



Continuing Education Schedule and Courses for 2009

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Continuing Education Schedule

Date	Course Title	Location(s)	Contact	Size	Time
9/8/2009	Using the Sporlan Selection Software	TO BE ANNOUNCED	Columbus (706-653-1731)	25	8:00AM - 12:00PM
9/15/2009	Residential Cooling Systems Operations & Refrigerant Cycle Analysis	B&A Warehouse 1531 1st ave. south B'ham , AL. 35233	Birmingham (205-251-8203)	30	8:00AM - 4:00PM
9/17/2009	Residential Cooling Systems Operations & Refrigerant Cycle Analysis	Montgomery Branch Training Room	Montgomery (334-265-2980)	25	8:00AM - 4:00PM
9/22/2009	Split System A/C Electrical Characteristics & Troubleshooting	buffalo rock conference room	Dothan (334-794-4325)	30	8:00AM - 4:00PM
9/24/2009	Residential Cooling Systems Operations & Refrigerant Cycle Analysis	Southern Union College 1701 Lafayette Pkwy Opelika,Al 36801 Room 104 Administration Building Gold Dome	Opelika (334-741-1008)	30	8:00AM - 4:00PM
10/6/2009	Residential Heat Pump Systems Operations and Diagnostics	Snead State Comm. College Tom Bevill Center Rm#102S Boaz,Al 35957	Albertville (256-878-0381)	35	8:00AM - 4:00PM
10/8/2009	Residential Heat Pump Systems Operations and Diagnostics	Motel 6- Conference Room 1600 Rainbow Drive Gadsden, Al. 35901	Gadsden (256-547-6958)	40	8:00AM - 4:00PM
10/16/2009	Customer Relations	Bevill Center Gadsden State Community College George Wallace Drive East Gadsden, Al. 35903	Gadsden (256-547-6958)	25	8:00AM - 12:00PM
10/20/2009	Residential Cooling Systems Operations & Refrigerant Cycle Analysis	Gadsden State Community College East Broad Campus East Gadsden, Al. 35903	Gadsden (256-547-6958)	50	8:00AM - 4:00PM
11/3/2009	Residential Heat Pump Systems Operations and Diagnostics	Montgomery Branch Training Room	Montgomery (334-265-2980)	25	8:00AM - 4:00PM
11/10/2009	Residential Heat Pump Systems Operations and Diagnostics	B&A Warehouse 1531 1st ave. South B'ham , Al. 35233	Birmingham (205-251-8203)	30	8:00AM - 4:00PM
11/17/2009	Split System A/C Electrical Characteristics & Troubleshooting	Decatur Utilities Main Office 1002 Central Parkway Decatur Al	Decatur (256-353-7712)	30	8:00AM - 4:00PM
11/19/2009	Residential Cooling Systems Operations & Refrigerant Cycle Analysis	SHEFFIELD STORE CONFERENCE ROOM	Sheffield (256-381-2280)	20	8:00AM - 4:00PM
12/8/2009	90 Plus Gas Furnaces	B&A Warehouse 1531 1st Ave South Birmingham , AL. 35233	Birmingham (205-251-8203)	30	8:00AM - 4:00PM

Continuing Education Courses

Course Title	Course Description	Credits	Cost	Provider
90 Plus Gas Furnaces	A computerized interactive study of standard 90 plus gas furnaces, focusing on proper installation, their operation and troubleshooting diagnostics.	8	\$125	Rheem
A/C System & Capacity	Learn to balance indoor air flow, measure sensible heat, latent heat,	4	\$50	GSCC

Analysis	& heat removal.			
Airflow Characteristics & Diagnostics	This Rheem course delves into the basics of air movement, air moving devices, and airflow measurements. Technicians learn how to identify airflow problems, as well as how to use temperature rise, air velocities and area to calculate airflow.	8	\$125	Rheem
Basic Computer Skills Training for HVAC Contractors	This course is designed to impart basic computer skills to HVAC contractors. This in turn will inform the contractors of the benefits of conducting daily operations via a basic computer system. In addition, this course will provide class participants the opportunity to gain hands-on computer experience.	4	\$50	GSCC
Basic Management Concepts for HVAC Contractors	This course will cover legal and business requirements, personnel management, risk management, and business failures.	4	\$50	GSCC
Blood Borne Pathogens	This course provides vital information regarding the prevention of contracting viruses and infections through blood borne pathogens, thereby providing a safe workplace for employees.	4	\$50	GSCC
Business Law Assets and Liabilities	The participants will learn their rights and liabilities as they relate to written and oral agreements, legality, organization types, tort liability, etc.	4	\$50	GSCC
Cardiopulmonary Resuscitation (CPR)	This course will cover basic mechanics of respiration; inadequate breathing; maintaining open air way; rescue breathing for a victim in respiratory arrest; and management of an obstructive airway.	4	\$50	GSCC
Cleaning Up A Compressor Burnout	Course Description (Use Attachments if Necessary): This course the proper procedures to follow for cleaning up a refrigeration or A/C system after you have a compressor burn-out. Anticipated Outcome: The contractor will lean informative and practical information to help them get it right the first time in order to save time and money.	2	\$50	Sporlan
Coil Cleaning	<ul style="list-style-type: none"> Coil Cleaning: The Clean Coil Program is a comprehensive seminar dedicated to the safe and proper procedure to clean evaporator and condenser coils, window units, and electronic air filters. The program will help the contractor determine which cleaning method should be utilized for a particular job based on the type and condition of the unit. The contractor will also learn the benefits of having clean coils and become familiar with the latest coil cleaning techniques. (Approved for CEC Alabama and Georgia 2 hour) 	2	\$50	Nu-Calgon
Comfort Control System	This program explores the latest technology in compressor control and protection. Learn how the control utilizes a microprocessor for active protection and sealed contacts to increase compressor reliability.	3	\$55	Rheem
Commercial Rooftop Equipment Operation and Diagnostics	A computerized interactive study of commercial rooftop equipment, focusing on the operation and troubleshooting diagnostics.	8	\$125	Rheem
Compressor Failures - A Systems Approach	Course Description (Use Attachments if Necessary): Understanding mechanical compressor failures, how to diagnose them, and how to prevent repeat failures by looking at the system components and fixing the problem. Anticipated Outcome: Knowing how to diagnose a compressor failure and then how to address the system problem that lead to the failure. We hope to prevent repeat failures.	4	\$50	Sporlan
Controlling System Contamination	Course Description (Use Attachments if Necessary): Understanding air conditioning system contamination, their origin, cause, prevention, and clean-up. The course also discusses proper installation of system clean-up components. Anticipated Outcome: We expect the attendees to gain practical knowledge on how to prevent and correct HVAC system contamination.	4	\$50	Sporlan
Customer Relations	Contractors learn who their customers are, and what they want.	4	\$50	GSCC
Electrical Safety for HVAC Contractors	This course takes a comprehensive look at electrical safety issues in the workplace, concentration on HVAC.	4	\$50	GSCC
First Aid	This course will cover descriptions of closed and open injuries;	4	\$50	GSCC

	general procedures of wound care; specific considerations and procedures in caring for face and scalp wounds, nosebleeds, eye injuries, neck wounds, abdominal injuries to the genitalia; procedures for dressing and bandaging wounds.			
Head Pressure Control - More Bang For Your Buck	This course covers the use of air-side and refrigerant-side components for controlling the head pressure in an A/C or Refrigeration system. The contractor will learn of the operating efficiencies that are gained and cost savings that are realized by controlling head pressure.	2	\$50	Sporlan
Home Standby Generator Training	The course includes the following topics: <ol style="list-style-type: none"> 1. Learning the features and benefits of the Home Generator Systems. 2. Proper sizing based on customer's home size and amp rating. 3. Locating product on property to meet code and safety requirements. 4. Learning complete installation instructions for: (a) 100 or 200 amp Automatic Transfer Switch, (b) Air Conditioning Control Module, and (c) Load Control - Power Management System <p>In addition, the students will receive a binder containing complete course information, plus worksheets for sizing and property placement, and a CD containing complete installation, logic, and service manuals for the entire product line.</p>	4	\$65	Rheem
Improving Compressor Reliability: A Systems Approach	Compressor failure is often attributed to one or more factors external to the compressor. Taking a "systems" approach, this program discusses how each system impacts the compressor and actions a technician can take to improve compressor reliability.	3	\$55	Rheem
Indoor Air Quality Management	<ul style="list-style-type: none"> • Indoor Air Quality Management: The seminar covers the past, present and future of Indoor Air Quality. Topics covered in the session: how poor IAQ impacts a business, common causes of poor IAQ, EPA classifications of symptoms, contaminants and buildings, microbiologic contaminants, Legionella and Stachybotrys, filtration methods and devices, and proper preventative maintenance. (Approved for CEC Alabama and Georgia 2 hours) 	2	\$50	Nu-Calgon
Installation & Troubleshooting Higher Efficiency A/C Systems for HVAC Contractors	Introduction to R-410a Refrigerant. Issues with equipment selection with higher SEER. Troubleshooting variable speed motors. Understanding Temperature-Pressure relationships with R-410a. Troubleshooting refrigeration systems with TXV's.	4	\$50	GSCC
Introduction to e-Commerce for HVAC Contractors	This course is designed to inform HVAC contractors of the benefits of conducting research and business via the Internet to enhance his or her business practices. Hands-on computer experience.	4	\$50	GSCC
Low Profile 80% Gas Furnace Family	The course includes information on installing and working with features found in modern furnaces, including 2 stage gas valves and ECM motors. Other related topics include proper venting and basic installation issues.	8	\$125	Rheem
Modulating 90 Plus Gas Furnaces	A computerized interactive study of modulating 90 plus gas furnaces, focusing on proper installation, their operation and troubleshooting diagnostics.	8	\$125	Rheem
Refrigerant 410A	This program provides essential information regarding Refrigerant 410A as R-22 phases out. The program covers, safety aspects, oil differences, and pressure characteristics of R-410A.	3	\$55	Rheem
Refrigeration Oils	<ul style="list-style-type: none"> • Refrigeration Oils: An in-depth look at Mineral, Alkylbenzene, and Polyolester Oils for the HVACR industry. This seminar will give the attendees a clear understanding of when and where to use each of these particular oils. Included in the training is an explanation of viscosity, thermal stability and miscibility and their importance when determining which type of oil to use for a particular system. (Approved for CEC Alabama and Georgia 2 hours) 	2	\$50	Nu-Calgon
Residential Cooling Systems Operations & Refrigerant Cycle Analysis	A computerized interactive study of residential cooling systems and the basic Refrigeration Cycle. The course also provides R410a certification to purchase and install Rheem R410a equipment.	8	\$125	Rheem

Residential Heat Pump Systems Operations and Diagnostics	A computerized interactive study of residential heat pump systems, focusing on their operation and troubleshooting diagnostics. The course also provides R410a certification to purchase and install Rheem R410a equipment.	8	\$125	Rheem
Shootin' Service - Trouble Shooting TEV's	Complete review and analysis of the refrigeration cycle as it relates to the operation, installation, trouble-shooting, and servicing of TEV's. The contractor will learn to take measurements of system parameters (pressures and temps) to help diagnose TEV performance problems.	2	\$50	Sporlan
Split System A/C Electrical Characteristics & Troubleshooting	A computerized interactive study of residential and commercial split systems, focusing on their electrical characteristics and troubleshooting diagnostics.	8	\$125	Rheem
Supermarket Refrigeration and Air Conditioning	Course Description (Use Attachments if Necessary): This course is a highly technical course and covers every aspect of supermarket refrigeration including: Oil Management system, TEV's, Refrigeration Distribution, Suction Pressure Regulation, Heat Reclaim, Head Pressure Control, Defrost Operation, and more. The course uses refrigeration examples, but the concepts are applied to HVAC as well. Anticipated Outcome: This seminar will examine current and emerging design trends and also theory of operation and trouble-shooting. The contractor will receive a good working knowledge of all the components.	8	\$85	Sporlan
Thermostatic Expansion Valve (TEV) Theory and Operation	Comprehensive seminar on the TEV. This course explores the theory and application of TEV's and how they interact with the Air Conditioning or Refrigeration system. The contractor will learn what forces and system parameters affect the valves operation and how.	4	\$50	Sporlan
Thermostatic Expansion Valves: How & Why	The program explores why the thermostatic expansion valve is used and how it operates. Valve construction, operation, installation and diagnostic procedures are covered. This program is a must in the world of 13 plus SEER equipment.	3	\$55	Rheem
Total System Protection	• Total System Protection: A thorough look at why burnouts occur and how to prevent them. We will also present the proper way to clean out a system once a burnout occurs. The training will also cover what one should do when acid, carbon deposits, sludge, and copper plating exists in a compressor as well as acid testing and acid neutralization. (Approved for CEC Alabama and Georgia 2 hour)	2	\$50	Nu-Calgon
Trouble Shooting Heat Pump Systems for HVAC	Basic study of the Heat Pump Reverse Refrigeration Cycle. Included will be trouble shooting tips and performance rating formulas.	4	\$50	GSCC
Troubleshooting Air Conditioning Systems	Instruction on troubleshooting PSC compressors and motors, low voltage systems, integrated control boards, single and two-stage thermostats, and a/c systems equipped with thermostatic expansion valves.	4	\$50	GSCC
Understanding Pressure - Enthalpy Relationship	Course Description (Use Attachments if Necessary): A technical examination of the refrigeration cycle. Anticipated Outcome: The student will be led through each segment of the Pressure - Enthalpy chart and explore how it should work in an ideal situation as well as "real world" situations.	2	\$50	Sporlan
Using the Sporlan Selection Software	Course Description (Use Attachments if Necessary): An in depth look at how the Sporlan Selection program works and what it can do for the HVAC & R contractor. Anticipated Outcome: The contractor / engineer will learn how to use this software to properly size system components based on actual design conditions.	2	\$50	Sporlan
Variable Speed Motor Technology: Operations Set-Up and Diagnostics	Focusing on the ECM motor this program discusses motor theory, set-up, and detailed diagnostic and replacement procedures. While the program covers fundamental motor information, much of the set-up and wiring diagrams are specific to the (-)BHK & (-)GPL product line.	3	\$55	Rheem
Violence in the Workplace	Participants gain a heightened level of awareness of the potential for violence. They learn to recognize the symptoms and how to defuse.	4	\$50	GSCC

Water Treatment	<ul style="list-style-type: none">• Water Treatment: This seminar will give the attendees a thorough understanding of water treatment maintenance for cooling towers, evaporative condensers, boilers, and chillers. They will learn how to set up a drip feeder, work with an auto-feed system and gain knowledge on how to formulate the correct treatment to prevent and control scale, slime and corrosion. (Approved for CEC Alabama and Georgia 4 hours)	4	\$100	Nu-Calgon
Winter Water Treatment	<ul style="list-style-type: none">• Winter Water Treatment: Similar to the water treatment seminar, this program focuses on what a system needs prior to the winter season. Attendees will learn the differences between ethylene and propylene glycol and the proper treatments for hot/cold closed systems and low make-up steam systems. (Approved for CEC Alabama and Georgia 2 hour)	2	\$50	Nu-Calgon
Workplace Safety for HVAC	The course deals with personal safety and hazard communication, as well as vehicle safety, working at heights, material handling and lifting, compressed gases, etc.	4	\$50	GSCC