

Introduction To Viessmann

Prerequisite:	None
Duration:	1 Day
Course outline	Overview of the Viessmann North American products.
Course description:	<p>If you are new to Viessmann or haven't kept up with the next generation of Viessmann technology, this seminar will be of benefit to you.</p> <p>From the Vitorond 100 oil fired cast iron boiler to the Vitocrossal 300 CU3A high mass condensing boiler we will go over all residential products.</p> <p>From the Vitorond 200 gas or oil fired cast iron boiler to the Vitocrossal 200 and 300 condensing boilers we will introduce you to the world of Viessmann commercial products.</p> <p>We will talk about all of our renewable technologies like biomass and solar. DHW through tanks or on demand modules for boilers or solar are an efficient way to heat hot water and we will show you how we put those technologies together.</p> <p>Then we tie it all together with our Viessmann control platform so everything works as a team.</p>



Vitosol, Application And Installation

- Prerequisite:** None, recommended prerequisite – Vi101
- Duration:** 1 Day
- Course outline** This 1-day seminar provides the basic concepts and ideas to understand and install Viessmann Solar Thermal Technology.
- Course description:** Vi102 is designed to provide the foundations of Solar Thermal Technology. If heating water with the sun is a market you want to capture, you need to attend this seminar.
- What applications make sense for Solar Thermal system?
 - Is it better to use Flat Plate or Vacuum Tube collectors?
 - How many collectors are required?
 - How and where can I mount the collectors?
 - How do I size the piping and pump?
 - What other system components are required?
 - How do I avoid over heating?
 - **Introduction of the NEW Vitosol DHW Solar Pack**

Get the answer to those and other questions from a company who has been in the Solar Thermal business since the mid 1970's.

We will discuss the do's and don'ts of system design and installation for the Viessmann Solar Thermal product line.

At the completion of this seminar you will be equipped to sell and install residential and small commercial Viessmann Solar Thermal System.



Vitosol, Design And Simulation

Prerequisite: Vi 102 or previous Vi 111

Duration: 1 Day

Course outline This 1-day seminar deals with design sizing and control for residential and commercial Solar Systems. We will also examine simulation software.

Course description: If you're the go to guy for your company's Solar system designs:

- You want to know more about the programming and set up of larger commercial and more complex residential solar applications.
- You want to better understand how to use sizing and simulation software to improve the efficiency of your designs.
- You need to attend this seminar.
- Some of the topics covered will be:
- Larger scale systems for commercial DHW applications and heating for indoor pools.
- Multi- load residential systems that combine DHW heating with space heating supplement and / or pool heating.
- We will provide an understanding of the Solar Thermal control options and programming so you can squeeze the most out of this technology.
- We will introduce you to solar simulation software.

This seminar will reveal the concepts needed to take your Solar Thermal designs to the next level.





Vitodens 200 Series Boilers, Application And Installation

Vitocrossal 300 CU3A will also be covered in this seminar

Prerequisite: None, recommended prerequisite – Vi101

Duration: 1 Day

Course outline: Whether you have been in the hydronic business for years or are new to the industry, to get the most efficiency out of your installations, you need to know the differences between high temperature designs, like cast iron boilers and the condensing technology used with Vitodens and Vitocrossal series boilers.

Course description: This seminar will cover the differences between non-condensing and condensing heating systems. You will learn options for modifying existing system to get the best efficiency possible when you upgrade to a Vitodens 200 or Vitocrossal 300 series, premium condensing boiler. Mixing valves, Pumps, Delta T's, Primary secondary piping designs, and venting, will all be covered. We will cover in detail the Vitodens 222F B2TB boiler with on board DHW production and storage.

When is it best to use the Vitodens low mass boiler or the Vitocrossal high mass boiler in your systems? We will go over the differences in the two boiler designs.

The goal is to make your Vitodens 200 series or Vitocrossal 300 series condensing boiler projects as efficient as possible by looking at the whole picture, and making logical choices.

Because it's not just about boiler efficiency!



Commercial Cast Iron Boiler, Application And Installation

Prerequisite: None, recommended prerequisite – Vi101

Duration: 1 Day

Course outline: This seminar will address how Viessmann looks at higher temperature non condensing technology and why we do things differently than some other high temperature, high mass, boiler manufacturers.

Course description: Cast iron boilers still have a firm place in the hydronic heating world. This seminar will address high mass cast iron boilers and steady state efficiency. We will look at control strategies for cast iron systems including return water protection and distribution for cast iron boilers.

Some of the questions we will address:

- How do I protect my boiler from condensing?
- What is return water protection and how is it achieved?
- Can I combine condensing and non-condensing boilers in the same plant?
- What are my venting choices?
- How do I know the correct burner to choose?

These and other topics will be discussed to give you a clear understanding of how cast iron boilers are and should be applied in a modern heating world.



UPDATED Commercial Condensing Boiler, Application And Installation

Prerequisite:	None, recommended prerequisite – Vi101
Duration:	1 Day
Course outline	Whether you have been in the hydronic business for years or are new to the industry, you need to know the differences between high temperature designs, like cast iron and the Vitocrossal condensing technology to get the most efficiency out of your project.
Course description:	<p>This seminar will cover the differences between non-condensing and condensing heating systems for commercial applications. You will learn options for modifying existing system to get the best efficiency possible when you specify from new or upgrade to the Vitocrossal condensing boilers. Mixing valves, pumps, Delta T's, Primary secondary and hybrid piping designs will all be covered. We will discuss how control strategies need to be reexamined for the condensing boiler. You will learn about the NEW Vitocrossal 300 CA3 up to 6.0 mmbh & Vitocrossal 200 CM2 boilers, both using Viessmann Premix burners. See how quiet, efficient and easy this boiler is and how in some cases it can be a replacement for cast iron technology. See how the CM2's control options with touch screen multi-application control can reduce the work in setting up a multi boiler cascaded system. Take another step up to the CA3 with multiple burners and heat exchanger assemblies all within the one package including onboard cascade control. It's a multiple boiler plant in one box. You will be able to see how the CA3 can switch between NG and LPG with the flip of a switch. We will also look at how multiple wall hung Vitodens 200 boilers can be a good option for projects up to 4.2 million BTUH systems.</p> <p>The goal is to make your commercial condensing boiler project as efficient as possible by looking at the whole picture, and making logical choices.</p>





NEW! Vitoligno 300C Wood Pellet Boiler

Prerequisite: None, recommended prerequisite – Vi101

Duration: 1 Day

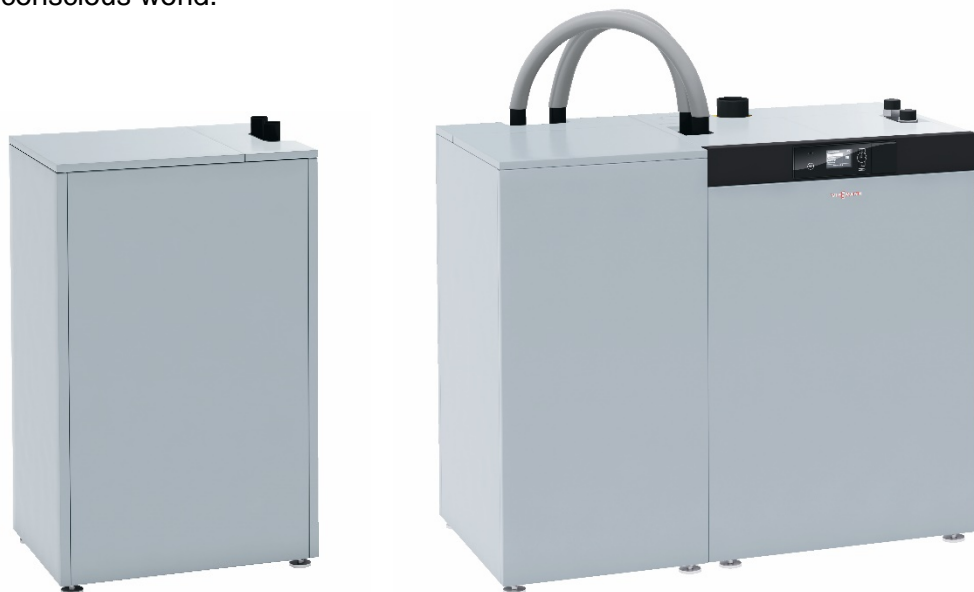
Course outline: This seminar will address how Viessmann looks at heating with wood. Specifically for the New Vitoligno 300C Wood Pellet Boiler.

Course description: Heating with wood is the new, old technology. CO₂ Neutral and renewable, this is not your old smoker technology. We will look at the technology of gasification of wood and the modern ways wood can become the primary source of clean, renewable heat for any building. As the world moves away from fossil fuels, wood is an efficient alternative for new or retrofit applications.

Some of the questions we will address:

- Does burning wood add to the greenhouse effect?
- Is wood truly a renewable resource?
- What can I burn?
- How can I heat my building with wood?
- Is the system automatic and safe?
- How does the technology work?
- How much work is a wood boiler to maintain?

These and other topics will be discussed to give you a clear understanding of how Viessmann wood boilers are and should be applied in an environmentally conscious world.





UPDATED Viessmann Controls

Prerequisite: Vi 101, Vi203, Vi205, Vi206 or hands on experience in the HVAC service field.

Duration: 1 Day In Langley BC, 2 Days in Waterloo ON.

Course outline Whether you have been in the hydronic business for years or are new to the industry, you need to know the new control strategies that optimize the efficiency of your boiler plant. This seminar will cover all of the cutting edge advancements in the Viessmann Vitotronic family of controls.

Course description: This seminar will cover the various flexible yet similar platform options for different boiler models. We will engage you with the knowledge needed to make these devices operate at their intended optimal levels. We will cover coding and the power of the ability to customize features when needed and use the default settings when appropriate. It will be clear that BMS integration is easy with our Vitogate 300 gateway. For those more challenging projects we will cover how a custom panel relieves the stress of integrating many of the plants needs into a single control panel.

Note: In Waterloo this seminar is separated into residential (Vi210R), and Commercial (Vi210C) sections. There are some overlaps in the curriculum of these two days. Each day can be attended independent of the other.



Introduction To Viessmann Airflow*PLUS*****

Prerequisite:	None
Duration:	1 Day
Course outline	This 1-day seminar deals with the NEW Viessmann Airflow<i>PLUS</i> air handler.
Course description:	If you work with forced air heating or want to expand your hydronics business into hydronic forced air systems, this seminar will give you what you need to use the NEW Viessmann Airflow<i>PLUS</i> air handler with Viessmann boilers.

Topics covered will be:

- The features, benefits and specification of the Viessmann Airflow***PLUS***.
- How to size the air handler for heating and cooling applications.
- What configurations does the Viessmann Airflow***PLUS*** support.
- What service is required to keep the Viessmann Airflow***PLUS*** running like new.
- What boilers and controls is the Viessmann Airflow***PLUS*** compatible with.
- What can you achieve with the Viessmann Airflow***PLUS*** and a Viessmann boiler combination that cannot be achieved with a furnace.
- How hydronic forced air heating using Viessmann can provide more flexibility and potentially more energy savings than a furnace alone



Vitodens 200 Series, Service And Maintenance

Vitocrossal 300 CU3A will also be covered in this seminar

Prerequisite: Vi 101, Vi203, or hands on experience in the HVAC service field.

Duration: 1 Day

Course outline Whether you have been in the hydronic business for years or are new to the industry, you need to know the differences between high temperature designs, like cast iron and the Vitodens 200 or Vitocrossal300 condensing technology to get the most efficiency out of your project.

Course description:

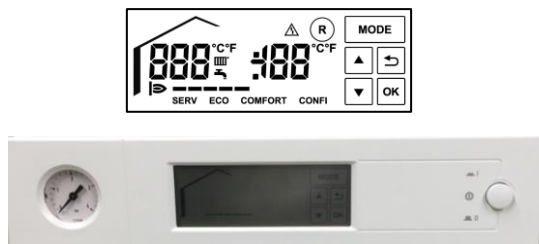
The heating system is one of your customer's largest investments. It justifies spending the time to maintain it over the years it's expected too perform. It's your job as your customer's technical expert to do thing right. That's what this seminar is all about, giving you the skills and the knowledge to keep your customers investment performing like it should. We include service and maintenance required to maintain the Vitodens 200 series and Vitocrossal 300 CU3A boilers, allowing it to operate at peak efficiency for many years. We will discuss disassembly and reassembly, as well as testing and adjustments. We will cover the correct cleaning methods and the tools needed to perform all of the maintenance normally required. Because of the Viessmann service friendly design and the material we will cover, you will go away from this seminar realizing it's easier than you thought.





UPDATED Vitodens 100 Series Boilers, Application, Installation, Service And Maintenance

- Prerequisite:** None, recommended prerequisite – Vi101
- Duration:** 1 Day
- Course outline** Everything you'll need to know to select, install and service our, **NEW Vitodens 100 B1HA & B1KA boilers.**
- Course description:** This seminar will cover the differences between non-condensing and condensing heating systems. You will learn options for modifying existing system to get the best efficiency possible when you upgrade to a Vitodens 100 condensing boiler. Pumps, Delta T's, Primary secondary piping designs, and venting, will all be covered.
- We will go over these two new models in detail describing the features and operations of both the B1HA heating with DHW through a Vitocell indirect tank model and the B1KA heating with built in On Demand DHW functions model. Both of these boiler incorporate our new simple and powerful Vitodens 100 touch screen control and we will cover all of the new and exciting features inside this improved control platform.
- We include service and maintenance required to maintain the Vitodens 100 boiler, allowing it to operate at peak efficiency for many years. We will discuss disassembly and reassembly, as well as testing and adjustments. We will cover the correct cleaning methods and the tools needed to perform all of the maintenance normally required. Because of the Viessmann service friendly design and the material we will cover, you will go away from this seminar realizing it's easier than you thought.



UPDATED Commercial Boiler, Service And Maintenance

- Prerequisite:** Vi205 or Vi206, or experience installing Viessmann commercial boilers.
- Duration:** 1 Day.
- Course outline** You want to keep your Vitocrossal 200 CM2, Vitocrossal 300 CT3, **NEW Vitocrossal 300 CA3** and Vitorond 200 boilers running like new. With a focus on preventative maintenance this seminar will give you the knowledge to do that.
- Course description:** This seminar will cover the service and maintenance required to maintain our commercial boilers, allowing them to operate at peak efficiency for many years. We will discuss disassembly and reassembly, as well as testing and adjustments. We will cover the correct cleaning methods and the tools needed to perform all of the maintenance normally required. Because of the Viessmann service friendly design and the material we will cover, you will go away from this seminar realizing it's easier than you thought.

