



**Training Itinerary**  
**Vitodens 100 B1HA/B1KA - Installation & Service**  
**October 25th, 2018**

8:45 AM Arrival to Viessmann Headquarters  
45 Access Road  
Warwick, RI 02886

9:00 AM - 9:15 AM Introduction to Viessmann

9:15 AM -10:00 AM Vitodens 100 - Overview & Features

**Learning Objectives:**

1. Explain the features & benefits of the B1HA
2. Explain the features & benefits of the B1KA
3. Describe the qualities of the INox Radial Heat Exchanger and why it sets Viessmann boilers apart from the rest
4. Identify the difference between a B1HA & B1KA and what helps determine when each model should be used

10:00 AM - 10:45 AM Vitodens 100 - Venting

**Learning Objectives:**

1. Explain the 4 venting options
2. Explain how to calculate the equivalent lengths for the various venting options
3. Identify the different terminations and installation considerations
4. Describe specific installation tips to avoid potential problems

10:45 AM - 11:30 AM Vitodens 100 - Gas Piping & Burner

**Learning Objectives:**

1. List the minimum and maximum requirements for natural gas and propane
2. Explain the conversion procedure from natural gas to propane [NG to LPG]
3. List the components of the Viessmann Burner Assembly
4. Explain the procedures to perform an Emissions Test and the acceptable results

11:30AM - 12:15PM Lunch will be served

12:15 PM - 1:15 PM Piping & Wiring

**Piping Learning Objectives:**

1. List the benefits of the 4 pipe system
2. Describe the near boiler hydronic piping for B1HA/KA boilers, including pipe size and possible use of a low loss header

3. Describe the benefits of a low loss header
4. Contrast the difference between piping an indirect water heater off the bottom of the boiler versus installed in the system loop
5. Describe how the B1KA should be piped for domestic hot water including the use of a thermostatic mixing valve
6. Explain the requirements for a condensate neutralizer and how it is piped

**Wiring Learning Objectives:**

1. Describe the two methods of controlling an indirect water heater
2. Explain the minimum wiring requirements for the Vitodens B1HA & B1KA
3. Contrast the wiring in for outdoor reset or constant temperature

1:15 PM - 1:30 PM BREAK

1:30 PM - 2:15 PM Control Interface & Basic Programming

**Learning Objectives:**

1. Identify the display symbols and their functions
2. Identify the buttons and their functions
3. Describe the process of selecting the proper heating curve
3. List the programming steps
4. Identify the five most common configuration adjustments

2:15 PM - 3:45 PM Hands On Training  
> Installation, Start Up, Service & Troubleshooting

3:45 PM - 4:15 PM End of Training Q&A  
+ Building Tour if time permits

4:15 PM Training Concludes  
**\*Completion of Training Certificates Distributed**