Practical **HVAC Knowledge**

FOR ARCHITECTS

HVAC GREENHECK UNIVERSITY

Achieve your potential.

Bernard A. Greenheck Education Center | Schofield, Wisconsin

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Expand your knowledge of the HVAC industry to provide your building owners with energy efficient heating and cooling systems to ensure the health, safety and welfare of their building occupants. In addition to the six courses outlined below, this event includes a tour of Greenheck's Education Center and new product development facility, the Innovation Center, which features a two-story office space that fosters innovation and collaboration among different business functions.

Course Guide

1. Allotting the Proper Space for Sustainable Mechanical Rooms: Reducing Fan System Effect to Reduce Fan Energy

Efficient fan selection is often compromised by applying under-sized fans and restricting airflow into and out of the fans. Learn how to quantify the effects of improper duct connections and witness the impact through a full scale demonstration. Evaluate the trade-offs between space savings and fan energy consumption

2. Understanding Sound

Acoustics is a critical design criteria for facilities. This course will focus on understanding acoustic terminology pertaining to the application of HVAC equipment inside and outside of the building envelope. You will learn the different sound ratings utilized by manufacturers and engineers, the difference between sound pressure and sound power, inlet, outlet and radiated sound from equipment and acoustic considerations for equipment mounted in and outside of building spaces.

3. Protecting Building Infrastructure in High-Wind Driven Rain Locations

Louvers used to allow a building to breathe in coastal applications must survive substantial wind loads, flying debris and wind-driven rain. Review present and proposed future International Building Codes and see how alternate product designs protect the building infrastructure from the elements.

4. DOE Update: Fan Energy Regulation

The U.S. Department of Energy is currently in the process of regulating fan designs that will be sold into the United States. Some types of fan configurations that are commonly used today will no longer be available in the near future. Learn how new regulations will impact fan selection, energy codes and what new technology is being implemented to address this.

5. Sustainable Building Ventilation: Energy Recovery Ventilator Benefits and Code Requirements

Air-to-air energy recovery ventilators offer quick payback for building owners and are often required to satisfy state building codes. Learn the pros and cons of several different types of heat transfer media and where they should be applied for optimum performance.

6. Insuring Human Safety in Fire and Smoke Emergencies: Application of Life Safety Dampers

This course provides basic information on life safety dampers — fire, fire-smoke and ceiling radiation — and their UL testing requirements, application and installation.

What others are saying

> **"The seminars were helpful in providing us with tools to engineer more energy efficient solutions to our projects that benefit our clients…a great benefit to our engineering team!"**
>
> *—Jason S.*
> *Creative Environment Corp.*

> **"The classes were interesting and interactive."**
>
> *—Brian M.*
> *BR+A*

> **"I learned quite a bit and also took away information that should help us improve the quality of our selections, drawings and specifications for our clients."**
>
> *—Bill G., LEED AP*
> *Yeaton Associates*

Instructors

- Greenheck Engineers
- Greenheck Product Managers

GREENHECK
Building Value in Air.

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General Information

Who Should Attend:

- Architects involved with building interiors

Schofield, WI Session:

- 1 Day
- 8 Class Hours
- 25 Participants

HVAC University Benefits:

- Learn HVAC applications by observing working demos
- Earn AIA credits for HSW topics
- Discuss changing codes and standards
- Learn about “system effect”
- Explore saving systems
- And more.

Reserve Your Spot:

Contact your local Greenheck representative.