

FALL 2010 WALES DARBY LEARNING CENTER CURRICULUM SNEAK PREVIEW:

All class tuition is \$35.00 / person unless otherwise noted.
All class are held at the WDLC in Warren NJ.
Dinner is served at 5PM
Classes start at 5:30PM - 8:30PM
Please call Bryan Nye at 632-930-9966 to reserve your spots.

Tuesday, October 12 & Wednesday, December 8:

Introduction to Radiant Floor Heat

This class is designed for the new and / or novice RFH installer so that they will feel comfortable taking on their first radiant install. The class covers the selection and procedures of install types; slab, light weight concrete, joist, (with and without emission plates), and pre-engineered subfloor panels, (QuikTrac). The class will include a general discussion of control strategies as well, from ultra simple such as a water heater or condensing boiler as the heat source to the ultra sophisticated Climate Control Module which centralizes the power and control for pumps, valves, actuators, thermostats, snow melt and more.

Instructor: Gerry Wagner

Wednesday, October 13 & Wednesday, October 20

Tuesday, November 30 & Wednesday, December 1

Hydronic Heating System Wiring

Learn wiring techniques for common hydronic controls. Low water cutoffs, switching relays, zone valves and zone valve controls will be covered. Common boiler controls will be reviewed as well as the integration of new controls into existing hydronic systems. This class will be limited to twenty students as attendees will have an opportunity to perform "hands on" tasks wiring actual working controls. This class is a must for all who install code required controls such as low water cutoffs as well as those who service and troubleshoot.

Instructor: Gerry Wagner

LIMITED SEATING

Tuesday, October 26

Introduction to Thermal Solar Systems, (TSS)

Join us for an introduction to solar thermal heating technology. Interest in solar heating is on the rise as fuel costs soar! Come learn the capabilities of modern solar equipment and how they can be applied. This class will cover solar fundamentals, applications, site evaluation, design considerations, system layouts and system performance assessment. SOLAR IS BACK! Don't miss out on this unique business opportunity. New York and New Jersey are among the most progressive states offering tax credits to homeowners who install solar systems.....bring your customers into the world of "green" technology! This class will be a *real* discussion of solar capabilities and how it can be practically applied for supplemental domestic hot water and space heating.

Instructor: Gerry Wagner

Tuesday, December 14

Advanced Thermal Solar Systems, (TSS)

The intro class on 10/26 is a prerequisite to the advanced class. This class will detail the racking systems available and required for different mounting locations and positions. Controls will be discussed and actually programmed in the class. Attendees will have the opportunity to work with actual collectors from the AO Smith company and Viessmann. A to Z installation procedures will be covered in detail so the attendee can feel comfortable starting his / her first TSS job the next morning!

Instructor: Gerry Wagner

Assistant Instructor: Frank Proske / AO Smith

Tuesday, November 2 & Tuesday, December 7

Mini-Split Air Conditioning / Heating: Installation & Service

Learn how the rest of the world conditions their environments with mini split air conditioning systems. North America is virtually the only area of the world still using residential ducted HVAC systems. Mini splits are achieving 26 SEER efficiency ratings and quad, tri and dual systems bring efficiency with the comfort of zoning. This class consists of a basic review of the refrigeration cycle as it pertains to mini splits. A discussion of inverter technology and how it applies to mini split condenser units will be reviewed. Installation of both the indoor and outdoor units will be covered in detail. Service and troubleshooting of these systems will be reviewed. This is a unique opportunity to be exposed to technology that some believe will be the preferred way to condition our homes in the very near future!

Instructor: Gerry Wagner

NO CHARGE

Tuesday, November 9

High Efficiency Domestic Water Heating: Residential & Commercial

Water heaters ain't what they use to be.....and that's a good thing! This class will detail the new technology available for efficient domestic water heating for both residential and commercial applications. Many new large scale homes are requiring substantial domestic hot water loads with the advent of jetted tubs, home spas and multi-head showers. These homes are pushing the limits of standard large volume water heaters and you need to offer your builder and / or homeowner new, more efficient equipment to stay ahead of rising energy costs! This class will offer you a basic review of domestic hot water load calculations as well as how best to choose equipment to meet those needs. Condensing, Hybrid, Solar and heat Pump water heater technology will be discussed. Efficient domestic water heating has never been more important as it is right now.....don't miss out on this unique opportunity to learn about state of the art equipment to meet the needs of your residential and commercial customers!

Instructor: Gerry Wagner

Assistant Instructor: John Myers

Wednesday, November 10

Introduction to High Velocity Air Conditioning & Heating

This is **NOT** your father's SDHV, (Small Duct High Velocity), air conditioning! Learn about the latest fan coils and ACM, (Air Control Module), that bring increased sophistication and precise air management to HV systems. This class will cover install practices from A to Z as well as system sizing, duct layout, register, (puck), placement, plenum choices, electronic air filter options and more! SDHV technology has advanced dramatically over the past few years so this class is a must for the novice installer as well as the seasoned SDHV installer.

instructor: Gerry Wagner

NO CHARGE

Tuesday, October 5 & Tuesday, November 16

Hydronic Heating System troubleshooting: Mechanical & Electrical

Review system components including circulators, expansion tanks, pressure reducing valves, etc. and their function within a hydronic system. Learn troubleshooting techniques for system components - both mechanical and electrical. A complete review of zone valve, transformer and switching relay wiring will be detailed. This seminar is perfect for the new as well as seasoned mechanic.

Instructor: Gerry Wagner

Wednesday, November 17

Steroids for Heating Systems -or- How To Increase The Performance Of Your Heating System

Why should major league baseball players be the only ones to bulk up? You can give your hydronic heating system performance enhancing components to increase efficiency and over all comfort. This class will be a review of outdoor reset temperature controls, variable speed circulators, motorized three way mixing valves, injection pump mixing stations, air elimination components and other performance enhancing 'bolt-on" type controls and accessories. The class will also give a basic review of proper circulator sizing. The cost of fuel demands that we squeeze everything we can out of our heating systems and this class will help you customize and accessorize your system to achieve optimum efficiency and performance.....and these steroids are not only legal, they won't give you any adverse side effects.

Instructor: Gerry Wagner

NO CHARGE

Thursday, October 21

TracPipe Corrugated Stainless Steel Tubing, (CSST), gas pipe certification

NO DINNER

NO CHARGE

1 1/2 HOUR

Thursday, November 11

AquaPex Flexible Plumbing

NO DINNER

NO CHARGE

1 1/2 HOUR

Gerry Wagner

Product & Application Trainer

The Wales Darby Learning Center

www.WalesDarbyLearningCenter.com

www.energyPRO.net

NJBA Green Building Task Force member

732-907-1763

Wales Darby, Inc. is a member of:

Hudson Valley High Efficiency Heating & Cooling Contractors Association

Builders and Remodelers Association of Northern New Jersey

Shore Builders Association of Central New Jersey

Community Builders & Remodelers Association of New Jersey

Green Mechanical Council