



COURSE CATALOG 2024

Welcome



Welcome to Havtech Learning Institute

Havtech is the Mid-Atlantic's largest and most experienced commercial HVAC equipment, building automation systems, service and energy solutions provider in Maryland and the metro DC region.

About Havtech Learning Institute

Havtech Learning Institute offers industry-leading training programs for heating, ventilating and air conditioning (HVAC) professionals, owner/operators, contractors, service technicians, building and systems engineers, designers, distributors, sales reps and internal employees. Whether receiving manufacturer training in-person or virtually, we will create a tailored syllabus to meet the needs of your team. Different courses are offered at each Sales Office. Please note the class locations under each course description in the following pages. Off-site classes held by special request.

Cancellation Policy

All payments are due upon registration and are non-refundable. However, if a student should need to cancel and reschedule their training, they may do so at no additional charge, as long as the change is made prior to the start of class. Name changes are also permitted at any time prior to the beginning of the class. Rescheduling and/or name changes will not be permitted after the class has begun.

All class dates are subject to change. Havtech reserves the right to cancel any class if the minimum enrollment requirement is not met or in the event of inclement weather or illness. All students will be alerted as early as possible in the event of a cancellation. The student may then either register for the next available date for the same course, or they may request a refund.

Private Classes

Private classes are also offered at Havtech. Courses can be structured based on your requests. To request a private class, please email training@havtech.com.

Registration

To register for an HLI course, please visit www.havtech.com/training. For additional questions or for more information on classes not listed in this catalog, please email training@havtech.com or call (301) 206-9225.



Table of Contents

	Duration	Code	Page
VRV/VRF			
Daikin Comfort VRV® Installation <i>featuring Emerion</i>	8 Hours	LI-VIVL1	6
Daikin Comfort VRV® Commissioning <i>featuring Emerion</i>	16 Hours	LI-VIV008	
Daikin Comfort VRV® Service & Troubleshooting	16 Hours	LI-VRVST2	7
Daikin Comfort intelligent Touch Manager (iTM)	16 Hours	LI-ITM008	
Daikin Comfort Controls Integrator	8 Hours	LI-VRVCI08	
VRV Owners Training for Facilities Engineers & Maintenance Personnel	8 Hours	LI-VRVOP1	
VRV Owners Training for Owners & Facility Managers	4 Hours	LI-VRVOP2	8
Light Commercial Training			
Daikin Comfort Single/Multi-Zone Ductless Installation & Startup	8 Hours	LI-RIS008	12
Daikin Comfort VRV LIFE™ Install & Commissioning	8 Hours	LI-VRVLIFE	
Daikin Comfort FIT Install & Commissioning	8 Hours	LI-DFITMI	13
Light Commercial Installation & Commissioning	8 Hours	LI-LCIC08	13
HVAC Facilities Maintenance for High Efficiency Equipment	8 Hours	LI-HVACFM	14
Applied			
Daikin Applied MicroTech III/Rebel	24 Hours	LI-MT3REB	16
Daikin Applied MicroTech 4/Rebel Applied	24 Hours	LI-MT4REB	
VFD			
Eaton DH1 VFD Certification Training	8 Hours	LI-EDH1	17
Applications			
Daikin VRV® Local Design Workshops with WebXpress Guideline	8 Hours	LI-VRVDW	20
Professional Development			
Daikin Applied HVAC Systems Program	Self-paced	LI-DHVAC23	22
Price Industries Air Distribution Systems Program	Self-paced	LI-PRICE23	

Hands-On
Classroom



Virtual
Training

CLASS TYPE

VRV/VRF

Daikin VRV® Installation *featuring Emerion*



Course Code: LI-VIVL1

Description	Course covers the proper Installation practices for the Daikin VRV indoor and outdoor heat pump and heat recovery systems and accessories.
Target Audience	Design Build Mechanical Contractors, Installation Contractors, Technicians, Mechanics and Estimators
Duration	8 Hours
Prerequisites	None
Certification	No
Class Type	 






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Daikin VRV® Commissioning *featuring Emerion*

Course Code: LI-VIV008

Description	Course covers the proper practices for the Daikin VRV equipment product line to include the pre-commissioning and System Commissioning Steps, set up of Selected Remote Controller and Outdoor Unit Field Settings, Outdoor Unit with Ducted Discharge Air & Indoor Units.
Target Audience	Mechanical Contractors, Installation Contractors, Technicians, Mechanics and Estimators
Duration	16 Hours
Prerequisites	Attend Daikin VRV IV Installation (LI-VIVL1) within the last 2 years
Certification	No
Class Type	 


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Daikin VRV® Service & Troubleshooting		Course Code: LI-VRVST2	Owners Training Owners and Facility Managers		Course Code: LI-VRVOP2
Description	Course covers how to properly service and troubleshoot the Z VRV system using the proper instruments and procedures.		Description	Training covers Daikin VRV system function and normal operations related to customer service relationships. Key discussion points will be the need for timely repairs, tenant billing, loss of power concerns, and options available to provide tenants with remote access to their controllers.	
Target Audience	VRV Service Technicians		Target Audience	Facility Managers, Owners	
Duration	16 Hours		Duration	4 Hours	
Prerequisites	Attend Daikin VRV® IV Install (LI-VIVL1) and Daikin VRV® IV Commissioning (LI-VIV008) within the last 2 years		Prerequisites	None	
Certification	No		Certification	No	
Class Type	  BAL WDC PIT		Class Type	   BAL WDC PIT	

Owners Training for Facilities Engineers & Maintenance Personnel		Course Code: LI-VRVOP1	Daikin intelligent Touch Manager (iTM) Commissioning		Course Code: LI-ITM008
Description	Training covers basic operation of Daikin VRV Heat pump and heat recovery systems, proper routine maintenance procedures, and use of emergency function until a service call can be scheduled. As part of the training, a discussion on features and functions of the current Daikin remote controllers and the intelligent touch manager (iTM) is included.		Description	Course covers proper programming and commissioning of Daikin's iTM Controller. Students will configure and address indoor units, build schedules, Areas and Interlocks. They will also upgrade firmware and setup remote access on live controllers.	
Target Audience	Building Engineers, Building Managers, Property Managers, Owners Operation Team		Target Audience	Controls Commissioning Technicians, VRV Service Technicians	
Duration	4 Hours		Duration	16 Hours	
Prerequisites	None		Prerequisites	Attend Daikin VRV IV Install (LI-VIVL1) and Daikin VRV IV Commissioning (LI-VIV008) within the last 2 years	
Certification	No		Certification	No	
Class Type	   BAL WDC PIT		Class Type	  BAL WDC PIT	

Daikin Controls Integrator

Course Code: LI-VRVCI08

Description	Course held by request only. Course covers the understanding and successful application and the proper methods for integrating the Daikin VRV control system.
Target Audience	Commissioning Technicians, BMS Integrators, VRV Service Technicians
Duration	8 Hours
Prerequisites	None
Certification	No
Class Type	

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Light Commercial Training

Daikin Single/Multi-Zone Ductless Install & Start Up


Course Code: LI-RIS008

Description	Course covers how to properly install and start up Daikin Ductless systems using preferred servicing equipment and procedures.
Target Audience	Mechanical Contractors, Installation Contractors, Technicians, Mechanics
Duration	8 Hours
Prerequisites	None
Certification	No
Class Type	

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Daikin VRV LIFE™ Install & Commissioning

Course Code: LI-VRVLIFE

Description	Course covers how to properly install and start up the Daikin VRV LIFE Dual Fuel, “Mix and Match” system. The system can have a mix of VRV indoor units and one or two communicating gas furnaces.
Target Audience	Mechanical Contractors, Installation Contractors, Technicians, Mechanics
Duration	8 Hours
Prerequisites	None
Certification	No
Class Type	

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Description

Course covers the introduction, applications, and installation instructions for the Daikin FIT residential inverter air conditioning units. Topics covered are nomenclature, unit features, inverter technology and components, inverter benefits, boost mode, and indoor unit options. Also covered are commissioning procedures that include the ComfortNet installation and set-up, charge mode, start-up, and the required system test.

Target Audience

Mechanical Contractors, Installation Contractors, Technicians, Mechanics

Duration

8 Hours


Prerequisites


None

Certification

No

Class Type



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Description

Training will include discussion on the risk of poor maintenance practices on high efficiency HVAC equipment and how to properly perform maintenance and routine repairs on high efficiency air cooled, water cooled, and geothermal HVAC equipment, including VRV/VRF systems.

Target Audience

Mechanical Contractors, Installation Contractors, Technicians, Mechanics

Duration

8 Hours


Prerequisites


None

Certification

No

Class Type



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Description

This course covers the proper installation and commissioning of the Daikin Light Commercial Packaged and Split product lines including the DDC controller and additional accessories

Target Audience

Mechanical Contractors, Installation Contractors, Technicians, Mechanics

Duration

8 Hours


Prerequisites

None

Certification

No

Class Type




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Applied

Daikin MicroTech III/Rebel


Course Code: LI-MT3REB

Description	This course will cover the fundamentals of MicroTech III and Daikin Rebel; providing an introduction into the Daikin Applied MicroTech III controllers, and best practices for proper installation and service of Daikin Rebel High Efficiency rooftop units.
Target Audience	Design Build Mechanical Contractors, Installation Contractors, Technicians, and Mechanics
Duration	24 Hours
Prerequisites	None
Certification	No
Class Type	

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Daikin MicroTech 4/Rebel Applied

Course Code: LI-MT4REB

Description	This course will cover the fundamentals of Microtech 4 and Daikin Rebel Applied; providing an introduction into the Daikin Applied Microtech 4 controllers, and best practices for proper installation and service of Daikin Rebel Applied High Efficiency rooftop units.
Target Audience	Design Build Mechanical Contractors, Installation Contractors, Technicians, and Mechanics
Duration	24 Hours
Prerequisites	None
Certification	No
Class Type	

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VFD

Eaton DH1 VFD Certification Training

Course Code: LI-EDH1

Description	Commissioner Certification Training to become a certified Eaton DH1 VFD Commissioner. Course completion will also reward you with additional drive warranty coverage.
Target Audience	Mechanical Contractors, Installation Contractors, Technicians and Commissioning Agents
Duration	8 Hours
Prerequisites	None
Certification	Yes
Class Type	


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Applications

Daikin VRV® Local Design Workshops with WebXpress Guideline

Course Code: LI-VRVDW


Description	Course provides a comprehensive introduction to the VRV concept and an insight into the optimized design and application of VRV Systems including an overview of the features and benefits of the VRV system and its main components, Key factors that ensure optimized equipment design & selection, how to use the VRV WEB-Xpress selection tool, ad ‘Hands on’ project design and equipment selection.
Target Audience	Engineers, Architects, Design Build Mechanical Contractors, Installation Contractors
Duration	8 Hours
Prerequisites	Attendees should have a foundational understanding of Daikin VRV® technology and application. Attendees should have a general understanding of Daikin City and the WebXpress selection program is ideal but is not a requirement.
Certification	No
Class Type	

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Professional Development

Daikin Applied HVAC Systems Program

Course Code: LI-DHVAC23

Course Description	The Daikin HVAC Systems Program combines the knowledge and experience of Daikin’s Principles of HVAC, Principles of Air Systems Design, Principles of Refrigeration, Principles of Chiller Plant Design, and Building Systems classes into one comprehensive program that uses a blended learning approach. This blended learning approach utilizes both VIRTUAL INSTRUCTOR LEAD (VILT) and SELF-DIRECTED methods to provide flexibility to complete the program, within the allotted time frame. This program is geared towards those new to the industry, as well as intended to be a refresher series for those who already have some HVAC knowledge.
Target Audience	Engineers, Architects, Design Build Mechanical Contractors, Installation Contractors
Duration	Self-paced
Prerequisites	None
Certification	No
Class Type	

 BAL | WDC | PIT | RIC | TID | ROA

Price Industries Air Distribution Systems Program

Course Code: LI-PRICE23

Course Description	Price Industries and Havtech are partnering to offer courses and learning resources to broaden HVAC expertise, focused on air distribution principles and technology – topics include: Air Distribution Overview; Grilles, Registers, & Diffusers; Terminal Units. This program is geared towards those new to the industry, as well as intended to be a refresher series for those who already have some Air Distribution HVAC knowledge.
Target Audience	Engineers, Building Operators, Mechanical Contractors, Sheet Metal Contractors
Duration	Self-paced
Prerequisites	None
Certification	No
Class Type	

 BAL | WDC | PIT

