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ENGINEER TRAINING

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BUCKLEY
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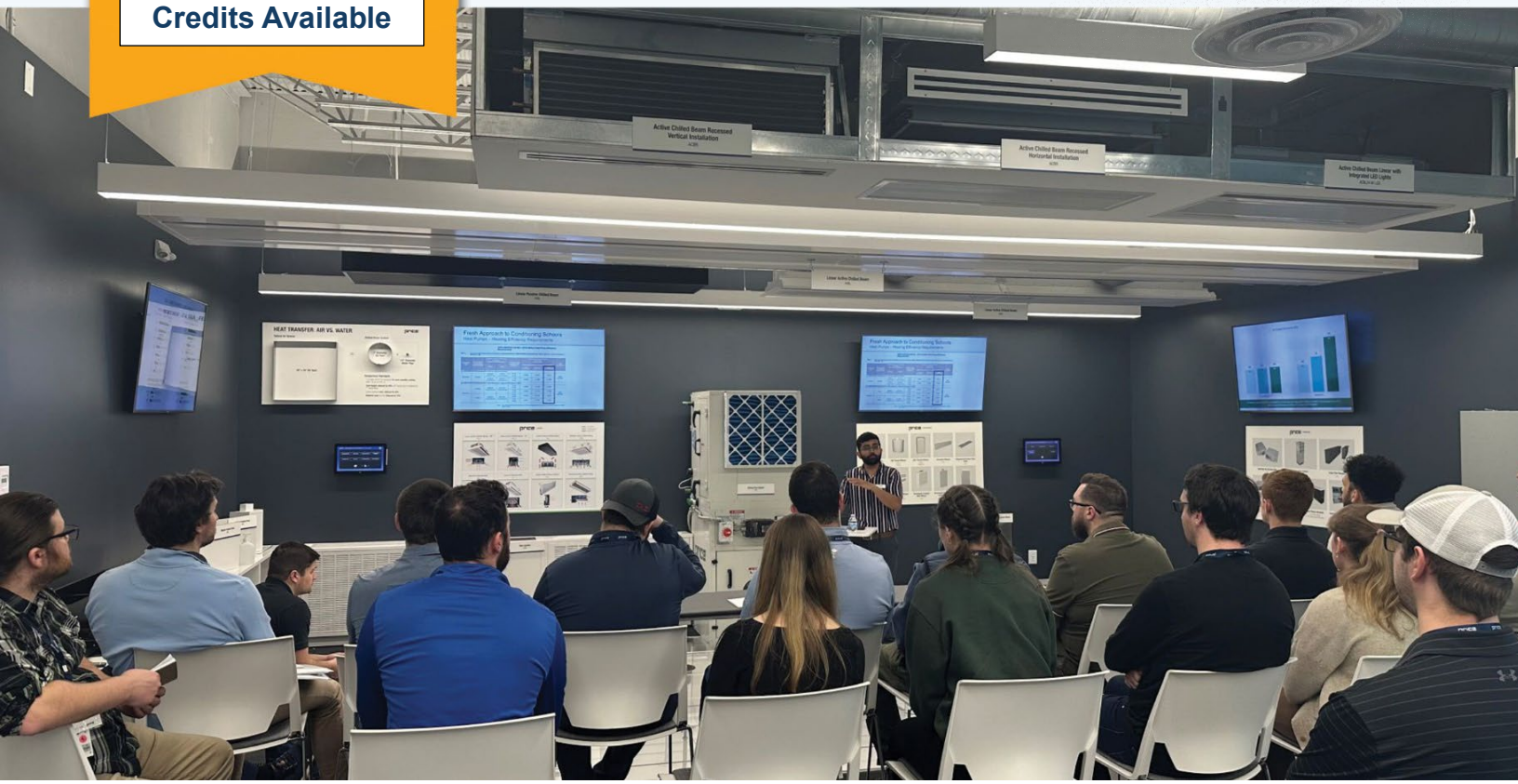
ACADEMY



Buckley Academy

Price Engineers Training

November 4, 2025
Buckley Training Room
1099 Hingham Street
Rockland, MA
8:00 AM – 5:00 PM

November 5, 2025
Doubletree Hotel
123 Old River Road
Andover, MA
8:00 AM – 5:00 PM

November 11, 2025
Courtyard Marriott Hotel
4 Sebeth Drive
Cromwell, CT
8:00 AM – 5:00 PM

November 12, 2025
Hilton Trilogy Albany Airport
254 Wolf Road
Latham, NY 12110
8:00 AM – 5:00 PM

Agenda

8:00 am	Continental Breakfast
9:00 am	Sizing Single Duct & Fan Powered VAV Boxes
10:00 am	Designing with Chilled Beams – An Innovative Approach
11:00 am	Terminals and Fan Coils: Optimizing Acoustics
12:00 pm	Lunch Break
1:00 pm	Trench Heating Solutions
2:00 pm	Real World vs Catalog
3:00 pm	Software Demo - Price Excel Toolkit & Ripple Toolkit

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Course Descriptions

Sizing Single Duct & Fan Powered VAV Boxes

Terminal units are devices that are used to regulate the volume and temperature of air for each zone to maximize occupant thermal comfort and indoor air quality. While being fundamental to the modern HVAC design, their selection and optimization can be nuanced. This webinar will review best practices and rules of thumb for sizing single duct terminals, fan powered terminals, hot water reheat coils, and electric reheat coils. Additionally, we will review tools and strategies that help streamline the engineering design process and minimize submittal review.

Designing with Chilled Beams

The function and benefits of Chilled Beams are becoming well known. However, the supporting mechanical system can leave the designer with questions. This webinar will review the supporting system from the Airside System to the Hydronic System that will optimize the Chilled Beam operation.

Terminal and Fan Coils: Optimizing Acoustics

Acoustics is one of the most overlooked design elements within terminal unit system design. It is not uncommon to see scheduled sound data for a project incomplete, or ambiguous. This makes it very difficult for all stakeholders to ensure the end user is in an acoustically comfortable space that is not overdesigned. This dynamic has been

compounded with the recent trend towards cloud ceilings, exposed ceilings, and other acoustically challenging spaces. To address the needs of any project, the Design Engineer must be able to navigate this reality. In this presentation, we will discuss terminal unit acoustics to better educate ourselves on how terminal unit sound is generated, measured, certified, and cataloged.

Trench Heating Solutions (LFT)

Room perimeters require both heating and cooling depending on the season. Meeting this sensible load demand from a single air distribution device is a real engineering challenge. This presentation will explore the application of underfloor trench heaters and how they deliver conditioned air to the building perimeter in both heating and cooling.

Real World vs Catalog Performance for Grilles, Registers, and Diffusers

Grilles, Registers, and Diffusers often perform differently in the field relative to their catalog data. This is primarily because the installation methods used by contractors are different than the installation methods used by the manufacturer. This course explores how manufacturers develop their catalog data for air outlets and terminals and how common installation techniques will change their overall performance.

Software Demo (Price Excel Toolkit & Ripple HVAC Toolkit)

Price Excel Toolkit is a free performance generator that connects directly to your desktop Excel! This tool provides a suite of custom functions and tools that allow you to work with our rich and dynamic product information, including performance data, directly with your spreadsheets.

Ripple HVAC Tool automates diffuser and VAV selection, as well as placement using built-in load calculations. The tool is designed to enhance the efficiency and precision of your design project.