



# 2021 NATE/FAD VIRTUAL TRAINING SCHEDULE



Date	Instructor	Class	Description
Feb 16 7-9 AM (PST)	Kevin Mesneak	<a href="#">40MBAA / Hybrid Combos</a> 8507-0004	How the 24v interface works, proper sizing and application of these combinations, installation, wiring, set up and start up. How to set up for dual fuel operation, lock out heat strips and 6 fundamental steps for a proper system installation.
Mar 2 7-9 AM (PST)	Kevin Mesneak	<a href="#">Ductless Sales &amp; Application</a> 8507-0004	How to size and apply equipment for a successful installation. We will go into proper applications for each type of indoor unit. How to use product data to select the correct size unit for the space.
Apr 6 7-9 AM (PST)	Paul Weiss	<a href="#">Dealer/Customer Relations</a> 8507-0016	Discuss the relationship between the Carrier/Bryant Dealer and their customer. How to present the equipment to the homeowner so that they understand what they are putting into their home and what to expect when the equipment is operating. How to explain to the homeowner how the equipment is supposed to operate and what they need to do to assure long life of their equipment. When they have trouble with the equipment how to guide them through the resolution.
May 18 5-7 PM (PST)	Gregg Arlt	<a href="#">Fan Coils &amp; Heat Pumps</a> 8507-0011	A great match, these were made for each other. Product Overview, System Installation, set up and start up, Troubleshooting fan coils and heat pumps, Airflow, static pressure, condensate management, basic duct design, Electrical – circuit boards, controls, safeties, motors. Refrigeration circuit – Compressors, metering devices, reversing valves, accumulators, defrost.
Jun 1 7-9 AM (PST)	Mark Weber	<a href="#">Residential Zoning</a> 8507-0009	When installing a new furnace or air conditioning system, a zoning system is a supplemental system that improves the efficiency and performance of the HVAC system. Zoning systems split the home into multiple zones that can be conditioned independently of one another, providing better control over comfort and energy consumption throughout the structure. In this class we will use a real-life example and explore design options and considerations. We will look at how to properly select equipment, the equipment needed and how to put it all together into an efficient and comfortable system.
Jul 6 7-9 AM (PST)	Paul Weiss	<a href="#">25VNA4 Troubleshooting</a> 8507-0002	Cover the troubleshooting procedures for the new inverter product. Software upgrades for UI and OD unit boards and accessing the OD unit through the Bluetooth Module. What do all the lights on the inverter and the PCM boards mean and how do they help you to diagnose the problem. How to read the fault codes and what they mean and how to resolve the issue.
Aug 3 7-9 AM (PST)	Dave Frederick	<a href="#">Infinity/Evolution Basic</a> 8507-0009	Control concept, system components, installation of components, system start up and operation, system troubleshooting.
Sep 7 7-9 AM (PST)	Paul Weiss	<a href="#">Airflow</a> 8507-0006	Why does my furnace trip on high limit? Why is my AC coil a ball of ice? Why are certain rooms colder or hotter than others? Learn about duct fittings and equivalent length and turbulence in a air duct system and what it does to system performance. Is your customer really getting the high efficiency you are selling them?
Oct 5 5-7 PM (PST)	Gregg Arlt	<a href="#">ECM Motors</a> 8507-0005	The new normal. Overview of ECM motors, why they are so great. Installation, set up and start up of ECM motors. Troubleshooting ECM motors.
Nov 2 7-9 AM (PST)	Mark Weber	<a href="#">Heat Loss/Gain Calculations</a> 8507-0017	The beginning of any HVAC system design is knowing how heat and/or cooling is needed to condition the space. And this begins with heat loss/gain calculations. We will start with the major components that make up the structure and how heat travels through them. We will look at how the site can affect heat gain and loss and how quality of construction affects air infiltration and exfiltration. We will start with the old school methods of pencil and paper and then with some of the software available.
Dec 7 7-9 AM (PST)	Dave Frederick	<a href="#">Infinity/Evolution Advanced</a> 8507-0009	Control concept, system components, installation of components, system start up and operation, system troubleshooting, zoning.

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**Classes will be ZOOM webinar meetings.**

All classes qualify for 2 Distributor FAD hours, as well as 2 CE's for NATE Certification.

**NATE ID # MUST BE PROVIDED AT TIME OF CLASS FOR NATE CREDIT TO BE APPLIED TOWARD RECERTIFICATION.**

Classes are free to FAD dealers. A \$25 registration fee will be billed to dealers who want NATE credit for the class. NATE recertification fee is not included. NATE requires a minimum of 16 hours of training to maintain the certification after the initial certification testing. If a tech has completed the necessary training hours, the Core/Specialty tests are waived. The tech will only have to show the hours of training they have taken and pay a small recertification fee. Taking a class outside of NATE certified specialty may result in fewer applied credit hours (or no credit). See class descriptions for specialties included in course credit. Course schedule is subject to change without notice. Cancellations may occur if minimum participant requirement is not met within one week of the class date. Class cancellations can be avoided with early registrations.