



State Board of Examiners of Plumbing, Heating & Fire Sprinkler Contractors

1109 Dresser Court Raleigh, North Carolina 27609

919/875-3612 - Fax 919/875-3616 - email: info@nclicensing.org

N.J. Whitaker, Chairman

H. Singh, R.J. Long, J. L. Harrison, Jr., A. Williams, P.K. Selby, T.G. Proffitt

Message from Sandra O'Brien, Executive Director

Resolution Conferences

Resolution Conferences have been held for several months now and I am happy to report that we are succeeding in accomplishing our goals.

At first we were apprehensive that licensees would fail to realize the seriousness of the problems and fail to attend. While we have had several contractors that have called and tried to cancel the most of them have ultimately shown up.

The several licensees that ignored the invitation letter and did not attend the conference suddenly called and wanted to meet when they received the paperwork notifying them that the Resolution Committee held the conference without them.

These conferences are a rare opportunity for the licensees to have input by discussing the complaint and having the time to explain their side of what happened. The licensee is also given input into what the result of the conference will be.

When it is apparent that the licensee is lacking in knowledge in a specific area they may be given the opportunity to obtain education in that area. This type of agreement may actually keep a contractor's license from being suspended. When some of the complaints were headed towards an obvious suspension we were able to hold that in abeyance allowing the licensee to perform in other ways in order to prove that they were capable of change.

We have held a total of 66 Resolution Conferences with an agreement being reached between to licensee and the committee the majority of the time. The committee has withdrawn two agreements and forwarded several to a Formal Hearing when an agreement could not be reached.

A licensee has 30 days after receiving written verification of the agreement to reject their signed agreement and move forward to a Formal Hearing. Two have chosen to rescind their agreement.

More on Mismatched Systems

Bill Tomlinson, Assistant Executive Director

Our Spring 2002 newsletter carried an article regarding mismatched equipment, written to make sure that HVAC contractors remember the concerns about mixing incompatible equipment which may arise during an investigation following complaints to the Board.

The article generated a number of calls to the Board and to the Building Codes section of the North Carolina Department of Insurance. A variety of interpretations and reactions from various inspection departments were noted. In particular, distinctions between new installations and replacements, and between major and minor components were noted.

General Statutes 153A-357 and 160A-417 require a permit for the general repair or

replacement of any heating or cooling equipment. The Board understands "general repair" to refer to major repair, which ordinarily involves major components. Licensees of the Board are aware that minor repairs do not require a license from this Board, and may not require a permit from the local inspector.

Many repairs involve only the replacement of defective parts. While replacement parts should work with the equipment being repaired and be installed in accordance with the manufacturers installation instructions, the Board recognizes that this may not always be possible. Older HVAC equipment may not have matching replacement parts nor manufacturers

Mismatched continued on page 2

DO YOU HAVE YOUR
6
HOURS

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TAKE NOTE:

- You must have 6 CE hours of Board approved Continuing Education credits by 12/31/2002.
- Check your CE hours online by clicking "Continuing Education" at www.nclicensing.org

installation instructions available; however, the systems should function properly with the replacement parts.

When a heating contractor replaces HVAC equipment with replacement parts not matched to the HVAC equipment, the Board holds the licensee responsible to assure that the replacement parts work as intended in the HVAC equipment being repaired or replaced. The heating contractor will be held accountable for any failure of the HVAC equipment or deficient operation resulting from replacement equipment incompatible with pre-existing or replaced components. The Board encourages all heating contractors to verify that replacement components used in existing HVAC equipment will work in that existing equipment, and wish to emphasize that the Board must hold the heating contractor responsible for any repair or replacement.

Local inspection departments can issue permits for the repair or replacement of existing HVAC equipment but, according to the NCDOL, have no authority to require letters from equipment manufacturers approving replacement parts or equipment. The advice from the Board to obtain a letter from the manufacturer of the equipment to be mismatched is intended to protect the heating contractor in any situation where compatibility, whether in size, rating or listing, may be an issue. It is not intended, let alone mandated, that inspections departments should withhold permits or require total replacement of HVAC equipment in lieu of the more economical replacement of defective parts or equipment. The local inspector has discretion which should be and usually is exercised wisely.

When making field investigations our staff has concluded that many other factors may cause a system to operate below peak performance. Some of these factors are as follows:

- Restricted or kinked refrigerant lines
- Improper refrigerant charge
- Inadequate or improper wiring
- Restricted condenser airflow
- Restricted evaporator airflow
- Leaky ductwork
- Improperly hung ductwork
- Improper duct distribution
- Inadequate existing supply or return
- Clogged filters
- Mismatched or inappropriate equipment for the application.

To design an optimal system, the contractor must start with proper heating and cooling load calculations. A properly sized coil or blower/coil unit and condensing unit can then be selected based on the certified performance data of the equipment selected. The selection may or may not be components of the same brand. Performance data of all condensing unit manufacturers as well as major coil and blower/coil units are spelled out in their respective specification sheets. However, experience shows that consumers, competitors and inspectors are more likely to question the licensee who mixes and matches.

Helpful Tips To Tell Clients During Extreme Hot Spells

- Keep grass clippings and leaves away from your outdoor unit. This keeps dirt and debris from getting into your system. It also keeps the airflow path clear;
- Keep furniture and carpeting away from grills and ductwork. If you block your air conditioning system's ability to deliver air, you rob yourself of the cooling necessary to keep your home comfortable;
- Change or clean your filter once per month. Dirty filters cause your system to work harder, which means more energy use and higher utility bills;
- Keep your west-facing drapes, shade or blinds drawn in the afternoon. Keeping the sun out will keep your home cooler.
- Run your dishwasher, washing machine and dryer in the evening hours;
- Don't use your oven;
- Keep your fan running. It helps to keep the air moving;
- Don't let your system go into setback. During high temperatures, the recovery time from a setback function does not help with your comfort;
- Don't overrun an exhaust fan. It pulls the air conditioning out of the house;
- Use a programmable thermostat. This allows you to cool your home only when you need it;
- Zone your heating and cooling system. If you spend most of your time in one part of the home or if different people in your home want the temperature at different settings, then zoning can help you be more comfortable and save money on your utility bills;
- Use an attic ventilator. By pulling hot air out of your home, you can keep your home cooler in the summer;
- Have your cooling system checked once per year by an ACCA member contractor. Your equipment works more efficiently when it is clean and running properly;
- Before you call for service: Check the batteries in your programmable thermostat (if it has them), check that your breakers are on, and check that your thermostat is set to "cool." If your system seems to be running all the time, check to see if the thermostat's fan position is set in the "on" position;
- Be patient. Remember that contractors are working as fast as they can;
- Be kind to the serviceperson when he or she arrives at your house. Remember that he or she is working in the heat and are doing the best they can.

Reprinted from the ACCA Kansas City Chapter, June 2000 Newsletter

Consent Agreement Report

A Consent Agreement is an affidavit taken from unlicensed individuals performing plumbing, heating and fire sprinkler work without a license. These individuals sign a Consent Agreement stating that they will not perform any work requiring a license until they are properly licensed to do so. If you see these businesses or individuals in the field please report them to this office.

<u>Name</u>	<u>City/Town</u>	<u>Consent Agreement</u>
Baker, Greg	Vale, NC	1/30/2002
Barr, Rosie	Mt. Airy, NC	1/31/2002
Blue, Bobby	Charlotte, NC	1/22/2002
Brooks, Timothy	Louisburg, NC	3/05/2002
Burch, Clay	Indian Trail, NC	1/30/2002
Colvin, John	Carrboro, NC	1/30/2002
Creech, James	Rocky Point, NC	2/28/2002
Flake, Randall	Dahlongega, GA	2/19/2002
Funderburk, Michael	Vale, NC	1/30/2002
Gardner, Donald	Marion, NC	1/28/2002
Harper, Randall	Clarendon, NC	5/07/2002
Helms, Steve	Indian Trail, NC	2/05/2002
Hinnant, Phil II	Greensboro, NC	4/19/2002
Honeycutt, David	Stanfield, NC	3/04/2002
Huffman, Calvin	Blacksburg, SC	3/26/2002
Jackson, Gary	Greenville, NC	2/18/2002
Jones, James	Fayetteville, NC	2/21/2002
Krajc, John	Greensboro, NC	2/11/2002
Leonard, Ronald	Wilmington, NC	2/28/2002
Mathis, Greg	Marion, NC	1/28/2002
Metcalf, Gerald	Asheville, NC	2/07/2002
Oliver, Bill	Fayetteville, NC	2/01/2002
Ortiz, Raul	Charlotte, NC	3/05/2002
Potts, Frank	Mt. Airy, NC	1/31/2002
Ragan, Clarence	Charlotte, NC	1/16/2002
Rogers, Paul	Burlington, NC	3/26/2002
Salinas, Manuel	Charlotte, NC	3/05/2002
Simpson, Ira	Charlotte, NC	1/30/2002
Smith, Joe	Rocky Mount, NC	1/17/2002
Taylor, Clifton	Deep Run, NC	2/20/2002
Truelove, Steven	Garner, NC	3/01/2002
Wright, Billy	High Point, NC	5/02/2002

Don't put off till tomorrow what you can do today
Get Your CE Hours Now.

Permit Warning Letters

<u>Name</u>	<u>City/Town</u>	<u>Permit Warning</u>
Armstrong, Paul	Rocky Mount, NC	01/10/2002
Baker, Carl	Charlotte, NC	03/06/2002
Beecroft, Brad	Southport, NC	03/13/2002
Bowles, David	Charlotte, NC	01/29/2002
Brown, John	Reidsville, NC	04/09/2002
Byer, Richard	Cornelius, NC	11/27/2001
Carter, Michael Sr.	Cornelius, NC	01/30/2002
Cope, Douglas	Charlotte, NC	04/11/2002
Davis, Garland	Monroe, NC	02/14/2002
Edwards, Don Jr.	Cornelius, NC	01/30/2002
Frame, David	Charlotte, NC	01/14/2002
Franklin, Ronald	Belmont, NC	02/20/2002
Glenn, Milton	Durham, NC	02/15/2002
Henry, Alfred	Charlotte, NC	02/06/2002
Hensley, Frank	Gastonia, NC	02/18/2002
Jackson, Lloyd	Wilmington, NC	02/10/2002
Jenkins, Eric	Statesville, NC	03/25/2002
Kiker, James	Monroe, NC	02/05/2002
Lambeth, Rick	Charlotte, NC	01/30/2002
Loof, William	Statesville, NC	01/22/2002
Neville, Troy	Leland, NC	04/18/2002
Page, Willie	Castle Hayne, NC	04/29/2002
Propst, Arthur	Hickory, NC	01/31/2002
Puglisi, Louis	Burgaw, NC	02/04/2002
Roberts, David	Gastonia, NC	11/14/2001
Sechrist, Dennis	Mt. Airy, NC	01/31/2002
Taylor, Randy	Castle Hayne, NC	02/14/2002
Watson, Timothy	Hampstead, NC	04/12/2002
Zapata, Tony	Fayetteville, NC	03/28/2002

Dealing With Summer Heat

Heat Exhaustion

What Happens to the Body:

Headaches, dizziness/Light Headedness, Weakness, Mood Changes (irritable, or confused/can't think straight), Feeling Sick To Your Stomach, Vomiting/Throwing Up, Decreased and Dark Colored Urine, Fainting/Passing Out, and Pale Clammy Skin.

What Should Be Done:

- ♦ Move the person to a cool shaded area to rest. Don't leave the person alone. If the person is dizzy or light headed, lay them on their back and raise their legs 6-8 inches. If the person is sick to their stomach lay them on their side.
- ♦ Loosen and remove any heavy clothing.
- ♦ Have the person drink some cool water (a cup every 15 minutes) if they are not feeling sick to their stomach.
- ♦ Try to cool the person by fanning them. Cool the skin with a cool spray mist of water or wet cloth.
- ♦ If the person does not feel better in a few minutes call for emergency help (Ambulance or Call 911).

(If heat exhaustion is not treated, the illness may advance to heat stroke.)

How to Protect Workers

- ♦ Learn the signs and symptoms of heat induced illness and what to do to help the worker;
- ♦ Train the work-force about heat-induced illnesses.
- ♦ Perform the heaviest work in the coolest part of the day.
- ♦ Slowly build up tolerance to the heat and the work activity (usually takes up to 2 weeks).
- ♦ Drink plenty of cool water (one small cup every 15-20 minutes)
- ♦ Wear light, loose-fitting, breathable (like cotton) clothing.
- ♦ Take frequent short breaks in cool shaded areas (allow your body to cool down).
- ♦ Avoid eating large meals before working in hot environments.
- ♦ Avoid caffeine and alcoholic beverages (these beverages make the body lose water and increase the risk for heat illnesses).

Information provided by the Occupational, Safety, and Health Administration.

Good Guys & Gals Award

The Skills USA/VICA competition was held March 14, 2002, in Greensboro, at NCAPHCC's Annual Convention and Expo.



Winners and their teachers for the various "disciplines" are listed below:

****Plumbing:**

Jason Chevier - Student
Donnie Brafford - Advisor
Lee County High School—Sanford, NC

**** The local Charlotte Plumbing, Heating and Cooling Contractors Association voted to sponsor this category and have contributed the funds to NCAPHCC's Education Foundation.**

HVAC:

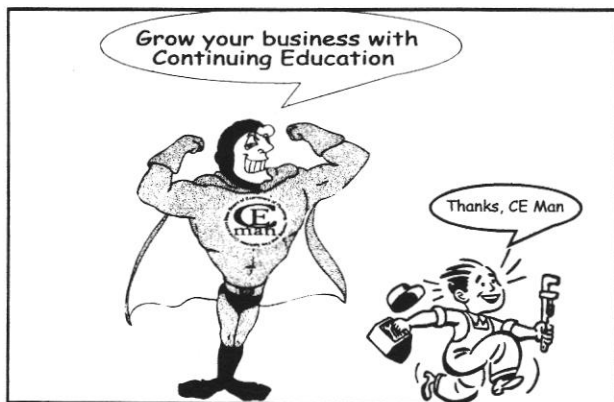
Nick Keziah - Student
Gary Ramsey - Advisor
NF Woods Advanced Technology Center—Mooresville, NC

Industrial Motor Control:

Wes Kizosuski - Student
Randy Basinger - Advisor
Northwest Cabarrus High School—Concord, NC

NCAPHCC is sponsoring the winners and teachers to attend the National Skills USA/VICA competition. June 24-29 in Kansas City.

Next year's competition will be held April 3 in Raleigh during the Expo at the Raleigh Convention Center. Anyone interested in volunteering to judge or supply prizes to the students can call NCAPHCC at 919-661-8222.



The Board will no longer be printing the Register and selling it. In the future it will be online in a format that you can search and print out information. The process of having it printed was so time consuming and ended up being very outdated as soon as it was available. Refunds of \$4.00 will be mailed to those licensees who purchased the register.

Iron rust from disuse, stagnant water loses its purity and in cold weather becomes frozen; even so does inaction sap the vigor's of the mind.

— Leonardo da Vinci

Code Interpretations

PLUMBING CODE

Add to Table 702.4 as follows:
Polyvinylchloride (PVC) Plastic
ATSM F 1866 (10" Diameter and Larger)

DOI INTERPRETATION:

The PVC pre-fabricated fitting (ASTM F1866) may be used for drainage piping 10" diameter and larger. The PVC pre-fabricated fitting (ASTM F1866) may be used for storm drainage piping (Tables 1102.4 & 1102.5).

Section 706.3—Installation of Fittings—*sanitary tee patterns shall not receive the discharge of back-to-back fixtures or appliances with pumping action discharge.*

DOI INTERPRETATION

The above would not apply to back-to-back water closets but would apply to fixtures or appliances with pumping action discharge (clothes washers, etc.).

Section 708.7—Minimum Size—Cleanouts shall be the same nominal size as the pipe they serve up to 4 inches (102mm). For pipes larger than 4 inches (102mm) nominal size, the minimum size of the cleanout shall be 4 inches (102mm).

DOI INTERPRETATION

The same nominal size as the pipe they serve up to 4 inches will include the 4" pipe size.

Section 705. 14.2—Solvent Cementing—Joint surfaces shall be clean and free of moisture. A purple primer that conforms to ASTM F656 shall be applied and cement not purple in color shall be applied to all joint surfaces.

DOI INTERPRETATION

Purple primer shall be used on all PVC pipes.

Reprint from NC Council of Code Officials Newsletter

SUMMARY OF FORMAL PROCEEDINGS

ALEXANDER, WARREN, JR., 12/27/01 Elizabeth City, NC
Allegations of permit, system operation and being unlicensed in the business of heating contracting.
Summons and Complaint filed 1/09/02.

Permanent Injunction filed by the Court on 2/27/02 enjoining the Defendant from engaging in business as a plumbing, heating, or fire sprinkler contractor until properly licensed.

ARRICO, STEVEN DONALD Monroe, NC 12/27/01

Allegations of plumbing contracting without a license.

Summons and Complaint filed 1/09/02 in Union County.

Permanent Injunction filed by the Court on 3/4/02 enjoining the Defendant from engaging in business as a plumbing, heating, or fire sprinkler contractor until properly licensed.

BERRY, JR., BERNAL BRYANT Charlotte, NC 1/29/02

Allegations of heating contracting without a license.

Summons and Complaint filed 2/11/02.

Consent Order entered by the Court on 3/13/02 in the Mecklenburg County Superior Court enjoining the Defendant from engaging in business as a plumbing, heating, or fire sprinkler contractor.

CAMPBELL, WILLIE RAY 7/9/01 Fairmont, NC

Allegations of heating contracting without a license.

Summons and Complaint filed July 31, 2001.

Judgment of Permanent Injunction entered on 3/25/02 with the Robeson County Superior Court enjoining the Defendant from engaging in the business of plumbing, heating or fire sprinkler contractor until properly licensed to do so.

DILLON, JESSIE W. 12/27/01 Charlotte, NC

Allegations of plumbing contracting without a license.

Summons and Complaint filed 1/08/02.

Permanent Injunction Judgment entered in Mecklenburg County Superior Court on 4/3/02 enjoining Defendant from engaging in business as a plumbing, heating or fire sprinkler contractor until properly licensed.

DURHAM, ALONZO TRENT 12/6/99

Owner, TRIPLE D'S SERVICE License #19164 H-3-I Raleigh, NC
Allegations of incompetence in the business of heating contracting in that installations by respondent failed city inspections repeatedly, demonstrated lack of knowledge and understanding of the building code, installed ductwork which was severely restricted, utilized panned joints in ductwork system but failed to insulate panning material; failed to install exhaust vent 4' from window as required; installed trunk line going downhill, failed to obtain permit, failed to place unit on concrete pad, installed return air plenum sitting in direct contact with ground with improperly made joints and piled dirt against equipment to conceal deficiencies; taped doors on the furnace because frame was bent, failed to properly fit supply plenum to furnace and failed to properly seal plenum; slid air conditioner coil into opening of supply plenum, failed to properly seal or slope the air conditioner coil, improperly cut a hole in heat exchanger end of furnace cutting a structural member of furnace in recess; failed to install filter racks allowing filter to fall down inside return box and wrapped furnace casing with duct insulation to conceal work. Order issued by the Board 1/25/02 revoking license of respondent.

HYDE, CHARLES MARTIN 9/10/01 License #19333 H-3- Clyde, NC

Allegations of incompetence in the business of heating contracting in that respondent failed to provide adequate supervision, engaged in threatening and abusive behavior toward customer.

Summary Procedure held 12/12/01.

Final order issued by the Board on 2/13/02 entering a Letter of Warning on the license record of respondent.

JOHNSON, LARRY KEITH 9/18/01 License #23246 P-I Charlotte, NC

Allegations of misconduct in the business of plumbing contracting.

Respondent failed to complete installation, failed to renew license after promising to do so, promised Board staff he would obtain the Certificate of Occupancy by 7/13/01 but failed to do so, failed to adequately support PVC building drain piping every four feet, used a brick to support a piece of the PVC building drain piping, failed to connect the CPVC piping for the Second floor to the hot and cold water mains, failed to use PVC primer/cleaner prior to gluing joints under the kitchen sink; and installed the stack within 5/8" of a structural member.

Final Order issued by the Board 1/2/02 ordering the respondent to present evidence from the homeowner within 30 days of the date of the Recommended Order that the installation has been completed to the homeowner's satisfaction and has passed final inspection; upon presentation to the Board of satisfactory completion of the installation, a Letter of Warning shall be entered on the license record of respondent admonishing him to obtain written contracts signed by both the respondent and the homeowner and improve communications with homeowners in the future. Then in the event respondent fails to provide proof of satisfactory completion of the installation, Respondent's license to engage in business as a plumbing contractor be revoked.

JOHNSON, PAUL DAVID 8/17/01 License #18111 H-3-II Matthews, NC

Allegations of incompetence in the business of heating contracting in that respondent failed to provide adequate supervision resulting in 3 failed inspections, failed to properly install flexible ductwork joint, installed copper gas piping in contact with black iron and with cement block pier, failed to seal floor register boot, failed to insulate floor register boot, installed PVC flue piping with less than 1/4" per foot rise, failed to properly support PVC flue piping, installed PVC flue piping and PVC condensate piping using a one-step cleaner/glue, failed to clean/prime PVC flue piping and condensate piping prior to gluing fittings, installed PVC flue termination within 12" of adjacent wall, failed to properly support PVC condensate piping, installed a 14" diameter return air flexible duct for a 2.5 ton unit located in the crawl space, failed to seal secondary drain line at drain pan, failed to seal takeoff collars at the ductwork, failed to entirely seal ductwork, failed to seal cabinet openings at evaporator coils where refrigerant piping and condensate piping enter, failed to seal dryer exhaust piping along longitudinal joints, failed to properly fasten one floor register boot on first floor to the structure, installed flexible ductwork so that it has more than 1/2" per foot fall and is restricted by hanger straps and failed to properly support gas piping and condensate piping in the attic.

Final Order issued by the Board on 2/13/02 placing the license of respondent on probation for 1 year with provisions that respondent have written contracts, obtain permits as required, maintain job files and service logs and records detailing his compliance with the provisions of this order, enroll in and pass a course in AHR Comfort Cooling or equivalent course at Piedmont Community College approved by staff of the Board and commit no violation of Article 2, Chapter 87 or the Rules of the Board.

JONES, LEE ROY 10/01/01 Huntersville, NC License # 19655 H-3-II

Allegations of incompetence in the business of heating contracting in that Respondent failed to seal the return air patch on the bottom of the unit; failed to cover the return air filter which is allowing unfiltered/unconditioned air to enter the system; improperly made the return transition so as to allow only partial use of the return air filter; failed to install a drip leg on gas piping; installed the flexible gas connector entering into the cabinet of the furnace; improperly supported both the furnace and coil; installed the supply transition larger than the unit opening; failed to install the b-vent flue piping with a quarter-inch per foot rise; failed to complete refrigerant piping insulation; failed to install condensate piping; allowed his license to be used to obtain the permit and provided no supervision; installed the collar into the duct opening with screws instead of using an approved method; failed to properly protect the copper gas piping within three feet to grade; failed to properly install the gas piping sleeve into the wall; failed to properly support flexible ductwork every five feet; failed to replace vapor barrier that had been torn; provided such inadequate supervision with the result the installation failed rough-in inspection twice and failed final inspection three times; failed to obtain final inspection on either of two permits; installed the flexible gas connector so as to enter through the cabinet of the gas pack; failed to protect the control wiring; failed to protect the copper gas piping within three feet of grade; failed to properly support the copper gas piping; used an electrical tie to serve the gas piping; failed to properly sleeve the gas piping at the masonry wall; failed to fasten the supply duct on all sides to the unit; used improper starting collars; failed to remove debris from the installation of duct board; used regular sheet metal collars instead of ductboard starting collars; the installation of duct board; used regular sheet metal collars instead of ductboard starting collars; failed to bend all tabs on the collars; failed to install balancing dampers; installed the return air opening flange with an undersized collar; in a three-ton system; utilized improper flexible duct connections;

Continued from page 5

crammed the flexible ductwork between the ductwork and floor joists above; installed the flexible ductwork so that the radius is too tight; used one-inch wide support straps for flexible ductwork; installed the flexible ductwork within four-inches of the ground; failed to properly tape the register boot insulation; failed to provide a continuous vapor barrier; used tape and mastic to secure the collars for the ductwork; installed an undersized return air grille in the floor; installed an undersized filter for the air return; failed to mark gas piping; installed gas piping so as to be in contact with dissimilar metals; installed gas piping so that it rests on ceiling grid; used dissimilar metal supports on gas piping; improper flexible joint construction; failed to insulate return air box in attic area; used a metal starting collar as a splice connector; failed to insulate supply register boot; failed to install a smoke detector on third floor; installed an undersized return filter and grille on the third floor unit; failed to install a second floor register; installed an undersized filter and return air box for second floor unit; failed to rodent-proof the condensate and refrigerant piping opening; failed to properly install refrigerant piping insulation; failed to terminate the condensate discharge from the five-ton unit at a proper location; installed the condensate of the two-ton unit over a telephone wiring box; improperly terminated the b-vent flue piping outside; failed to install power venters; installed ducts criss-crossed resulting in crushed flexible ductwork; failed to seal the opening around the b-vent flue piping; installed the thermostat control wiring strapped to the b-vent flue; failed to support the PVC condensate piping; failed to prime/clean the PVC condensate piping prior to gluing; installed undersized air return for the five-ton unit; installed undersized duct for the five-ton unit; installed splice connections which have come apart due to improper flexible duct connections; failed to properly attach return air patch behind the first floor return to the insulating material; partially sealed a take-off collar; failed to install the refrigerant piping insulation to the coil; failed to install emergency shut-off switches on either unit; obtained only one permit; used thirteen six-inch diameter ducts for a five-ton system; failed to install combustion and relief ductwork for the two gas fired appliances; failed to obtain inspections and misrepresented the scope of work on the permit; misrepresented the existence of a lightning strike; failed to install unit with a filter rack and condensate trap; failed to properly wire the unit; failed to install an electric strip heater; improperly installed power and control wiring and was not up to code; failed to use mastic tape on the return; installed a used unit instead of a new one; failed to leave installation, operation, and maintenance manual with the unit; failed to seal the return air plenum to the unit; used duct tape for electrical tape at the connections; improperly installed power wiring; failed to dispose of old unit; installed used equipment; promised to refund money but failed to do so; installed the b-vent flue pipe backward into an existing b-vent through the roof using screws rather than using a reducer; reattached supply air plenum to the furnace with an improper connection allowing air into the attic; failed to install a drip leg on the gas piping where the flexible gas connector enters into the furnace cabinet; installed improper electrical wiring; fastened electrical disconnect for the furnace by a metal strap; failed to install the refrigerant piping insulation to the unit; installed the condenser 7 inches from the wall in violation of the installation instructions which require the condenser be installed a minimum of 35 inches from the wall for this configuration; failed to complete the condensate drain line causing mold and mildew problems on the walls of the residence; failed to install connectors on undersized flex duct allowing the ductwork to fall apart under the house; installed 3 1/4" collars on extensions of ductwork which is undersized for a 3-1/2 ton system; installed the heat pump condensate trap tilted on its side; screwed the flashing at the house into the access panels of the unit; installed ductwork without adequate radius; failed to reinstall duct insulation to provide a complete vapor barrier and failed to install a lintel for the opening through the foundation wall.

Formal hearing scheduled 4/10/02.

KLOUSE, HAWLEY CLIFTON 12/27/01 China Grove, NC
Heating contracting without a license.

Permanent Injunction entered by the Court on 3/27/02 enjoining the Defendant from engaging in business as a plumbing, heating, or fire sprinkler contractor.

MITCHELL, CHARLES 12/27/01 Rocky Mount, NC
Plumbing contracting without a license.

Permanent Injunction entered 3/13/02 in the Nash County Superior Court enjoining Defendant from engaging in business as a plumbing, heating or fire sprinkler contractor.

PERROTTE, JOSEPH CLEMENT 12/27/01 Anderson, SC
Plumbing contracting without a license.

Permanent Injunction entered 3/14/02 in Buncombe County Superior Court enjoining Defendant from engaging in business as a plumbing, heating or fire sprinkler contractor.

PETTIGREW, BILLY RAY 12/21/01 China Grove, NC
Heating contracting without a license.

Permanent Injunction entered by the Court on 3/25/02 enjoining the Defendant from engaging in business as a plumbing, heating, or fire sprinkler contractor.

RASCOE, TURNER, a/k/a Roscoe Turner 9/17/01
d/b/a ALL AMERICAN ELECTRICIAN ASSOCIATION
Windsor, NC

Heating contracting without a license in violation of prior Order entered by the Court on 7/05/01.

Order of Contempt and Order of Arrest filed 3/14/02 in Hertford County Superior Court finding defendant in contempt of prior order and ordering defendant to pay a \$500.00 fine and to serve four days in the Hertford County jail.

RHODES JR., MAX STEVE 10/1/01 License #18312 P-I Raleigh, NC
Allegations of incompetence in the business of plumbing contracting in that respondent installed two sewer lines with back-grade, installed horizontal vent below the flood-level rim, installed excessive boring through structural members, installed vents and drain lines with back-grade, failed to vent upstairs tub drain, installed roof penetration too close to firewall, failed to protect water lines from chaffing and failed to carry out work in a timely fashion as required by the contract.

Summary Procedure held 1/16/02.

Final Order issued by the Board on 2/13/02 placing the license of respondent on probation for 1 year with provisions that Respondent have written contracts, obtain permits as required, that within 6 months after Order becomes effective, respondent enroll in and pass a course in HVAC/Plumbing Management or equivalent course approved by staff of the Board, maintain job files and service logs and records detailing his compliance with the provisions of this order and commit no violation of Article 2, Chapter 87 or the Rules of the Board.

SANTIS, JOHN HUNT China Grove, NCLicense #19497 H-3-I 9/10/01
Allegations of incompetence in the business of heating contracting in that respondent failed to obtain permit, final inspection and Certificate of Occupancy, failed to use metal connector to splice connection, used 1" strapping to support flexible ductwork and failed to seal take-off collars.

Summary Procedure held 12/12/01.

Final Order issued by the Board on 2/13/02 placing a Letter of Warning on the license of Respondent.

SHEW, JOSEPH GREY Mount Airy, NC License #19379 H-3-I 10/1/01
Allegations of incompetence in the business of heating contracting in that respondent failed to adequately secure ductwrap to supply and return air ducts, failed to install proper amount of duct hangers, failed to seal or insulate majority of sheet metal supply connectors, failed to install a trap on condensate line, failed to properly support and grade several of the condensate drains causing some PVC condensate drains to form condensate which is dripping on the ceiling tiles, spaced hangers at distances greater than allowed by code, failed to replace and seal several areas on trunk ducts, installed several flexible ducts without supports, failed to seal sheet metal trunk duct joint or seams, supported several flexible ducts with wire, installed a flexible supply duct with piece of duct that is too long, failed to properly construct several flexible duct joints, terminated a condensate drain at improper location, used improper hanger materials to support condensate drain, used fire stopping material to seal the condensate drain to gutter, installed restricted ductwork inhibiting air movement, installed gas shut-off on wrong side of sediment trap and made changes after final inspection.

Formal hearing held 2/13/02.

Consent Order issued by the Board on 2/13/02 suspending the license of respondent, Joseph Grey Shew, for 1 year. If all corrections to installation are made within 30 days from the date of the order and respondent, McCraw-Everhart produces a letter to the Board from the property owner to the effect they have resolved the issues in question and a final inspection and certificate of occupancy is obtained then there shall be no suspension of the license of the firm. In the event the requirements set forth above are not met by the firm, the license of the firm is suspended for 1 year.

Respondent McCraw-Everhart LLC shall reimburse the Board in the amount of \$400.00 to partially defray the cost of the investigation of this matter.

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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ALAMANCE COMMUNITY COLLEGE							
DATE	COURSE TITLE	TIME	LIC.	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
7/20/02	New International Mechanical & Gas Codes Review	8:00 am	All-H, FP	2	R. Barber	Graham	Rob Everett
7/20/02	General Liability & Workers' Compensation	10:00 am	All	2	T. Miles		336-228-0525 Ext.
7/20/02	Plumbing and Gas Code Changes	1:00 pm	All-P, FP	2	W.R. Rice	Graham	Rob Everett
7/29/02	New International Mechanical & Gas Codes Review	6:30 pm	All-H, FP	2	R. Barber		336-228-0525 Ext.
7/29/02	General Liability & Workers' Compensation	6:30 pm	All	2	T. Miles		
7/31/02	Plumbing and Gas Code Changes	1:00 pm	All-P, FP	2	W.R. Rice	Graham	Rob Everett
ASHEVILLE – BUNCOMBE TECHNICAL COMMUNITY COLLEGE							
9/14/02	International Plumbing Code Review	9:00 am	All-P	2	D. Stewart	Asheville	Skye Myrick
9/14/02	International Fuel Gas Code Review	11:30 am	All-P	2			828-254-1921
9/14/02	NC Accessibility Code - Plumbing	2:00 pm	All-P	2			
12/7/02	International Plumbing Code Review	9:00 am	All-P	2	D. Stewart	Asheville	Skye Myrick
12/7/02	International Fuel Gas Code Review	11:30 am	All-P	2			828-254-1921
12/7/02	NC Accessibility Code - Plumbing	2:00 pm	All-P	2			
BLADEN COMMUNITY COLLEGE							
9/26/02	Improving Your HVAC Skills	8:00 am	All-H	2	D. Humphrey	Dublin	Barbara Singletary
9/26/02	Basic Refrigeration Cycle/4 Basic Components	10:00 am	All-H	2	C. Powell		910-862-2164
9/26/02	Basic Condenser, Evaporator & Compressors Functions	1:00 pm	All-H	2	J. Lewis		
10/3/02	Improving Your HVAC Skills	8:00 am	All-H	2	D. Humphrey	Dublin	Barbara Singletary
10/3/02	Basic Refrigeration Cycle/4 Basic Components	10:00 am	All-H	2	C. Powell		910-862-2164
10/3/02	Basic Condenser, Evaporator & Compressors Functions	1:00 pm	All-H	2	J. Lewis		
10/10/02	Improving Your HVAC Skills	8:00 am	All-H	2	D. Humphrey	Dublin	Barbara Singletary
10/10/02	Basic Refrigeration Cycle/4 Basic Components	10:00 am	All-H	2	C. Powell		910-862-2164
10/10/02	Basic Condenser, Evaporator & Compressors Functions	1:00 pm	All-H	2	J. Lewis		
11/9/02	Improving Your HVAC Skills	8:00 am	All-H	2	D. Humphrey	Dublin	Barbara Singletary
11/9/02	Basic Refrigeration Cycle/4 Basic Components	10:00 am	All-H	2	C. Powell		910-862-2164
11/9/02	Basic Condenser, Evaporator & Compressors Functions	1:00 pm	All-H	2	J. Lewis		
CAROLINAS AGC							
7/25/02	Subcontractor – Risk Management	8:00 am	All	2	J. Burns	Savannah, GA	Ginny Bigham
7/25/02	Subcontractor – Planning & Schedule	10:00 am	All	2			704-372-1450
7/25/02	Subcontractor – Employee Obligations & Lien Laws	1:00 pm	All	2	J. Taylor		Ext. 5248
7/25/02	Subcontractor – Contract Law, Senate Bill 914	3:00 pm	All	2			
9/19/02	OSHA 10 Hour Part I Awareness	7:30 am	All	2	P. McCain	Charlotte	Ginny Bigham
9/19/02	OSHA 10 Hour Part II Fall and Electrical	9:30 am	All	2			704-372-1450
9/19/02	OSHA 10 Hour Part III Subparts P, X, Q & R	12:30 pm	All	2			Ext. 5248
9/19/02	OSHA 10 Hour Part IV Subparts I, L, & J	2:30 pm	All	2			
9/19/02	OSHA 10 Hour Part V Subparts E, F, & H	4:30 pm	All	2			
9/20/02	OSHA Excavation & Trenching - Introduction	7:30 am	All	2	P. McCain	Raleigh	Ginny Bigham
9/20/02	OSHA Excavation & Trenching - Overview	9:30 am	All	2			704-372-1450
9/20/02	OSHA Excavation & Trenching - Awareness	12:30 pm	All	2			Ext. 5248

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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CAROLINA'S AGC (con't)							
DATE	COURSE TITLE	TIME	LIC.TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
9/20/02	OSHA Excavation & Trenching - Applications	2:30 pm	All	2			
10/17/02	OSHA 10 Hour Part I Awareness	7:30 am	All	2	P. McCain	Raleigh	Ginny Bigham
10/17/02	OSHA 10 Hour Part II Fall and Electrical	9:30 am	All	2			704-372-1450
10/17/02	OSHA 10 Hour Part III Subparts P, X, Q & R	12:30 pm	All	2			Ext. 5248
10/17/02	OSHA 10 Hour Part IV Subparts I, L, & J	2:30 pm	All	2			
10/17/02	OSHA 10 Hour Part V Subparts E, F, & H	4:30 pm	All	2			
10/18/02	OSHA Excavation & Trenching – Introduction	7:30 am	All	2	P. McCain	Florence, SC	Ginny Bigham
10/18/02	OSHA Excavation & Trenching – Overview	9:30 am	All	2			704-372-1450
10/18/02	OSHA Excavation & Trenching – Awareness	12:30 pm	All	2			Ext. 5248
10/18/02	OSHA Excavation & Trenching – Applications	2:30 pm	All	2			
11/8/02	OSHA Excavation & Trenching – Introduction	7:30 am	All	2	P. McCain	Charlotte	Ginny Bigham
11/8/02	OSHA Excavation & Trenching – Overview	9:30 am	All	2			704-372-1450
11/8/02	OSHA Excavation & Trenching – Awareness	12:30 pm	All	2			Ext. 5248
11/8/02	OSHA Excavation & Trenching – Applications	2:30 pm	All	2			
11/8/02	Construction Law – Licensing & Contracts	8:30 am	All	2	G. Ahlum	Charlotte	Ginny Bigham
11/8/02	Construction Law – Liens, Change Orders	10:30 am	All	2	R. Burchette		704-372-1450
11/8/02	Construction Law – Bond Claims, Insurance Issues, & OSHA	1:30 pm	All	2	M. Wilson		Ext. 5248
11/8/02	Construction Law – Claims, Recognition, & Mediation	3:45 pm	All	2	G. Welch		
CALDWELL COUNTY BUILDING INSPECTION DEPARTMENT							
10/19/02	NC Administration & Enforcement Review	7:00 am	All	2	M. Annas	Lenior	Mark Annas
10/19/02	NC Fuel Gas Code Review Chapters 2,3, & 4	9:00 am	All	2			828-757-1343
10/19/02	NC Fuel Gas Code: Gas Pipe Sizing	11:00 am	All	2			
CAPE FEAR COMMUNITY COLLEGE							
9/14/02	International Plumbing Code Review Part I	8:00 am	All-P	2	M. Smith	Wilmington	Melissa Comer
9/14/02	International Plumbing Code Review Part II	10:15 am	All-P	2			910-362-7196
9/14/02	International Plumbing Code Review Part III	1:00 pm	All-P	2			
9/28/02	Highlights of the International Fuel Gas Code	8:00 am	All-P	2	L. Prince	Wilmington	Melissa Comer
9/28/02	Highlights of the International Mechanical Code	10:15 am	All-H	2			910-362-7196
9/28/02	Training to Make a Better Contractor	1:00 pm	All	2			
10/5/02	International Plumbing Code Review Part I	8:00 am	All-P	2	M. Smith	Wilmington	Melissa Comer
10/5/02	International Plumbing Code Review Part II	10:15 am	All-P	2			910-362-7196
10/5/02	International Plumbing Code Review Part III	1:00 pm	All-P	2			
11/2/02	Highlights of the International Fuel Gas Code	8:00 am	All-P	2	L. Prince	Wilmington	Melissa Comer
11/2/02	Highlights of the International Mechanical Code	10:15 am	All-H	2			910-362-7196
11/2/02	Training to Make a Better Contractor	1:00 pm	All	2			
CLEVELAND COMMUNITY COLLEGE							
10/29/02	International Plumbing Code Review Part I	6:00 pm	All-P	2	B. Pruett	Shelby	Chris Nanney
11/5/02	International Plumbing Code Review Part II	6:00 pm	All-P	2			704-484-4117
11/12/02	International Plumbing Code Review Part III	6:00 pm	All-P	2	B. Pruett		

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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COLLEGE OF ALBEMARLE							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
7/11/02	Air Flow Characteristics & Diagnostics	8:00 am	All-H	2	M. Cartwright	Elizabeth City	F. Horton
7/11/02	Air Flow Characteristics & Diagnostics	10:15 am	All-H	2			252-335-0821
7/11/02	Air Flow Characteristics & Diagnostics	12:30 pm	All-H	2			Ext. 2233
CRAVEN COMMUNITY COLLEGE							
9/28/02	Residential Building Codes for HVAC	8:00 am	All-H	2	D. Novak	New Bern	Rick McCormac
9/28/02	HVAC Design-Equipment Selection, Duct Layout & Sizing	10:00 am	All-H	2			252-638-7361
9/28/02	Problem Solutions – Impact on Mechanical Ventilation	1:00 pm	All-H	2			
12/7/02	Residential Building Codes for HVAC	8:00 am	All-H	2	D. Novak	New Bern	Rick McCormac
12/7/02	HVAC Design-Equipment Selection, Duct Layout & Sizing	10:00 am	All-H	2			252-638-7361
12/7/02	Problem Solutions – Impact on Mechanical Ventilation	1:00 pm	All-H	2			
FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE							
7/20/02	Introduction to Blueprint Reading	9:00 am	All	2	W. Autry	Fayetteville	Gerald Daniels
7/20/02	A/C, Refrigerant, & Sheet Metal Blueprint Reading	12:00 pm	All	2			910-678-8493
7/20/02	Building, Piping, & Plumbing Blueprint Reading	2:30 pm	All	2			
9/28/02	Introduction to Blueprint Reading	9:00 am	All	2	W. Autry	Fayetteville	Gerald Daniels
9/28/02	A/C, Refrigerant, & Sheet Metal Blueprint Reading	12:00 pm	All	2			910-678-8493
9/28/02	Building, Piping, & Plumbing Blueprint Reading	2:30 pm	All	2			
11/9/02	Introduction to Blueprint Reading	9:00 am	All	2	W. Autry	Fayetteville	Gerald Daniels
11/9/02	A/C, Refrigerant, & Sheet Metal Blueprint Reading	12:00 pm	All	2			910-678-8493
11/9/02	Building, Piping, & Plumbing Blueprint Reading	2:30 pm	All	2			
12/14/02	Introduction to Blueprint Reading	9:00 am	All	2	W. Autry	Fayetteville	Gerald Daniels
12/14/02	A/C, Refrigerant, & Sheet Metal Blueprint Reading	12:00 pm	All	2			910-678-8493
12/14/02	Building, Piping, & Plumbing Blueprint Reading	2:30 pm	All	2			
FORSYTH COMMUNITY COLLEGE							
08/10/02	Basic Job Safety	9:00 am	All	2	T. Stewart	Winston-Salem	Robert Leslie
08/10/02	Trenching & Excavating	11:00 am	All	2			336-631-1326
08/10/02	Protective Equipment for Safety	2:00 pm	All	2			
10/05/02	Basic Job Safety	9:00 am	All	2	T. Stewart	Winston-Salem	Robert Leslie
10/05/02	Trenching & Excavating	11:00 am	All	2			336-631-1326
10/05/02	Protective Equipment for Safety	2:00 pm	All	2			
HALIFAX COMMUNITY COLLEGE							
8/10/02	Workplace Safety for Plumbing Contractors	9:00 am	All	2	K. Kupietz	Weldon	Willa Dickens
8/10/02	Confined Space Entry	11:00 am	All	2			252-536-7274
8/10/02	Trench Operations	2:00 pm	All	2			
10/26/02	Workplace Safety for Plumbing Contractors	9:00 am	All	2	K. Kupietz	Weldon	Willa Dickens
10/26/02	Confined Space Entry	11:00 am	All	2			252-536-7274
10/26/02	Trench Operations	2:00 pm	All	2			

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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JAMES SPRUNT COMMUNITY COLLEGE							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
8/24/02	Highlights of the International Fuel Gas Code – Part I	8:00 am	All	2	L. Prince	Kenansville	Jackie Lanier
8/24/02	Highlights of the International Fuel Gas Code – Part II	10:00 am	All	2			910-296-2461
8/24/02	Highlights of the International Fuel Gas Code – Part III	1:00 pm	All	2			
10/12/02	Highlights of the International Fuel Gas Code – Part I	8:00 am	All	2	L. Prince	Kenansville	Jackie Lanier
10/12/02	Highlights of the International Fuel Gas Code – Part II	10:00 am	All	2			910-296-2461
10/12/02	Highlights of the International Fuel Gas Code – Part III	1:00 pm	All	2			
THE LEARNING CENTER							
9/9/02	Residential Heat Pump – Part A	6:00 pm	All-H	2	J. Key	Raleigh	Elizabeth Munn 919-828-9021
9/10/02	Residential Heat Pump – Part B	6:00 pm	All-H	2	J. Key	Raleigh	Elizabeth Munn 919-828-9021
9/10/02	90% Plus Gas Furnaces – Part A	9:00 am	All-H	2	D. Garceau	Asheville	Lillian Bradley
9/10/02	90% Plus Gas Furnaces – Part B	11:30 am	All-H	2			800-788-3247
9/10/02	90% Plus Gas Furnaces – Part C	3:00 pm	All-H	2			
9/11/02	Residential Heat Pump – Part C	6:00 pm	All-H	2	J. Key	Raleigh	Elizabeth Munn 919-828-9021
9/12/02	Residential Cooling Systems – Part A	8:00 am	All-H	2	A. Grant	Charlotte	Courtney Brickey
9/12/02	Residential Cooling Systems – Part B	10:30 am	All-H	2			800-768-2223
9/12/02	Residential Cooling Systems – Part C	2:00 pm	All-H	2			Ext. 1141
9/19/02	Residential Cooling Systems – Part A	8:00 am	All-H	2	A. Grant	Winston-Salem	Courtney Brickey
9/19/02	Residential Cooling Systems – Part B	10:30 am	All-H	2			800-768-2223
9/19/02	Residential Cooling Systems – Part C	2:00 pm	All-H	2			Ext. 1141
9/26/02	Residential Cooling Systems – Part A	8:00 am	All-H	2	A. Grant	Hickory	Courtney Brickey
9/26/02	Residential Cooling Systems – Part B	10:30 am	All-H	2			800-768-2223
9/26/02	Residential Cooling Systems – Part C	2:00 pm	All-H	2			Ext. 1141
10/1/02	90% Plus Gas Furnaces – Part A	9:00 am	All-H	2	D. Garceau	Charlotte	Lillian Bradley
10/1/02	90% Plus Gas Furnaces – Part B	11:30 am	All-H	2			800-788-3247
10/1/02	90% Plus Gas Furnaces – Part C	3:00 pm	All-H	2			
10/2/02	Split-System A/C Electrical – Part A	8:00 am	All-H	2	D. Garceau	Winston-Salem	Bobby Ogburn
10/2/02	Split-System A/C Electrical – Part B	10:30 am	All-H	2			336-725-1351
10/2/02	Split-System A/C Electrical – Part C	2:00 pm	All-H	2			
10/15/02	Residential Cooling Systems – Part A	9:00 am	All-H	2	D. Garceau	New Bern	Don Lee
10/15/02	Residential Cooling Systems – Part B	11:30 am	All-H	2			800-762-7697
10/15/02	Residential Cooling Systems – Part C	3:00 pm	All-H	2			
10/16/02	Residential Cooling Systems – Part A	9:00 am	All-H	2	D. Garceau	Wilmington	Don Lee
10/16/02	Residential Cooling Systems – Part B	11:30 am	All-H	2			800-762-7697
10/16/02	Residential Cooling Systems – Part C	3:00 pm	All-H	2			
10/17/02	Residential Cooling Systems – Part A	9:00 am	All-H	2	D. Garceau	Fayetteville	Lynn Sippel

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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THE LEARNING CENTER (con't)							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
10/17/02	Residential Cooling Systems – Part B	11:30 am	All-H	2			800-848-3641
10/17/02	Residential Cooling Systems – Part C	3:00 pm	All-H	2			
10/23/02	Residential Cooling Systems – Part A	9:00 am	All-H	2	D. Garceau	Rocky Mount	Patty Johnson
10/23/02	Residential Cooling Systems – Part B	11:30 am	All-H	2			800-768-3226
10/23/02	Residential Cooling Systems – Part C	3:00 pm	All-H	2			
10/24/02	Residential Cooling Systems – Part A	9:00 am	All-H	2	D. Garceau	Raleigh	Patty Johnson
10/24/02	Residential Cooling Systems – Part B	11:30 am	All-H	2			800-768-3226
10/24/02	Residential Cooling Systems – Part C	3:00 pm	All-H	2			
11/07/02	Split-System A/C Electrical – Part A	8:00 am	All-H	2	D. Garceau	Charlotte	Lillian Bradley
11/07/02	Split-System A/C Electrical – Part B	10:30 am	All-H	2			800-788-3247
11/07/02	Split-System A/C Electrical – Part C	2:00 pm	All-H	2			
11/07/02	Air Flow Characteristics & Diagnostics – Part A	8:00 am	All-H	2	A. Grant	Charlotte	Courtney Brickey
11/07/02	Air Flow Characteristics & Diagnostics – Part B	10:30 am	All-H	2			800-768-2223
11/07/02	Air Flow Characteristics & Diagnostics – Part C	2:00 pm	All-H	2			Ext. 1141
11/12/02	Split-System A/C Electrical – Part A	8:00 am	All-H	2	D. Garceau	Kinston	Glenwood Waters
11/12/02	Split-System A/C Electrical – Part B	10:30 am	All-H	2			252-523-6171
11/12/02	Split-System A/C Electrical – Part C	2:00 pm	All-H	2			
11/13/02	Split-System A/C Electrical – Part A	8:00 am	All-H	2	D. Garceau	Fayetteville	Hamilton Slate
11/13/02	Split-System A/C Electrical – Part B	10:30 am	All-H	2			910-483-0341
11/13/02	Split-System A/C Electrical – Part C	2:00 pm	All-H	2			
11/14/02	Split-System A/C Electrical – Part A	8:00 am	All-H	2	D. Garceau	Raleigh	Allen Flourney
11/14/02	Split-System A/C Electrical – Part B	10:30 am	All-H	2			919-832-2071
11/14/02	Split-System A/C Electrical – Part C	2:00 pm	All-H	2			
11/14/02	Air Flow Characteristics & Diagnostics – Part A	8:00 am	All-H	2	A. Grant	Winston-Salem	Courtney Brickey
11/14/02	Air Flow Characteristics & Diagnostics – Part B	10:30 am	All-H	2			800-768-2223
11/14/02	Air Flow Characteristics & Diagnostics – Part C	2:00 pm	All-H	2			Ext. 1141
11/21/02	Air Flow Characteristics & Diagnostics – Part A	8:00 am	All-H	2	A. Grant	Hickory	Courtney Brickey
11/21/02	Air Flow Characteristics & Diagnostics – Part B	10:30 am	All-H	2			800-768-2223
11/21/02	Air Flow Characteristics & Diagnostics – Part C	2:00 pm	All-H	2			Ext. 1141
SANFORD HOME BUILDERS ASSOCIATION							
11/13/02	2002 Building Code Review Part I	9:00 am	All	2	J. Thompson	Sanford	Jean Reynolds
11/13/02	2002 Building Code Review Part II	11:15 am	All	2			919-708-5252
11/13/02	2002 Building Code Review Part III	2:15 pm	All	2			
MIDEASTERN HEATING AND AIR CONDITIONING CONTRACTORS							
8/19/02	Electrical – Capacitors, Hard Start Kits, Etc.	6:30 pm	All-H	2	J. Lunsford	Rocky Mount	Steven Shearin
9/23/02	International Mechanical Code Review	6:00 pm	All-H	2	P.L. Brannon	Rocky Mount	252-937-4707
10/21/02	Introduction to 410A	6:30 pm	H-3-I, H-3-2	2	J. Lunsford	Rocky Mount	Steven Shearin
11/18/02	Sizing Gas Piping, Vent Piping, & Combustion Air	6:30 pm	All	2	P.L. Brannon	Rocky Mount	252-937-4707

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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NORTH CAROLINA ASSOCIATION OF PLUMBING, HEATING, COOLING CONTRACTORS – NCAPHCC							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
07/13/02	International Plumbing Code Review I	9:00 am	All-P	2	D. Taylor	Elizabeth City	Dianne Gulli
07/13/02	International Plumbing Code Review II	12:00 pm	All-P	2			877-742-2423
07/13/02	International Plumbing Code Review III	2:30 pm	All-P	2			
07/27/02	International Plumbing Code Review I	9:00 am	All-P	2	J. Voss	Asheville	Dianne Gulli
07/27/02	International Plumbing Code Review II	12:00 pm	All-P	2			877-742-2423
07/27/02	International Plumbing Code Review III	2:30 pm	All-P	2			
07/27/02	Combustion and Ventilation Air	9:00 am	All-H	2	L. Capps		
07/27/02	Venting Gas Appliances	12:00 pm	All-H	2			
07/27/02	Advanced Gas Pipe Sizing	2:30 pm	All-H	2			
08/03/02	International Plumbing Code Review I	9:00 am	All-P	2	J. Voss	Wrightsville Beach	Dianne Gulli
08/03/02	International Plumbing Code Review II	12:00 pm	All-P	2			877-742-2423
08/03/02	International Plumbing Code Review III	2:30 pm	All-P	2			
08/03/02	2002 NC Mechanical Code Review I	9:00 am	All-H	2	T. Stoner		
08/03/02	2002 NC Mechanical Code Review II	12:00 pm	All-H	2			
08/03/02	Six Deadly Sins for HVAC Contractors & How to Prevent Them	2:30 pm	All	2			
08/17/02	International Plumbing Code Review I	9:00 am	All-P	2	D. Taylor	Morehead City	Dianne Gulli
08/17/02	International Plumbing Code Review II	12:00 pm	All-P	2			877-742-2423
08/17/02	International Plumbing Code Review III	2:30 pm	All-P	2			
08/17/02	2002 NC Mechanical Code Review I	9:00 am	All-H	2	T. Stoner		
08/17/02	2002 NC Mechanical Code Review II	12:00 pm	All-H	2			
08/17/02	Six Deadly Sins for HVAC Contractors & How to Prevent Them	2:30 pm	All	2			
09/07/02	International Plumbing Code Review I	9:00 am	All-P	2	J. Voss	Jamestown	Dianne Gulli
09/07/02	International Plumbing Code Review II	12:00 pm	All-P	2			877-742-2423
09/07/02	International Plumbing Code Review III	2:30 pm	All-P	2			
09/07/02	2002 NC Mechanical Code Review I	9:00 am	All-H	2	T. Stoner		
09/07/02	2002 NC Mechanical Code Review II	12:00 pm	All-H	2			
09/07/02	Six Deadly Sins for HVAC Contractors & How to Prevent Them	2:30 pm	All	2			
09/14/02	International Plumbing Code Review I	9:00 am	All-P	2	D. Taylor	Fayetteville	Dianne Gulli
09/14/02	International Plumbing Code Review II	12:00 pm	All-P	2			877-742-2423
09/14/02	International Plumbing Code Review III	2:30 pm	All-P	2			
09/14/02	2002 NC Mechanical Code Review I	9:00 am	All-H	2	T. Stoner		
09/14/02	2002 NC Mechanical Code Review II	12:00 pm	All-H	2			
09/14/02	Six Deadly Sins for HVAC Contractors & How to Prevent Them	2:30 pm	All	2			
10/12/02	International Plumbing Code Review I	9:00 am	All-P	2	D. Taylor	Rocky Mount	Dianne Gulli
10/12/02	International Plumbing Code Review II	12:00 pm	All-P	2			877-742-2423
10/12/02	International Plumbing Code Review III	2:30 pm	All-P	2			
10/12/02	2002 NC Mechanical Code Review I	9:00 am	All-H	2	T. Stoner		
10/12/02	2002 NC Mechanical Code Review II	12:00 pm	All-H	2			
10/12/02	Six Deadly Sins for HVAC Contractors & How to Prevent Them	2:30 pm	All	2			
NCAPHCC (con't)							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
10/19/02	International Plumbing Code Review I	9:00 am	All-P	2	D. Taylor	Charlotte	Dianne Gulli
10/19/02	International Plumbing Code Review II	12:00 pm	All-P	2			877-742-2423
10/19/02	International Plumbing Code Review III	2:30 pm	All-P	2			
10/19/02	2002 NC Mechanical Code Review I	9:00 am	All-H	2	T. Stoner		

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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10/19/02	2002 NC Mechanical Code Review II	12:00 pm	All-H	2			
10/19/02	Six Deadly Sins for HVAC Contractors & How to Prevent Them	2:30 pm	All	2			
11/02/02	International Plumbing Code Review I	9:00 am	All-P	2	J. Voss	Salisbury	Dianne Gulli
11/02/02	International Plumbing Code Review II	12:00 pm	All-P	2			877-742-2423
11/02/02	International Plumbing Code Review III	2:30 pm	All-P	2			
11/02/02	2002 NC Mechanical Code Review I	9:00 am	All-H	2	T. Stoner		
11/02/02	2002 NC Mechanical Code Review II	12:00 pm	All-H	2			
11/02/02	Six Deadly Sins for HVAC Contractors & How to Prevent Them	2:30 pm	All	2			
11/16/02	International Plumbing Code Review I	9:00 am	All-P	2	D. Taylor	Raleigh	Dianne Gulli
11/16/02	International Plumbing Code Review II	12:00 pm	All-P	2			877-742-2423
11/16/02	International Plumbing Code Review III	2:30 pm	All-P	2			
11/16/02	2002 NC Mechanical Code Review I	9:00 am	All-H	2	T. Stoner		
11/16/02	2002 NC Mechanical Code Review II	12:00 pm	All-H	2			
11/16/02	Six Deadly Sins for HVAC Contractors & How to Prevent Them	2:30 pm	All	2			
12/07/02	International Plumbing Code Review I	9:00 am	All-P	2	J. Voss	Winston-Salem	Dianne Gulli
12/07/02	International Plumbing Code Review II	12:00 pm	All-P	2			877-742-2423
12/07/02	International Plumbing Code Review III	2:30 pm	All-P	2			
12/07/02	2002 NC Mechanical Code Review I	9:00 am	All-H	2	T. Stoner		
12/07/02	2002 NC Mechanical Code Review II	12:00 pm	All-H	2			
12/07/02	Six Deadly Sins for HVAC Contractors & How to Prevent Them	2:30 pm	All	2			
NORTH CAROLINA HEATING & AIR CONDITIONING CONTRACTORS ASSOCIATION (NCHACCA)							
7/13/02	Contract Pitfalls – Liens and Collections	8:00 am	All	2	P. Safran	Raleigh	Rae Helms
7/13/02	Major OSHA Issues and Personnel Matters	10:00 am	All	2			704-567-9374
7/13/02	Safety Issues and a Safety Program	12:00 pm	All	2			
7/20/02	Contract Pitfalls – Liens and Collections	8:00 am	All	2	T. Fitzgerald	Rocky Mount	Rae Helms
7/20/02	Major OSHA Issues and Personnel Matters	10:00 am	All	2			704-567-9374
7/20/02	Safety Issues and a Safety Program	12:00 pm	All	2			
7/27/02	What You Should Know About Family Business	9:00 am	All	2	T. Campbell	Charlotte	Rae Helms
7/27/02	What Do Family Members Want	11:00 am	All	2			704-567-9374
7/27/02	12 Steps to Successful Succession & Wealth & Giving	2:00 pm	All	2			
8/10/02	Contract Pitfalls – Liens and Collections	8:00 am	All	2	P. Safran	Winston-Salem	Rae Helms
8/10/02	Major OSHA Issues and Personnel Matters	10:00 am	All	2			704-567-9374
8/10/02	Safety Issues and a Safety Program	12:00 pm	All	2			
8/24/02	What You Should Know About Family Business	9:00 am	All	2	W. Rivers	Wilmington	Rae Helms
8/24/02	What Do Family Members Want	11:00 am	All	2			704-567-9374
8/24/02	12 Steps to Successful Succession & Wealth & Giving	2:00 pm	All	2			
9/21/02	Contract Pitfalls – Liens and Collections	8:00 am	All	2	T. Jones	N. Myrtle Beach	Rae Helms
9/21/02	Major OSHA Issues and Personnel Matters	10:00 am	All	2			704-567-9374
9/21/02	Safety Issues and a Safety Program	12:00 pm	All	2			
9/28/02	What You Should Know About Family Business	9:00 am	All	2	W. Rivers	Asheville	Rae Helms
9/28/02	What Do Family Members Want	11:00 am	All	2			704-567-9374
9/28/02	12 Steps to Successful Succession & Wealth & Giving	2:00 pm	All	2			

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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NCHACCA (con't.)							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
10/11/02	Contract Pitfalls – Liens and Collections	8:00 am	All	2	B. Hudson	Durham	Rae Helms
10/11/02	Major OSHA Issues and Personnel Matters	10:00 am	All	2			704-567-9374
10/11/02	Safety Issues and a Safety Program	12:00 pm	All	2			
10/19/02	Contract Pitfalls – Liens and Collections	8:00 am	All	2	P. Safran	Fayetteville	Rae Helms
10/19/02	Major OSHA Issues and Personnel Matters	10:00 am	All	2			704-567-9374
10/19/02	Safety Issues and a Safety Program	12:00 pm	All	2			
11/9/02	What You Should Know About Family Business	9:00 am	All	2	W. Rivers	RTP	Rae Helms
11/9/02	What Do Family Members Want	11:00 am	All	2			704-567-9374
11/9/02	12 Steps to Successful Succession & Wealth & Giving	2:00 pm	All	2			
11/23/02	Contract Pitfalls – Liens and Collections	8:00 am	All	2	P. Safran	Greensboro	Rae Helms
11/23/02	Major OSHA Issues and Personnel Matters	10:00 am	All	2			704-567-9374
11/23/02	Safety Issues and a Safety Program	12:00 pm	All	2			
12/14/02	Contract Pitfalls – Liens and Collections	8:00 am	All	2	T. Jones	Charlotte	Rae Helms
12/14/02	Major OSHA Issues and Personnel Matters	10:00 am	All	2			704-567-9374
12/14/02	Safety Issues and a Safety Program	12:00 pm	All	2			
12/28/02	What You Should Know About Family Business	9:00 am	All	2	T. Campbell	Winston-Salem	Rae Helms
12/28/02	What Do Family Members Want	11:00 am	All	2			704-567-9374
12/28/02	12 Steps to Successful Succession & Wealth & Giving	2:00 pm	All	2			
NC PETROLEUM MARKETERS ASSOCIATION							
9/09/02	Comfort Principles & Oil Heating System	8:00 am	All-H	2	T. Laughlin	Raleigh	Tim Laughlin
9/09/02	Fuel Pumps; Principles, Capacities, Testing, & etc.	10:00 am	All-H	2			919-782-4411
9/09/02	Primary Controls, Heat Sensing, Starting & Running Controls	1:00 pm	All-H	2			
9/09/02	Combustion Test Practice	3:00 pm	All-H	2			
9/12/02	Comfort Principles & Oil Heating System	8:00 am	All-H	2	T. Laughlin	Raleigh	Tim Laughlin
9/12/02	Fuel Pumps; Principles, Capacities, Testing, & etc.	10:00 am	All-H	2			919-782-4411
9/12/02	Primary Controls, Heat Sensing, Starting & Running Controls	1:00 pm	All-H	2			
9/12/02	Combustion Test Practice	3:00 pm	All-H	2			
NORTH CAROLINA PROPANE GAS ASSOCIATION							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
7/25/02	Commercial Gas Heaters	9:00 am	All	2	J. Taylor	Fayetteville	Michael Boggs
7/25/02	Propane Container Placement	1:00 pm	FP	2	M. Boggs		919-787-8485
8/8/02	Commercial Gas Heaters	9:00 am	All	2	J. Taylor	Tarboro	Michael Boggs
8/8/02	Propane Container Placement	1:00 pm	FP	2	M. Boggs		919-787-8485
8/22/02	Commercial Gas Heaters	9:00 am	All	2	J. Taylor	Lexington	Michael Boggs
8/22/02	Propane Container Placement	1:00 pm	FP	2	M. Boggs		919-787-8485
8/29/02	Commercial Gas Heaters	9:00 am	All	2	J. Taylor	Asheville	Michael Boggs
8/29/02	Propane Container Placement	1:00 pm	FP	2	M. Boggs		919-787-8485

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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NORTH CAROLINA PROFESSIONAL PLUMBERS ASSOCIATION (NCPA)

7/19/02	Business Law/ Contracts & Liens	8:00 am	All	2	A. Chapin	Greenville	Sandy Loflin
7/19/02	OSHA-Trenching & Excavating	10:15 am	All	2	M. Hall		800-231-6764
7/19/02	Commercial Gas Water Heaters	1:15 pm	All	2	J. Taylor		
7/19/02	2002 International Gas Code – NC Updates	8:15 am	FP	2	L. Prince		
7/19/02	2002 International Plumbing Code – Part I	10:30 am	All-P	2	R. Hardee		
7/19/02	2002 International Plumbing Code – Part II	1:30 pm	All-P	2	R. Hardee		
8/17/02	Business Law/ Contracts & Liens	8:00 am	All	2	A. Chapin	Asheville	Sandy Loflin
8/17/02	OSHA-Trenching & Excavating	10:15 am	All	2	M. Hall		800-231-6764
8/17/02	2002 Plumbing Code Updates	1:15 pm	All-P	2	G. Harvell		
8/17/02	2002 International Gas Code – NC Updates	8:15 am	FP	2	L. Prince		
8/17/02	2002 International Plumbing Code – Part I	10:30 am	All-P	2	R. Hardee		
8/17/02	2002 International Plumbing Code – Part II	1:30 pm	All-P	2	R. Hardee		
9/7/02	Business Law/ Contracts & Liens	8:00 am	All	2	A. Chapin	Fayetteville	Sandy Loflin
9/7/02	OSHA-Trenching & Excavating	10:15 am	All	2	M. Hall		800-231-6764
9/7/02	2002 International Plumbing Code Updates	1:15 pm	All-P & FP	2	L. Prince		
9/7/02	2002 International Gas Code – NC Updates	8:15 am	FP	2	L. Prince		
9/7/02	2002 International Plumbing Code – Part I	10:30 am	All-P	2	R. Hardee		
9/7/02	2002 International Plumbing Code – Part II	1:30 pm	All-P	2	R. Hardee		
10/12/02	Business Law/ Contracts & Liens	8:00 am	All	2	A. Chapin	Clemmons	Sandy Loflin
10/12/02	OSHA-Trenching & Excavating	10:15 am	All	2	M. Hall		800-231-6764
10/12/02	2002 Plumbing Code Updates	1:15 pm	All-P	2	G. Harvell		
10/12/02	2002 International Gas Code – NC Updates	8:15 am	FP	2	L. Prince		
10/12/02	2002 International Plumbing Code – Part I	10:30 am	All-P	2	R. Hardee		
10/12/02	2002 International Plumbing Code – Part II	1:30 pm	All-P	2	R. Hardee		

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2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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NCPPA (con't)							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
11/16/02	Business Law/ Contracts & Liens	8:00 am	All	2	A. Chapin	Clyde	Sandy Loflin
11/16/02	OSHA-Trenching & Excavating	10:15 am	All	2	M. Hall		800-231-6764
11/16/02	2002 Plumbing Code Updates	1:15 pm	All-P	2	G. Harvell		
11/16/02	2002 International Gas Code – NC Updates	8:15 am	FP	2	L. Prince		
11/16/02	2002 International Plumbing Code – Part I	10:30 am	All-P	2	R. Hardee		
11/16/02	2002 International Plumbing Code – Part II	1:30 pm	All-P	2	R. Hardee		
12/7/02	Business Law/ Contracts & Liens	8:00 am	All	2	A. Chapin	Asheboro	Sandy Loflin
12/7/02	OSHA-Trenching & Excavating	10:15 am	All	2	M. Hall		800-231-6764
12/7/02	2002 Plumbing Code Updates	1:15 pm	All-P	2	G. Harvell		
12/7/02	2002 International Gas Code – NC Updates	8:15 am	FP	2	L. Prince		Sandy Loflin
12/7/02	2002 International Plumbing Code – Part I	10:30 am	All-P	2	R. Hardee		800-231-6764
12/7/02	2002 International Plumbing Code – Part II	1:30 pm	All-P	2	R. Hardee		
ROCKINGHAM COMMUNITY COLLEGE							
9/21/02	The Refrigeration Cycle	8:00 am	All-H	2	K. Sigman	Wentworth	Anne S. Lanning
9/21/02	Condenser Functions	10:00 am	All-H	2			336-342-4261
9/21/02	Operating at Other Than Design Conditions	1:00 pm	All-H	2			Ext. 2145
11/9/02	The Refrigeration Cycle	8:00 am	All-H	2	K. Sigman	Wentworth	Anne S. Lanning
11/9/02	Condenser Functions	10:00 am	All-H	2			336-342-4261
11/9/02	Operating at Other Than Design Conditions	1:00 pm	All-H	2			Ext. 2145
SOUTHEASTERN COMMUNITY COLLEGE							
9/21/02	ACCA-Residential System Design	8:00 am	H-3-I & II	2	K. Fairfax	Whiteville	Robert Brooks
9/21/02	Improving Your HVAC Skills	10:15 am	All –H	2			910-642-7141
9/21/02	Customer Relations	1:30 pm	All	2			Ext. 209
12/7/02	ACCA-Residential System Design	8:00 am	H-3-I & II	2	K. Fairfax	Whiteville	Robert Brooks
12/7/02	Improving Your HVAC Skills	10:15 am	All –H	2			910-642-7141
12/7/02	Customer Relations	1:30 pm	All	2			Ext. 209
SOUTH PIEDMONT COMMUNITY COLLEGE							
11/9/02	Residential Sys. Design-ACCA Manual J	8:00 am	H-3-I & II	2	P. Whitaker	Monroe	Sandy Huntley
11/9/02	Residential Sys. Design-ACCA Manual D	10:00 am	H-3-I & II	2			704-694-6505
11/9/02	Residential Sys. Design-ACCA Manual T	1:30 pm	H-3-I & II	2			

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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THE TECHNICAL TRAINING INSTITUTE							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
10/05/02	Major Changes 2002 NC Mechanical Code Part #1	9:00 am	All -H	2	M. Pratl	Winston Salem	Eva Pratl
10/05/02	Major Changes 2002 NC Mechanical Code Part #2	11:15 am	All -H	2			(919) 795-6710
10/05/02	Major Changes 2002 NC Mechanical Code Part #3	2:15 pm	All -H	2			
10/12/02	Managing Your Business Through Financial Knowledge	9:00 am	All	2	D. Dombrowski	Fayetteville	Eva Pratl
10/12/02	Financial Management – Profit & Loss	11:15 am	All	2			(919) 795-6710
10/12/02	Financial Management – Cost/Benefit Analysis	2:15 pm	All	2			
10/19/02	Major Changes 2002 NC Plumbing Code Part #1	9:00 am	All -P	2	M. Pratl	Raleigh	Eva Pratl
10/19/02	Major Changes 2002 NC Plumbing Code Part #2	11:15 am	All -P	2			(919) 795-6710
10/19/02	Review Changes 2002 NC Plumbing Code Part #3	2:15 pm	All -P	2			
10/26/02	Major Changes 2002 NC Plumbing Code Part #1	9:00 am	All -P	2	M. Pratl	Winston Salem	Eva Pratl
10/26/02	Major Changes 2002 NC Plumbing Code Part #2	11:15 am	All -P	2			(919) 795-6710
10/26/02	Review Changes 2002 NC Plumbing Code Part #3	2:15 pm	All -P	2			
11/02/02	Major Changes 2002 NC Mechanical Code Part #1	9:00 am	All -H	2	M. Pratl	Raleigh	Eva Pratl
11/02/02	Major Changes 2002 NC Mechanical Code Part #2	11:15 am	All -H	2			(919) 795-6710
11/02/02	Major Changes 2002 NC Mechanical Code Part #3	2:15 pm	All -H	2			
11/09/02	Managing Your Business Through Financial Knowledge	9:00 am	All	2	D. Dombrowski	New Bern	Eva Pratl
11/09/02	Financial Management – Profit & Loss	11:15 am	All	2			(919) 795-6710
11/09/02	Financial Management – Cost/Benefit Analysis	2:15 pm	All	2			
11/09/02	Major Changes 2002 NC Mechanical Code Part #1	9:00 am	All -H	2	M. Pratl	New Bern	Eva Pratl
11/09/02	Major Changes 2002 NC Mechanical Code Part #2	11:15 am	All -H	2			(919) 795-6710
11/09/02	Major Changes 2002 NC Mechanical Code Part #3	2:15 pm	All -H	2			
11/16/02	Major Changes 2002 NC Plumbing Code Part #1	9:00 am	All -P	2	M. Pratl	Rocky Mount	Eva Pratl
11/16/02	Major Changes 2002 NC Plumbing Code Part #2	11:15 am	All -P	2			(919) 795-6710
11/16/02	Review Changes 2002 NC Plumbing Code Part #3	2:15 pm	All -P	2			
12/07/02	Managing Your Business Through Financial Knowledge	9:00 am	All	2	D. Dombrowski	Winston Salem	Eva Pratl
12/07/02	Financial Management – Profit & Loss	11:15 am	All	2			(919) 795-6710
12/07/02	Financial Management – Cost/Benefit Analysis	2:15 pm	All	2			
12/07/02	Major Changes 2002 NC Mechanical Code Part #1	9:00 am	All -H	2	M. Pratl	Winston Salem	Eva Pratl
12/07/02	Major Changes 2002 NC Mechanical Code Part #2	11:15 am	All -H	2			(919) 795-6710
12/07/02	Major Changes 2002 NC Mechanical Code Part #3	2:15 pm	All -H	2			
12/14/02	Major Changes 2002 NC Plumbing Code Part #1	9:00 am	All -P	2	M. Pratl	Raleigh	Eva Pratl
12/14/02	Major Changes 2002 NC Plumbing Code Part #2	11:15 am	All -P	2			(919) 795-6710
12/14/02	Review Changes 2002 NC Plumbing Code Part #3	2:15 pm	All -P	2			
12/14/02	Managing Your Business Through Financial Knowledge	9:00 am	All	2	D. Dombrowski	Raleigh	Eva Pratl
12/14/02	Financial Management – Profit & Loss	11:15 am	All	2			(919) 795-6710
12/14/02	Financial Management – Cost/Benefit Analysis	2:15 pm	All	2			

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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WILKES COMMUNITY COLLEGE							
8/24/02	NC Plumbing Code-2002: Highlights	9:00 am	All-P	2	T. Pace	Wilkesboro	Calvin Dull
8/24/02	NC Fuel Gas Code – 2002: Highlights	11:00 am	All-P	2			336-838-6208
8/24/02	Contracting 101 – Basic Survival Tactics	2:00 pm	All	2			
9/14/02	NC Mechanical Code – 2002: Highlights	9:00 am	All-H	2	T. Pace	Wilkesboro	Calvin Dull
9/14/02	NC Fuel Gas Code – 2002: Highlights	11:00 am	All-P	2			336-838-6208
9/14/02	Contracting 101 – Basic Survival Tactics	2:00 pm	All	2			
12/7/02	Contracting 101 – Basic Survival Tactics	9:00 am	All	2	T. Pace	Wilkesboro	Calvin Dull
12/7/02	Workplace Safety	11:00 am	All	2			336-838-6208
12/7/02	Accessibility Code 2002 Vol. I-C	2:00 pm	All	2			
UMPIRE TECHNOLOGIES GROUP							
7/25/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Morehead City	John Turnage
7/25/02	Financial Statement Reporting, Analyzing Direct Labor, Allocating Expenses	10:00 am	All	2			919-624-3456
7/25/02	Relationship Between Income Statement, Balance Sheet, and Cash Flow Statement	1:00 pm	All	2			
7/26/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Morehead City	John Turnage
7/26/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456
7/26/02	Introduction of “Right J” Software	1:00 pm	All-H	2			
8/1/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Wilmington	John Turnage
8/1/02	Financial Statement Reporting, Analyzing Direct Labor, Allocating Expenses	10:00 am	All	2			919-624-3456
8/1/02	Relationship Between Income Statement, Balance Sheet, and Cash Flow Statement	1:00 pm	All	2			
8/2/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Wilmington	John Turnage
8/2/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456
8/2/02	Introduction of “Right J” Software	1:00 pm	All-H	2			
8/22/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Edenton	John Turnage
8/22/02	Financial Statement Reporting, Analyzing Direct Labor, Allocating Expenses	10:00 am	All	2			919-624-3456
8/22/02	Relationship Between Income Statement, Balance Sheet, and Cash Flow Statement	1:00 pm	All	2			
8/23/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Edenton	John Turnage
8/23/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456
8/23/02	Introduction of “Right J” Software	1:00 pm	All-H	2			
UMPIRE TECHNOLOGIES GROUP (con't)							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
9/12/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Greensboro	John Turnage
9/12/02	Financial Statement Reporting, Analyzing Direct Labor, Allocating Expenses	10:00 am	All	2			919-624-3456
9/12/02	Relationship Between Income Statement, Balance Sheet, and Cash Flow Statement	1:00 pm	All	2			
9/13/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Greensboro	John Turnage
9/13/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456
9/13/02	Introduction of “Right J” Software	1:00 pm	All-H	2			
9/26/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Garner	John Turnage

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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9/26/02	Financial Statement Reporting, Analyzing Direct Labor, Allocating Expenses	10:00 am	All	2			919-624-3456
9/26/02	Relationship Between Income Statement, Balance Sheet, and Cash Flow Statement	1:00 pm	All	2			
9/27/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Garner	John Turnage
9/27/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456
9/27/02	Introduction of "Right J" Software	1:00 pm	All-H	2			
10/10/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Concord	John Turnage
10/10/02	Financial Statement Reporting, Analyzing Direct Labor, Allocating Expenses	10:00 am	All	2			919-624-3456
10/10/02	Relationship Between Income Statement, Balance Sheet, and Cash Flow Statement	1:00 pm	All	2			
10/11/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Concord	John Turnage
10/11/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456
10/11/02	Introduction of "Right J" Software	1:00 pm	All-H	2			
10/17/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Greenville	John Turnage
10/17/02	Financial Statement Reporting, Analyzing Direct Labor, Allocating Expenses	10:00 am	All	2			919-624-3456
10/17/02	Relationship Between Income Statement, Balance Sheet, and Cash Flow Statement	1:00 pm	All	2			
10/18/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Greenville	John Turnage
10/18/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456
10/18/02	Introduction of "Right J" Software	1:00 pm	All-H	2			
10/24/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Durham	John Turnage
10/24/02	Financial Statement Reporting, Analyzing Direct Labor, Allocating Expenses	10:00 am	All	2			919-624-3456
10/24/02	Relationship Between Income Statement, Balance Sheet, and Cash Flow Statement	1:00 pm	All	2			
10/25/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Durham	John Turnage
10/25/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456
10/25/02	Introduction of "Right J" Software	1:00 pm	All-H	2			
11/7/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Fayetteville	John Turnage
11/7/02	Financial Statement Reporting, Analyzing Direct Labor, Allocating Expenses	10:00 am	All	2			919-624-3456
11/7/02	Relationship Between Income Statement, Balance Sheet, and Cash Flow Statement	1:00 pm	All	2			
11/8/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Fayetteville	John Turnage
11/8/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456
11/8/02	Introduction of "Right J" Software	1:00 pm	All-H	2			
11/14/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Fletcher	John Turnage
11/14/02	Financial Statement Reporting, Analyzing Direct Labor, & ETC.	10:00 am	All	2			919-624-3456
11/14/02	Relationship Between Income Statement, Balance Sheet, & ETC.	1:00 pm	All	2			
11/15/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Fletcher	John Turnage
11/15/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456
11/15/02	Introduction of "Right J" Software	1:00 pm	All-H	2			
11/21/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Greensboro	John Turnage
11/21/02	Financial Statement Reporting, Analyzing Direct Labor, & ETC.	10:00 am	All	2			919-624-3456
11/21/02	Relationship Between Income Statement, Balance Sheet, & ETC.	1:00 pm	All	2			

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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UMPIRE TECHNOLOGIES GROUP (con't)								
11/22/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Greensboro	John Turnage	
11/22/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456	
11/22/02	Introduction of "Right J" Software	1:00 pm	All-H	2				
12/3/02	Accounting-Profit Is Not A Dirty Word	8:00 am		2	J. Turnage	Asheboro	John Turnage	
12/3/02	Financial Statement Reporting, Analyzing Direct Labor, & ETC.	10:00 am	All	2			919-624-3456	
12/3/02	Relationship Between Income Statement, Balance Sheet, & ETC.	1:00 pm	All	2				
12/4/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Asheboro	John Turnage	
12/4/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456	
12/4/02	Introduction of "Right J" Software	1:00 pm	All-H	2				
12/12/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Durham	John Turnage	
12/12/02	Financial Statement Reporting, Analyzing Direct Labor, & ETC.	10:00 am	All	2			919-624-3456	
12/12/02	Relationship Between Income Statement, Balance Sheet, & ETC>	1:00 pm	All	2				
12/13/02	Fundamentals of Heat Transfer	8:00 am	All-H	2	J. Turnage	Durham	John Turnage	
12/13/02	Manual Load Calculation of a Structure	10:00 am	All-H	2			919-624-3456	
12/13/02	Introduction of "Right J" Software	1:00 pm	All-H	2				
12/17/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Garner	John Turnage	
12/17/02	Financial Statement Reporting, Analyzing Direct Labor, & ETC.	10:00 am	All	2			919-624-3456	
12/17/02	Relationship Between Income Statement, Balance Sheet, & ETC.	1:00 pm	All	2				
12/18/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Garner	John Turnage	
12/18/02	Financial Statement Reporting, Analyzing Direct Labor, & ETC.	10:00 am	All	2			919-624-3456	
12/18/02	Relationship Between Income Statement, Balance Sheet, & ETC.	1:00 pm	All	2				
12/19/02	Accounting-Profit Is Not A Dirty Word	8:00 am	All	2	J. Turnage	Garner	John Turnage	
12/19/02	Financial Statement Reporting, Analyzing Direct Labor, & ETC.	10:00 am	All	2			919-624-3456	
12/19/02	Relationship Between Income Statement, Balance Sheet, & ETC.	1:00 pm	All	2				
WAKE TECHNICAL COMMUNITY COLLEGE								
7/13/02	House Leakage – Stack Effect, Wind, & etc.	8:00 am	All-H	2	J. Orum	Raleigh	Duncan Shaw	
7/13/02	New Construction Duct Sealing	10:30 am	All-H	2			919-662-3438	
7/13/02	Residential Air Balance	2:00 pm	All-H	2				
7/20/02	International Plumbing Code – Part I	8:00 am	All-P	2	R. Doby	Raleigh	Duncan Shaw	
7/20/02	International Plumbing Code – Part II	10:30 am	All-P	2			919-662-3438	
7/20/02	International Plumbing Code – Part III	2:00 pm	All-P	2				
8/17/02	House Leakage – Stack Effect, Wind, & etc.	8:00 am	All-H	2	J. Orum	Raleigh	Duncan Shaw	
8/17/02	New Construction Duct Sealing	10:30 am	All-H	2			919-662-3438	
8/17/02	Residential Air Balance	2:00 pm	All-H	2				
11/2/02	House Leakage – Stack Effect, Wind, & etc.	8:00 am	All-H	2	J. Orum	Raleigh	Duncan Shaw	
11/2/02	New Construction Duct Sealing	10:30 am	All-H	2			919-662-3438	
11/2/02	Residential Air Balance	2:00 pm	All-H	2				
11/9/02	House Leakage – Stack Effect, Wind, & etc.	8:00 am	All-H	2	J. Orum	Raleigh	Duncan Shaw	
11/9/02	New Construction Duct Sealing	10:30 am	All-H	2			919-662-3438	
11/9/02	Residential Air Balance	2:00 pm	All-H	2				
12/7/02	House Leakage – Stack Effect, Wind, & etc.	8:00 am	All-H	2	J. Orum	Raleigh	Duncan Shaw	
12/7/02	New Construction Duct Sealing	10:30 am	All-H	2			919-662-3438	
12/7/02	Residential Air Balance	2:00 pm	All-H	2				
12/14/02	House Leakage – Stack Effect, Wind, & etc.	8:00 am	All-H	2	J. Orum	Raleigh	Duncan Shaw	
12/14/02	New Construction Duct Sealing	10:30 am	All-H	2			919-662-3438	
12/14/02	Residential Air Balance	2:00 pm	All-H	2				

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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SOUTHWESTERN COMMUNITY COLLEGE							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
7/9/02	Water Supply and Distribution	6:00 pm	P-1, P-2	2	J. Morgan	Sylva	Scott Sutton
7/16/02	Sanitary Drainage	6:00 pm	P-1, P-2	2	J. Morgan	Sylva	828-488-6413
7/23/02	Vents	6:00 pm	P-1, P-2	2	J. Morgan	Sylva	Scott Sutton
8/6/02	Fuel Gas General Regulations	6:00 pm	All-H, FP	2	J. Morgan	Sylva	828-488-6413
8/13/02	Gas Piping Installations	6:00 pm	All-P	2	J. Morgan	Sylva	
8/20/02	Gas Appliances - Specific	6:00 pm	All-H, FP	2	J. Morgan	Sylva	
9/3/02	Mechanical General Regulations	6:00 pm	All-H, FP	2	J. Morgan	Sylva	Scott Sutton
9/10/02	Exhaust Systems	6:00 pm	All-H	2	J. Morgan	Sylva	828-488-6413
9/17/02	Duct Systems	6:00 pm	All-H	2	J. Morgan	Sylva	
CITY OF WILSON							
11/12/02	Bath/Exhaust Fans, Duct Detectors, Smoke Venting	6:00 pm	All-H	2	T. Holloman	Wilson	Tim Holloman
11/12/02	Combustion & Makeup Air, Sizing of Gas Pipe, & Etc.	8:00 pm	All-H	2			252-399-2210
11/13/02	Joints, Cleanouts, Vents, & Materials	6:00 pm	All-P	2	T. Holloman	Wilson	Tim Holloman
11/13/02	Accessibility Issues & Calculation of Fixture Units	8:00 pm	All-P	2			252-399-2210
THE TRANE COMPANY							
9/10/02	Understanding Refrigerants & The Evaporator Circuit	9:00 am	All-H	2	M. Prokup	Charlotte	Kim Miller
9/10/02	The Condenser Circuit & Practical Troubleshooting	11:00 am	All-H	2			704-523-0040
9/10/02	Diagnostic Test Session	1:00 pm	All-H	2			
11/12/02	Labor Management – Financial Impact	8:00 am	All	2	B. Burnett	Greensboro	Kim Miller
11/12/02	Change Orders & Call Backs/Job Set-up	10:00 am	All	2			704-523-0040
11/12/02	Estimating & Proposal Presentation	12:30 pm	All	2			
11/12/02	Layout, Dispatching & Scheduling	2:30 pm	All	2			
11/13/02	Material Staging & Inventory Management	8:00 am	All	2	B. Burnett	Greensboro	Kim Miller
11/13/02	Servicing the Customer	10:00 am	All	2			704-523-0040
11/13/02	Commercial Service	12:30 pm	All	2			
11/13/02	Billing & Revenue Recognition	2:30 pm	All	2			
GRADY HARLOW INC.							
8/3/03	Drainage	8:00 am	All-P	2	M. Harlow	Wilmington	Michael Harlow
8/3/03	Indirect Waste and Vents	10:15 am	All-P	2			919-562-1120
8/3/03	Water Heaters & Fuel Piping	1:30 pm	All-P	2			
10/26/02	Drainage	8:00 am	All-P	2	M. Harlow	Raleigh	Michael Harlow
10/26/02	Indirect Waste and Vents	10:15 am	All-P	2			919-562-1120
10/26/02	Water heaters & Fuel Piping	1:30 pm	All-P	2			
7/13/02	Refrigerant Piping Guidelines	8:00 am	H-2, H-3	2	D. Cameron	Raleigh	David Cameron
7/13/02	Evacuation & Dehydration	10:15 am	H-2, H-3	2			919-832-4828
7/13/02	System Charging	1:30 pm	H-2, H-3	2			
8/3/02	Refrigerant Piping Guidelines	8:00 am	H-2, H-3	2	D. Cameron	Raleigh	David Cameron
8/3/02	Evacuation & Dehydration	10:15 am	H-2, H-3	2			919-832-4828
8/3/02	System Charging	1:30 pm	H-2, H-3	2			
9/1/02	Refrigerant Piping Guidelines	8:00 am	H-2, H-3	2	D. Cameron	Raleigh	David Cameron
9/1/02	Evacuation & Dehydration	10:15 am	H-2, H-3	2			919-832-4828
9/1/02	System Charging	1:30 pm	H-2, H-3	2			
10/5/02	Refrigerant Piping Guidelines	8:00 am	H-2, H-3	2	D. Cameron	Raleigh	David Cameron
10/5/02	Evacuation & Dehydration	10:15 am	H-2, H-3	2			919-832-4828
10/5/02	System Charging	1:30 pm	H-2, H-3	2			

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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TRAINING CONCEPTS, INC. (con't.)							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
10/23/02	Refrigerant Piping Guidelines	8:00 am	H-2, H-3	2	D. Cameron	Raleigh	David Cameron
10/23/02	Evacuation & Dehydration	10:15 am	H-2, H-3	2			919-832-4828
10/23/02	System Charging	1:30 pm	H-2, H-3	2			
11/2/02	Refrigerant Piping Guidelines	8:00 am	H-2, H-3	2	D. Cameron	Raleigh	David Cameron
11/2/02	Evacuation & Dehydration	10:15 am	H-2, H-3	2			919-832-4828
11/2/02	System Charging	1:30 pm	H-2, H-3	2			
11/16/02	Refrigerant Piping Guidelines	8:00 am	H-2, H-3	2	D. Cameron	Raleigh	David Cameron
11/16/02	Evacuation & Dehydration	10:15 am	H-2, H-3	2			919-832-4828
11/16/02	System Charging	1:30 pm	H-2, H-3	2			
12/1/02	Refrigerant Piping Guidelines	8:00 am	H-2, H-3	2	D. Cameron	Raleigh	David Cameron
12/1/02	Evacuation & Dehydration	10:15 am	H-2, H-3	2			919-832-4828
12/1/02	System Charging	1:30 pm	H-2, H-3	2			
HAYWOOD COMMUNITY COLLEGE							
7/13/02	Plumbing Contractor's Code Update Part I	8:00 am	All-P	2	J. Rogers	Clyde	Rinda Green
7/13/02	Plumbing Contractor's Code Update Part II	10:15 am	All-P	2			828-627-4628
7/13/02	Plumbing Contractor's Code Update Part III	1:30 pm	All-P	2			
7/20/02	Mechanical Contractor's Code Update Part I	8:00 am	All-H	2	J. Rogers	Clyde	Rinda Green
7/20/02	Mechanical Contractor's Code Update Part II	10:15 am	All-H	2			828-627-4628
7/27/02	Gas Contractor's Code Update Part I	8:00 am	All	2	J. Rogers	Clyde	Rinda Green
7/27/02	Gas Contractor's Code Update Part II	10:15 am	All	2			828-627-4628
7/27/02	Gas Contractor's Code Update Part III	1:30 pm	All	2			
MECHANICAL CONTRACTORS ASSOCIATION OF SOUTH CAROLINA							
9/4/02	Hydronic Systems One	9:00 am	All-H	2	H. King	Columbia, SC	Mona Flowers
9/4/02	Hydronic Systems Two I	1:00 pm	All-H	2			803-772-7834
10/2/02	Management Skills for New Supervisors Part I	9:00 am	All	2	M.J. Frame	Columbia, SC	Mona Flowers
10/2/02	Management Skills for New Supervisors Part II	2:00 pm	All	2			803-772-7834
10/16/02	Hydronic Systems One	9:00 am	All-H	2	H. King	Columbia, SC	Mona Flowers
10/16/02	Hydronic Systems Two	1:00 pm	All-H	2			803-772-7834
11/6/02	Steam Systems – Part I	9:00 am	All-H	2	H. King	Columbia, SC	Mona Flowers
11/6/02	Steam Systems – Part II	1:00 pm	All-H	2			803-772-7834
ENERGY MARKETING SERVICES							
7/20/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	Greenville	John White
7/20/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
7/20/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
8/3/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	New Bern	John White
8/3/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
8/3/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
8/10/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	Edenton	John White
8/10/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
8/10/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
8/24/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	Rocky Mount	John White
8/24/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
8/24/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			

2002 SUMMER/FALL CONTINUING EDUCATION SCHEDULE

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ENERGY MARKETING SERVICES (con't.)							
DATE	COURSE TITLE	TIME	LIC. TYPE	CE HRS.	INSTRUCTOR	LOCATION	CONTACT
9/7/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	Elizabeth City	John White
9/7/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
9/7/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
9/21/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	Kinston	John White
9/21/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
9/21/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
9/30/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	Goldsboro	John White
9/30/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
9/30/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
10/5/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	Greenville	John White
10/5/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
10/5/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
10/19/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	New Bern	John White
10/19/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
10/19/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
10/26/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	Nags Head	John White
10/26/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
10/26/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
11/2/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	Morehead City	John White
11/2/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
11/2/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
12/7/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	Wilson	John White
12/7/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
12/7/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
12/14/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	Rocky Mount	John White
12/14/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
12/14/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
12/21/02	Manual J – Basic Principles	9:00 am	All-H	2	J. White	Greenville	John White
12/21/02	Selecting and Sizing Equipment	11:00 am	All-H	2			252-758-1549
12/21/02	Cost Analysis – Standard vs. High Efficient Equip. & Sys.	2:00 pm	All-H	2			
BLUE RIDGE COMMUNITY COLLEGE							
7/20/02	Overview International Plumbing Code – Chapters 1-5	8:00 am	All-P	2	S. Caraker	Flat Rock	John Boyd
7/20/02	Overview International Plumbing Code – Chapters 6-8	10:30 am	All-P	2		Flat Rock	828-694-1766
7/20/02	Overview International Plumbing Code – Chapters 9-10	1:30 pm	All-P	2		Flat Rock	
8/17/02	Overview International Plumbing Code – Chapters 1-5	8:00 am	All-P	2	S. Caraker	Flat Rock	John Boyd
8/17/02	Overview International Plumbing Code – Chapters 6-8	10:30 am	All-P	2		Flat Rock	828-694-1766
8/17/02	Overview International Plumbing Code – Chapters 9-10	1:30 pm	All-P	2		Flat Rock	

SMILEY, WILLIAM T. d/b/a

SMILEY'S AIR CONDITIONING & HEATING

Allegations of contempt of prior order of the Court in that the defendant contracted to install and installed heating systems without a license.

Order of contempt filed 2/1/02 finding the Defendant in contempt of prior order of the Court, fining him in the amount of \$200.00 and sentencing him to be incarcerated in the Northampton County Jail for one weekend.

SNYDER, CHARLES E. Franklin, NC

12/27/01

Heating contracting without license.

Permanent Injunction Judgment filed with the Court on 2/12/02 enjoining the Defendant from engaging in business as a plumbing, heating, or fire sprinkler contractor until properly licensed.

THOMASON, WILLIAM GORDON Mauldin, SC
License #20245 9/18/01

Allegations of misconduct in the business of plumbing contracting in that respondent permitted the use of his license by an unlicensed individual in connection with acquisition of permit for performance of a contract even though respondent was not a party to the contract.

Final Order issued by the Board on 2/13/02 suspending the license of respondent for 2 years.

Publisher Sandra O'Brien, Executive Director

Editor Scott Waterhouse

**STATE BOARD OF EXAMINERS OF
PLUMBING, HEATING & FIRE
SPRINKLER CONTRACTORS**

**1109 Dresser Court
Raleigh, NC 27609**



ATTENTION LICENSEES
We've Moved

NEW ADDRESS:

**State Board of Examiners of
Plumbing, Heating & Fire Sprinkler Contractors
1109 Dresser Court
Raleigh, NC 27609**

CHANGE OF ADDRESS

The Board's rule, 21 NCAC 50.0408 (c) reads as follows:

(C) The licensee shall notify the Board of any change in location or mailing address from that shown on the last license renewal invoice within 30 days after the change takes place.

The above rule requires you to notify the Board of a change of address within 30 days after the change takes place. Compliance with this rule benefits you and the Board. The Board is able to keep its records up to date if you notify the office of an address change. The Board is also able to keep you up to date if it has your correct address. Through the newsletter, the Board notifies you of new requirements for licensed contractors, code amendments, educational opportunities, public rule hearings that may affect you, and much more. The newsletter will not get to you if the Board does not have your correct address. The Board notifies you when your license is going to expire and sends you an invoice. This invoice will not get to you if the Board does not have your correct address.

Changes must be in writing with your signature.

Phone: 919/875-3612

Email: info@nclicensing.org

Fax: 919/875-3616

Web: www.nclicensing.org

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