

# METROPOLITAN NY CHAPTER Refrigeration Service Engineers Society

Continued Education for the HVAC/R Industry  
"Better Service Through Knowledge"

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September 2009

[WWW.METRONYRSES.ORG](http://WWW.METRONYRSES.ORG)



## In Memory of September 11, 2001

There were no birds singing, no sun today to chase the  
gloom away. Only the sound of silence, and despair,  
as debris fell from the air.

The sounds of people crying, of men and women dying  
filled the air, so today I write this to show that I care.

As you read this, say a prayer for  
the people that had their lives changed today,  
Maybe if enough people read this,  
this terrible violence will go away.

Stopped, not by more violence or bloodshed, but by peo-  
ple's love instead.

And for every one person that is affected by this, I hope to  
see a thousand people that care, just as much as me.

This is my poem, of love, not Hate,  
of kind words and hopes to share...  
so please, show how much you care.

Read this poem, remind yourself that you were lucky,  
then take a moment of silence to remember  
all that perished in the senseless violence.

## TEST YOUR KNOWLEDGE Air Conditioning Preventive Maintenance

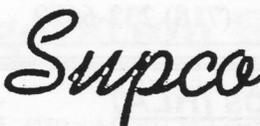
Answer the following questions as they relate to air  
conditioning preventive maintenance.

1. *True or False.* You cannot easily test for acid or moisture in a refrigeration system.
2. *True or False.* Before measuring the pressures and temperatures of an air conditioning system, you should let the system run for about 15 minutes.

3. *True or False.* It is a good idea to check with the customer, before starting a preventive maintenance inspection, to find out if there are any recent problems with the system.
4. *True or False.* If the fins of a condenser are pushed in, they cannot be straightened out.
5. *True or False.* When cleaning a condenser coil it is not recommended to backwash the condenser coil.
6. *True or False.* It is a good practice to check for shrubs and plants that could restrict the airflow on an outdoor condensing unit.
7. *True or False.* When using the superheat method to check a refrigerant charge of a system, the superheat measured should be within plus or minus 5°F of the required superheat.
8. When using the subcooling method to check a refrigerant charge of a system, the amount of subcooling measured should be within plus or minus 5°F of the required subcooling.
9. *True or False.* It is a good practice to clean your work area when you are completed with your preventive maintenance inspection.
10. *True or False.* 24 volts is a normal control voltage for most residential air conditioning systems.
11. You are checking a residential air conditioning system and you record an 80 psig suction pressure, a suction line temperature of 77°F, an indoor wet-bulb temperature of 75°F entering the evaporator, and an outdoor dry-bulb temperature of 90°F. With this information you determine the refrigerant charge is okay.
12. You are checking a residential air conditioning system and you record a 57 psig suction pressure, a suction line temperature of 59°F, an indoor wet-bulb temperature of 58°F entering the evaporator, and an outdoor dry-bulb temperature of 60°F. With this information you determine the refrigerant charge is okay.

Answers to TEST YOUR KNOWLEDGE

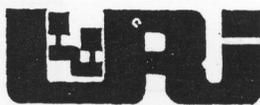
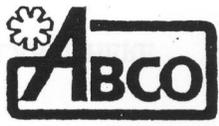
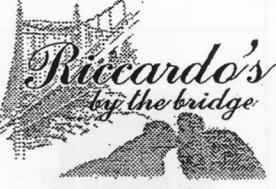
1) False; 2) True; 3) True; 4) False; 5) False; 6) True; 7) True; 8) False; 9) True; 10) True; 11) True; 12) False

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# COMING EVENTS

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If you have any suggestions or requests for future programs, please let us know!

<p><b>SEE US 1<sup>st</sup></b></p>  <p><b>WHOLESALE DISTRIBUTORS</b> Refrigeration/AC/Heating</p> <p><b>BROOKLYN (718) 257-4039</b> 99-03 Foster Ave.</p> <p><b>JAMAICA (718) 526-0330</b> 139-29 Queens Blvd.</p> <p><b>MT. VERNON (914) 668-3631</b> 551 S. Columbus Ave.</p> 	<p><b>Fire Ice Mechanical Inc.</b></p> <p><i>HVAC/R Service Contractors</i></p> <p><b>KURT J. EGGERT</b></p> <p>Vogt Tube-Ice Authorized Dealer/ Sales &amp; Factory Certified Technicians Goldenrod Distributor;</p> <p>The Newest in Water Treatment Technology Air Conditioning &amp; Refrigeration</p> <p>Tel (718) 631-1503 Fax (718) 279-4686</p>	 <p><b>COMPRESSORS</b></p> <p><b>UNITED REBUILDERS, INC.</b> (URI)</p> <p>405-A Allentown Drive Allentown, PA 18109 (484) 223-3265 (800) 964-0888 FAX (484) 223-3260</p>	 <p>49-70 31st STREET L.I.C., NY 11101 Phone: 718-937-9000 Fax: 718-392-1296 1-800-937-9000</p>  <p><b>Suva</b></p>	 <p><b>WEDDINGS</b> <b>OUR SPECIALTY</b></p> <p><i>Special Attention Given To</i> Dinner Dances • Company Parties Cocktail Parties • Business Meetings Fund Raisers • Fashion Shows Engagement Parties • Christenings <i>Special Discounts Given to Senior Citizens</i></p> <p><i>Riccardo's by the bridge</i></p> <p>21-01 24th Avenue, Astoria, NY 11102 718 721-7777 ANTHONY M. CORBISIERO RICHARD F. CORBISIERO</p>
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# Metro NY Chapter RSES HVAC Training Courses

The Metropolitan New York Chapter RSES will offer the RSES Technical Institute Courses – 1 & 2 on Tuesday & Thursday evenings, starting September 22nd in Long Island City, New York

**Dates:** For 12 weeks on Tuesdays & Thursdays

9/22 & 9/24    9/29 & 10/1    10/6 & 10/8  
10/13 & 10/15    10/20 & 10/22    10/27 & 10/29  
3/10 & 3/12    11/3 & 11/5    11/10 & 11/12  
11/17 & 19    11/24    12/1

**Time:** 6:00 PM – 10:00 PM

**Location:** Long Island City High School  
14-30 Broadway  
Long Island City, NY 11106

**Cost for Course 1 or 2:**

\$899.00 for RSES members  
\$999.00 non-RSES members (also includes 1 year membership in RSES)

**Includes:** Technical Institute 1 or 2 course manual, course tuition, Certificate of Completion after passing final exam, 72 hours toward NATE Recertification, for those eligible.

Register by September 10<sup>th</sup> by mailing or emailing the form below

FOR ADDITIONAL INFORMATION VISIT:

<http://www.metronyrses.org>

or Email: [school@metronyrses.org](mailto:school@metronyrses.org)

or Phone Stan Hollander: 718 232-6679

by Mail: Metro NY Chapter RSES

c/o Stan Hollander, 1837 61<sup>st</sup> Street, Brooklyn, NY 11204

--Checks and Charges Welcome --

Please make checks payable to "Metro NY RSES"



## TRAINING COURSE OVERVIEWS

### TECHNICAL INSTITUTE COURSE 1:

This course begins with a comprehensive introduction to refrigeration and air conditioning. Topics covered include: basic physics, major system components including hermetic, semi-hermetic and open compressors, condensers, evaporators and refrigerant metering devices. It also covers the fundamental concepts of electricity and magnetism as they pertain to resistors, resistance, conductors, power supplies, circuit protection devices and transformers. Detailed information on lessons and content for Course 1 can be found at:

<http://metronyrses.org/ti1.html>

### TECHNICAL INSTITUTE COURSE 2:

Beginning with tools-of-the-trade this course covers refrigeration system accessories, desiccants and driers, defrosting methods, refrigeration system controls and piping. It also includes instruction on compressor replacement and system evacuation, electric motors in refrigeration systems, motor capacitors and protectors, thermostats, relays, contactors and starters, test equipment and troubleshooting, pressure and enthalpy diagrams, psychrometrics, heat transfer and estimating heat loads, residential air conditioning, humidification and a review of safety codes. Detailed information on lessons and content for Course 2 can be found at:

<http://metronyrses.org/ti2.html>

----- RETURN THIS SECTION WITH PAYMENT - BE SURE TO KEEP COPY FOR YOUR RECORDS -----

### REGISTRATION FORM

Name: \_\_\_\_\_ Company: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

Check / Credit Card Number: \_\_\_\_\_ Exp: \_\_\_\_\_

Name on Credit Card: \_\_\_\_\_

Which course are you registering for? Technical Institute Course 1 or 2: Choose only one \_\_\_\_\_

Are you an RSES Member: If Yes, RSES Membership Number: \_\_\_\_\_

Please register by September 10<sup>th</sup> - space is limited.

Check or Credit Card Accepted for Payment

Make check to "Metro NY RSES" and mail w/ registration to: Metro NY RSES, c/o Stan Hollander, 1837 61<sup>st</sup> Street, Brooklyn, NY 11204

To register by Email send this form with Credit Card information to [school@metronyrses.org](mailto:school@metronyrses.org)

**METROPOLITAN NEW YORK CHAPTER, RSES**

For Information Call: Stan Hollander, CMS (718) 232-6679

**Wednesday September 9th, 2009 at 7:30pm**

at

**RICCARDO'S**

**21-01 24th Avenue, Astoria NY 11102**

**Increasing Your Profits  
By  
Understanding Your True Costs**

Example: Knowing Your Costs

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