PRICE ENGINEERING TRAINING

2023 Dates Open for Registration: June 21-22 | August 2-4

OVERVIEW

The Price Engineering Training (PET) course equips you with the knowledge and expertise to design successful spaces. Classes focus on air distribution fundamentals and applications of the Price product offering. Engineers that complete this program will leave with a superior understanding of foundational air distribution theory and the application of new technologies.

AGENDA

The fundamental sessions will cover the foundational principles of HVAC, Introductions to Price product solutions, and basic concepts. The session will include product focus on GRDs, Terminals, AIO for engineers and Noise Control.

REGISTRATION

Havtech, your Price representative, will cover the costs for both formats of training. Please note in your registration "Havtech" as responsible for the class fee and use your Havtech representative's contact information.

Click Your Preferred Training Dates below to Register or email **marketing@havtech.com** and we will register you.

IN-PERSON TRAINING
(INTRO)
PTCE, Suwanee, GA
May 3-5 2023
CLASS FULL, WAITLIST ONLY

IN-PERSON TRAINING
(HAVTECH PRIVATE PET)
PTCE, Suwanee, GA
June 21-22 2023

IN-PERSON TRAINING
(ADVANCED)
PTCE, Suwanee, GA
August 2-4 2023

Professional Development Hours (PDH): Each training is accredited for *a minimum of 10 Professional Development Hours*

price® HAVTECH

PRICE ENGINEERING TRAINING COURSE OUTLINE

FUNDAMENTALS – ALL ATTENDEES COMPLETE THESE

PRICE SOFTWARE OVERVIEW
PTP 100* | Beginner

Introduction to various Price All-In-One (AIO) software modules and product selection platform, online resources including priceindustries.com, and the digital Price Engineer's HVAC Handbook.

HVAC PRODUCTS OVERVIEW
PTP 300* | Beginner

This class reviews various air distribution system options to allow for a high level understanding of what to consider when starting a new project including product fundamentals, relevant standards, and specifications.

DESIGNING FOR THERMAL COMFORT
PTP 501* | Beginner

The goal of an HVAC system is to create a thermally-comfortable environment for a building's occupants. This class explores the scientific principles used to quantify thermal comfort and the methods that may be applied to design a thermally comfortable environment.

MIXED AIR DISTRIBUTION SYSTEMS
PTP 1000* | Beginner

Mixed Air Distribution Systems using Grilles, Registers and Diffusers (GRD) continue to be the most common air distribution system and have been around for nearly 100 years. This class reviews applicable ASHRAE standards, sound, pressure drop, air patterns, and some common applications.

FUNDAMENTALS OF HVAC ACOUSTICS
PTP 2100* | Intermediate

HVAC systems have an acoustical impact on building occupants. This class reviews various acoustical terminology and design criteria before addressing several HVAC systems and their noise considerations.

FUNDAMENTALS OF AIR MOVING
PTP 4005* | Intermediate

Terminal units have been used in overhead air distribution systems for decades. This class will discuss fundamentals of terminal unit operation and design as well as some of the standards and factors that impact selection.

ELECTIVES – ATTENDEES COMPLETE BASED ON THEIR INTEREST †

INSTALLATION CONSIDERATIONS
PTP 1026* | Intermediate

ASHRAE standards 70 and 130 specify how performance data for GRD and Terminal units, respectively, is generated. While the resultant data is standardized, it is not always representative of actual installations. This class explores catalog data and how installation techniques affect performance.

NOISE CONTROL PRODUCTS
PTP 2303* | Intermediate

This class reviews Noise Control products and their relevant applications, factors affecting performance, and optimum inlet and outlet conditions. Attendees should leave with an understanding of what to consider when selecting and specifying Noise Control products.

ACOUSTIC ANALYSIS
PTP 2400* | Intermediate

Price Acoustic Analysis software assists in analyzing HVAC systems and selecting Noise Control products to meet project requirements. Attendees are encouraged to download Price All-In One (AIO) software on our website and request access to the Acoustic Analysis module ahead of this class.

LABORATORY CONTROL DEVICES
PTP 3201* | Advanced

Laboratory control devices are utilized in laboratory and healthcare HVAC systems and offer higher accuracy accuracy, greater turndown ratios, and faster speed of response compared to standard accuracy control devices. This class reviews options and benefits of laboratory control devices.

Typical 1 day visit (8 hours) allows for 4-5 classes, factory and lab tour, PTC tours and lunch
† PET Elective classes offered vary (typically 10) and are confirmed ahead of each PET

PRICE ENGINEERING TRAINING COURSE OUTLINE

TERMINAL UNITS – VAV & FAN-POWERED
PTP 4100* | Intermediate

Terminal units have been used for decades. This class explores various terminal unit configurations for a wide range of applications and conditions including relevant test standards.

TERMINAL UNITS – FAN COILS & DOAS
PTP 4111* | Intermediate

Dedicated outdoor air systems (DOAS) used in tandem with fan powered chilled water terminals or fan coils provide energy efficient solutions. This class also looks at some parallel systems used with DOAS air handlers.

DOAS FAN-POWERED TERMINAL UNIT ADVANTAGES
PTP 4112 | Advanced

This class offers a brief introduction to series FPTU's with sensible coils, with the majority of time spent building on foundation concepts introduced in previous DOAS presentations. This class discusses more advanced topics such as DOAS sequencing and common pitfall of series FPTU with sensible cooling coil applications.

VAV DIFFUSERS
PTP 4350* | Intermediate

VAV diffusers can provide a high level of comfort and energy savings accomplished by the diffuser's inherent ability to maintain a constant discharge velocity and air pattern throughout the VAV airflow range. Product attributes and typical system designs are presented in this class.

CONTROLS
PTP 4400* | Advanced

HVAC Controls are the devices that make HVAC systems function as needed. A well designed system will provide comfort and control energy use. This class will review basic control theory and commonly used control devices to accomplish those functions.

UNDERFLOOR AIR SYSTEMS
PTP 5000* | Intermediate

Underfloor Air Distribution (UFAD) utilizes the raised access floor system plenum for distributing air into a space with superior flexibility and modularity through easy to install drop-in products. This class discusses design considerations and other relevant standards and codes.

Webinars available online with same or similar PTP number

** All classes are worth 1 Professional Development Hour (PDH)*

DISPLACEMENT VENTILATION
PTP 6000* | Intermediate

Displacement Ventilation (DV) has been implemented for decades with success in reducing energy consumption in buildings while improving the Indoor Environmental Quality. This class will focus on the latest design methods and relevant codes and standards when applying DV including project examples.

CHILLED BEAMS
PTP 7005* | Intermediate

Chilled Beam systems use water and air to efficiently condition spaces and have been gaining traction for decades. This class covers the fundamentals of Chilled Beams and design considerations including project examples.

CHILLED BEAM SYSTEM DESIGN
PTP 7008* | Advanced

This class explores Chilled Beam software that allows for easy selection and system design based on project requirements. The class also provides step-by-step training by walking through several Chilled Beam project examples.

HIGH PERFORMANCE SCHOOLS
PTP 9000* | Intermediate

High Performance Schools (HPS) at Price presents a variety of efficient air distribution technologies that have achieved significant improvements for school systems throughout North America to help meet the modern demands of operating educational facilities. We recommend viewing or understanding PTP 6000 and PTP 7008 content before viewing PTP 9000.

HEALTHCARE O.R. APPLICATIONS
PTP 9201* | Intermediate

Operating Room (OR) requirements continue to evolve as a result of various factors including robotic surgery, hybrid/imaging systems and seismic suspension. This class reviews challenges and presents various solutions.

OPTIMIZING LAB & CLEANROOM AIR DISTRIBUTION
PTP 9350* | Intermediate

Laboratories and Auxiliary Healthcare projects involve a diverse application of HVAC equipment. This class reviews the unique needs and air distribution solutions for Patient, Isolation and MRI rooms, Pharmacies, and Labs.

COMPUTATIONAL FLUID DYNAMICS
PTP 9800* | Intermediate

Computer based analysis tools such as computational fluid dynamics (CFD) can aid in the design of modern HVAC systems and this presentation showcases various project examples to support leveraging this powerful design tool.

RESOURCES

- **Software:** Price All-In-One Engineering Edition is available at https://www.priceindustries.com/software/all-in-one
- **Webinars:** Upcoming and recorded webinars are available at https://www.priceindustries.com/education/classes
- **Handbook:** The digital Price Engineer's HVAC Handbook can be accessed at https://info.priceindustries.com/handbook

QUESTIONS

For additional information, please contact the Price Events Team at events@priceindustries.com or your local Price Rep.

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