

BOLAND®

2026

PROFESSIONAL DEVELOPMENT CATALOG



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OUR COMMITMENT TO OUR CLIENTS

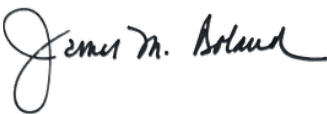
We aspire to provide the knowledge and skills needed for your success.

Our instructors are highly experienced, deeply knowledgeable, and passionate about our industry. Each course is thoughtfully selected to ensure you receive the most relevant, current, and impactful information available. As part of our commitment to sustainability, we appreciate you joining us in going green by using our digital textbooks.

Thank you for taking the initiative to expand your expertise and help advance our industry.

We look forward to hosting you and supporting your learning journey.

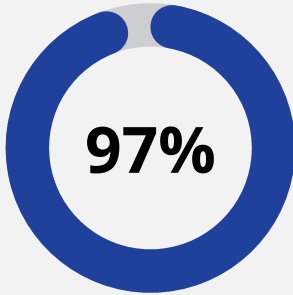
Sincerely,



Chief Executive Officer & Chairman



BENEFITS



Client Satisfaction Rate

EARN

Continuing Education Unit (CEU) hours after course completion. Boland is approved by the Maryland DLLR to offer CEU hours for licensing requirements.



LEARN

the most up-to-date training information and receive a downloadable class certificate for licensing or employers through our online training portal.



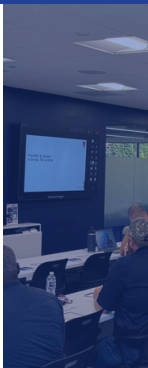
NETWORK

and make valuable connections with our industry experts and others within the HVAC industry in the DC Metropolitan area.



EXPERIENCE

our state-of-the-art VRF Training Center in Lanham, MD, and Louis J. Boland Professional Development Center in Gaithersburg, MD.



CLIENT TESTIMONIALS



[The instructor] did a really great job with this class, we reviewed a variety of wiring diagrams and had valuable discussion in the class.

Wonderful class that taught in-depth knowledge about the subject. Open and welcome to all questions with amazing answers and feedback.

This class was extremely informative and I left with a ton of information! Highly recommend the class!

This was an amazing class. I was genuinely excited to come back for day two. They take the time to make sure you truly understand and comprehend the material, and they make you feel confident.



REGISTRATION PROCESS

1

Visit boland.com/training or scan the QR code and select the desired course.

2

Enroll by selecting the "register" option and completing the registration form. We accept ACH/Check, Debit Card, or Credit Card (credit cards will incur a 2.5% surcharge).

3

Check your email inbox for a registration confirmation email. Contact training@boland.com for assistance or to ask questions regarding course offerings.



OUR CANCELLATION POLICY

*Due to high demand and limited seating for our 3-Day VRF City MULTI Essentials® course, cancellations must be received by email (training@boland.com) **no later than 15 business days** before the class date. **All other Professional Development cancellations** must be received by email (training@boland.com) **no later than 5 business days** before the class date.*

OUR TRAINING SPACES



Louis J. Boland Professional Development Center

30 West Watkins Mill Road,
Gaithersburg, MD 20878

With state-of-the-art technology, the Professional Development Center at Boland HQ fosters an environment of learning for up to 30 students.

VRF Training Center

4720 Boston Way Units J&K,
Lanham, MD 20706

The VRF Training Center provides a hands-on experience for our 3-Day VRF CITY MULTI® Essentials Course, featuring the latest VRF equipment to practice what is taught in the classroom.



OVERVIEW OF COURSE OFFERINGS

We offer Professional Development courses in the spring and fall semesters and offer 3-Day VRF CITY MULTI® Essentials year-round. **All classes include a complimentary breakfast and lunch.**

- 3-Day VRF CITY MULTI® Installation, Startup & Service Essentials
- **2-Day Basic HVAC**
- **Schematics & Wiring Diagrams**
- Variable-Air-Volume (VAV) & Direct Outdoor Air Terminal Units
- Variable Frequency Drive (VFD) Theory
- Self-Contained Units (SCU) & MJC
- Voyager® Precedent Rooftop Units
- **Symbio® 700**
- IntelliPak® Rooftop Units
- Horizon® Dedicated Outdoor Air Systems (DOAS)
- Split-Systems
- Tracer® Ensemble
- Tracer® SC & SC+®
- **Scroll Chillers (CGAM)**
- Series R™ Chillers (Helical Rotary)
- Centrifugal Chillers

Bolded classes are held twice a year.

COURSE DESCRIPTIONS

3-Day VRF CITY MULTI® Essentials

This three-day course provides an in-depth discussion of the techniques for properly installing, servicing, and troubleshooting CITY MULTI® systems. **A Windows-based laptop is required.**

Class Agenda:

- Installation and Diamond System Builder™ (DSB) software
- Start-up and Maintenance Tool software
- Service essentials

Recommended for: Service Managers, Service Technicians, Field Supervisors, Facility Management Staff, General Contractors, and Building Engineers

**2.1
CEU**

2-Day Basic HVAC

This two-day course provides an understanding of basic HVAC principles.

Class Agenda:

- Basic refrigeration cycle
- Principles of heat generation
- Transfer and rejection
- In-depth system components
- Types of heat exchangers
- System accessories and controls

Recommended for: General Contractors, Service Managers, Service Technicians, and Project Managers

**1.6
CEU**

Schematics & Wiring Diagrams

Troubleshoot and repair a variety of systems using schematics and wiring diagrams.

Class Agenda:

- Learn the latest ANSI diagrams (including ladders, logic, keys, and legends)
- Recognize components and circuits (including resistors, transistors, capacitors, transformers, coils, and relays)

Recommended for: Building Engineers, Service Managers, General Contractors, and Service Technicians

**0.8
CEU**

COURSE DESCRIPTIONS

VAV & Direct Outdoor Air Terminal Units

Understand Variable-Air-Volume (VAV) and the concept of air movement, including machine components, system types, and controls.

Class Agenda:

- Identify special tools and calibration techniques
- Check the system, perform system tests, and seasonal start-up procedures
- Apply service maintenance and understand how the systems operate

**0.8
CEU**

Recommended for: Service & Facility Managers, Service Technicians, Field Supervisors, General Contractors

Series R™ Chillers (Helical Rotary)

Explore the theory behind Series R™ Helical Rotary Air-Cooled Chiller system operations and learn how to troubleshoot.

Class Agenda:

- Identify the refrigerant and lubrication of the equipment
- Determine preventative maintenance tasks
- Navigate control panels (CLD, UCM, and CH530)
- Understand compressor operation and basic principles

**0.8
CEU**

Recommended for: Sales Managers, Service Managers, Project Managers, Service Engineers, and General Contractors

Self-Contained Units (SCU) & MJC

Learn about layout, troubleshooting, tips, tricks, and maintenance for self-contained and MJC units.

Class Agenda:

- Self-Contained Water-Cooled Unit (SWUA)
- Self-Contained Water-Cooled Unit (SWUD)
- Self-Contained Water-Cooled Scroll (SCWF) (signature series)
- Self-Contained Water-Cooled (General) SCWG (modular series)
- MJC modular Self-Contained Units (SCUs)

**0.8
CEU**

Recommended for: Building Engineers, Service Technicians, General Contractors, and anyone interested in SCUs

COURSE DESCRIPTIONS

Voyager Precedent® Rooftop Units

You will be exposed in detail to these units' mechanical, electrical, and control systems.

Class Agenda:

- Reliable controls and the various board functions
- Start-up, maintenance, and troubleshooting requirements
- Updates on Voyager® units, including fans, compressors, and refrigerant

Recommended for: Service Managers, Service Technicians, General Contractors, Field Supervisors, Facility Management Staff, and Foremen

**0.8
CEU**

Scroll Chillers (CGAM)

Learn about the CGAM Air-Cooled Scroll Chiller system interface, CH530 controls, common problems, and troubleshooting techniques.

Class Agenda:

- Learn about the Acend™ Air-Cooled Chiller models ACS and ACX: 140 TO 230 nominal tons
- Understand Air-Cooled Scroll Chillers model CGAM: 20 to 130 tons
- Determine the Variable Frequency Drive (VFD) configuration

Recommended for: Sales Managers, Service Managers, Project Managers, Foremen, and General Contractors

**0.8
CEU**

Symbio® 700

You will be able to learn the latest Symbio® 700 for Voyager® Precedent Rooftop Units. **Students are strongly encouraged to take the Voyager® course before enrolling in this course.**

Class Agenda:

- Learn the latest control and component locations
- Interpret Precedent® with Symbio 700 electrical wiring schematics
- Understand what the transducer does
- Determine unit options by performing a model number breakdown

Recommended for: Controls Technicians, Building Engineers, Field Supervisors, Project Managers, General Contractors, and Facility Managers

**0.8
CEU**

COURSE DESCRIPTIONS

Tracer® Ensemble®

Learn about daily Ensemble operations and tasks like user management, status, overrides, working with schedules, alarms, and data logging. **A laptop and access to your Tracer Ensemble site are highly recommended.**

Class Agenda:

- Learn user management (adding and removing users)
- Monitor and manipulate overrides
- Learn change schedules (holiday schedules and exception schedules)

Recommended for: Property and Portfolio managers, Building Engineers, and Service Technicians

**0.8
CEU**

Tracer® SC & Tracer SC+®

Learn about the latest improvements in building automation systems and building operations. **A laptop is highly recommended.**

Class Agenda:

- Assess the Tracer® SC & SC+® system
- Set up and route alarms
- Understand the general navigation
- Determine the variable air systems and chiller plant control applications

Recommended for: Controls Technicians, Building Engineers, Field Supervisors, Project Managers, General Contractors, and Facility Management Staff

**0.8
CEU**

Split-Systems

Learn Split-Systems installation requirements, controls, service, and refrigerant components.

Class Agenda:

- Determine the different models
- Learn how to install app guides
- Understand the refrigerant cycle and components
- Navigate the controls wiring diagrams
- Troubleshoot and maintenance

Recommended for: General Contractors, Service Technicians, Installers

**0.8
CEU**

COURSE DESCRIPTIONS

Centrifugal Chillers

Explore Centrifugal Chiller system components and water-cooled systems.

Class Agenda:

- Operate logic of the interface
- Identify problems that reduce damage to equipment

Recommended for: Sales Managers, Service Managers, Project Managers, Foremen, and General Contractors

**0.8
CEU**

Variable Frequency Drive (VFD) Theory

Understand variable frequency drive theory and VFD troubleshooting.

Class Agenda:

- Identify VFD components
- Troubleshoot VFD issues
- Determine control wiring and related issues

Recommended for: Building Engineers, HVAC Technicians, and Electricians

**0.8
CEU**

IntelliPak® Rooftop Units

Determine module identification location and use case moving through legacy IntelliPAK® and IntelliPAK® 3 Symbio®.

Class Agenda:

- Identify the differences between units supplied cooling & heating methods, and economizer decision-making
- Understand supplied air decision operations such as CV and SZVAV modes
- Determine unit HI navigation, introduction to test mode, setup, and set-point source options
- Navigate schematic diagrams, safety circuit termination, impact & fault notification, and testing

Recommended for: Service Managers, Service Technicians, Project Managers

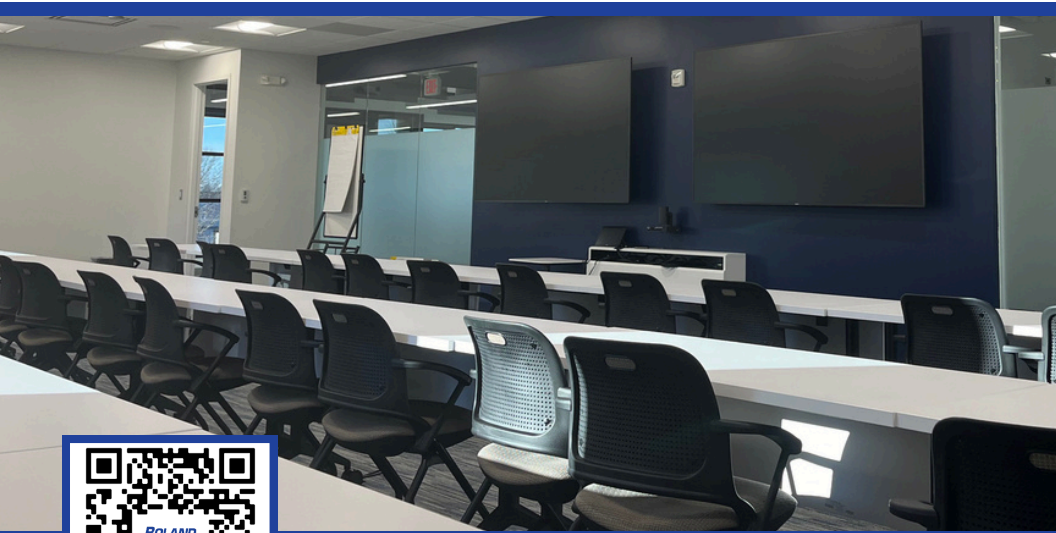
**0.8
CEU**

CUSTOM TRAINING

We offer custom training courses year-round at your site or our facility. Each course is tailored to your team's objectives and HVAC experience levels.

Your custom training fee includes the following:

- Customized digital course materials
- Subject matter expert(s) to instruct the course
- Certificates of completion with CEU hours



Scan the QR code for our custom training request form.

Boland is approved by the Maryland DLLR to offer CEU hours for licensing requirements.

MEET THE INSTRUCTORS



STEVE BARNES

Subject Matter Expert in Centrifugal Chillers

Started in the HVAC Industry in 1982



STEVE BEATON

Subject Matter Expert in Voyager® Precedent & Symbio® 700

Started in the HVAC Industry in 1989



MATT HINKLE

Subject Matter Expert in Tracer® Ensemble®

Started in the HVAC Industry in 2007



JOHN GARRISON

Subject Matter Expert in Split-Systems

Started in the HVAC Industry in 2003

MEET THE INSTRUCTORS



FRED HARRIS

Subject Matter Expert in Basic HVAC & IntelliPAK® Rooftop Units

Started in the HVAC Industry in 2002



BRAD HORNBEAK

Subject Matter Expert in Variable-Air-Volume (VAV) & Direct Outdoor Air Terminal Units (DOATU)

Started in the HVAC Industry in 1984



JOSH LAMBERT

Subject Matter Expert in Scroll Chillers

Started in the HVAC Industry in 2012



JASON LAWRENCE

Subject Matter Expert in VRF CITY MULTI® Installation, Startup & Service Essentials

Started in the HVAC Industry in 2000

MEET THE INSTRUCTORS



ANDREW MISH

Subject Matter Expert in Self-Contained Units (SCU) & MJC

Started in the HVAC Industry in 2014



FRANCISCO MIYARES

Subject Matter Expert in Horizon® Dedicated Outdoor Air System (DOAS)

Started in the HVAC Industry in 2012



NICK SACKETT

Subject Matter Expert in Tracer® Ensemble®

Started in the HVAC Industry in 2021



SAM MURPHY

Subject Matter Expert in Self-Contained Units (SCU) & MJC

Started in the HVAC Industry in 2002

MEET THE INSTRUCTORS



PAUL SINGH

Subject Matter Expert in Series R™ Chillers
(Helical Rotary)

Started in the HVAC Industry in 2003



TIM TODD

Subject Matter Expert in Variable Frequency
Drive (VFD) Theory

Started in the HVAC Industry in 1985

TRAINING ACCESS PORTAL

24 hours after your class ends, you will receive an email from **Boland Training (smtpauth@boland.com)** with steps to access your certificate.

1

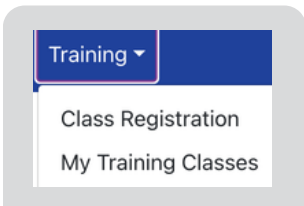
Complete the Professional Development Survey.

2

Visit clientportal.boland.com/training and log-in/sign-up using the same email address used to register for the course.

3

Go to the **Training** tab, click **My Training Classes**, and scroll down to **Trainings I've Attended**. Find the class you attended and hit **Download** to receive your certificate.





BOLAND®