaters
- Pumps
- Hydronic Accessories
- Buffer Tanks

Manufacturers Covered

Transom, RBI, Ergomax, Plad, Wilo, Reco, American Wheatley

Heat Exchangers Applications



Course Duration

1.5 Hours

Course Summary

In this course we will detail all the different heat exchanger types as well as system application and design. Heat exchangers allow you to provide innovative and flexible solutions, including pressure breaks, partition fluid systems, glycol isolation as well as waste heat recovery solutions.

Equipment Covered

- Gasketed Plate & Frame Heat Exchangers
- Brazed Plate & Frame Heat Exchangers
- Shell & Tube
- Shell & Coil
- Indirect Water Heaters

Manufacturers Covered

Reco, Hexonic, Ergomax

WANT SUPPORT BEYOND CLASSES?

In our 10+ years of supporting the Commercial Plumbing, Mechanical, and HVAC Industry, we have become seasoned experts in our field and ready to help in every stage of your project.

- **Sales Support**

We'll join on a site visit to assist in identifying the needs of your project and getting a better understand of what that project entails.

- **Design Build Services**

We specialize in comprehensive system design and design build opportunities. Each product is selected based on local code, highest efficiency and lowest operating costs.

- **Product Selection Support**

We are pleased to provide engineered product selections and system design support.

- **Product & Services Presentations**

We would like to offer your team a complimentary products and services presentation, either remotely or in-person. We will review our products, local code compliance, value engineering and modern system design.

CONTACT US

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