JTAC Program Registration Form
2008-2009

or Phone	or Fax	or Mail
Your Request to: (905) 790-9662 or 1-888-305-9993	Completed Registration form to: (905) 790-9711	Completed Registration form to: 419 Deerhurst Dr. Brampton, Ont. L6T 5K3

Please indicate your selections in order of preference. (i.e. 1, 2, 3 etc.)

Program Selection	Description	Dates & Locations	Choice
R-410A Certification Program **And a look at the new refrigerants replacing R-22 & R 134a** **A certificate will be issued**	**Manufacturers and Industry are requiring a specific training for R410A** **Topics** • **Safety and handling** • **Physical properties** • **System applications** • **Tools and equipment**	**Thursday Nights** **On-Demand** **Call to register** **6:30pm to 9:30pm** **@ T.C. Brampton**	
New **LEED** **LEED what does it mean to you and why should you care?** **This is a pre-requisite to additional LEED courses**	**An introduction to:** **The LEED rating systems will be the subject of this seminar.** • **What is LEED?** • **Who is involved?** • **Why is it used?** • **When is the rating system used?** • **And where is it going?** • **These are a few of the topics to be covered.**	**Saturday Only** **Saturday** **October 25, 2008** **8:30am to 4:30pm** **@ T.C. Brampton**	
New **Commissioning An Overview** **The ASHRAE Commissioning System**	**The process will be examined to gain a familiarity with the application in new construction and existing buildings.** **As part of the LEED rating system, commissioning is becoming a regular part of the HVAC/R industry.** **The student will be provided with an overview of:** • **ASHRAE Guideline 0 – 2005** • **The Commissioning Process** • **Commissioning is a quality-focused process which enhances the delivery of your projects.**	**Saturday Only** **Saturday** **November 1, 2008** **8:30am to 4:30pm** **@ T.C. Brampton**	

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New **Thermography** **Learn what your infrared thermometer is seeing**	**Using the thermal imaging camera an understanding of infrared temperature measurement will be examined.** **Thermography has various uses within the HVAC/R industry and an overview of these various possibilities will be presented.** **From a basic understanding of thermography and infrared imaging to proposed maintenance practices, the student will gain an understanding of the power of thermal imaging technology.**	**Saturday Only** **Saturday** **December 6, 2008** **8:30am to 4:30pm** **@ T.C. Brampton**	
New **Renewable Energy Systems** **A seminar covering the various renewable systems that are being used in the construction of high performance buildings.**	**As energy costs continue to rise, more and more renewable energy systems are being installed.** **Learn about the aspects of these various systems and see several of renewable systems in operation at the Training Center.** **As an introduction, this seminar will prepare the student for continued pursuit of knowledge in this new emerging field.**	**Week-End** **Saturday & Sunday** **January 17 & 18, 2009** **8:30am to 4:30pm** **@ T.C. Brampton**	
***New* - Nights** **Motor Technology and The ECM** **(electronic commutative motor)**	**This is the Fractional Horse Power replacement of the future** **A complete review of motor technologies and starting techniques.** **Understanding and working with the ECM variable speed system.**	**Thursdays** **4-nights** **6:30pm to 9:30pm** **Starting** **March 5, 2009** **@ T.C. Brampton** **Schedule to be supplied**	
New **Practical PID Control Commissioning**	**This is a one day intense study of PID (Proportional, Integral, Derivative)** • **Definitions** • **Applications** • **Tuning** • **Troubleshooting**	**Saturday Only** **November 29, 2008** **8:30am to 4:30pm** **@ T.C. Brampton**	

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Indoor Air Quality Control (IAQ)	**An overview of the "Sick Building Syndrome" How to apply CO_2 sensors to economizer routines. Applications of controls**	**Week-end** Saturday & Sunday April 4 & 5, 2009 8:30am to 4:30pm @ T.C. Brampton	
Electrical Troubleshooting Upgrade Program	**This course will review the process to use electrical HVACR diagrams in troubleshooting systems. Diagnostic equipment and their applications will be studied.** ***Pre-requisite: 3rd year Apprentice***	**Week-end** Saturday & Sunday November 15 & 16, 2008 8:30am to 4:30pm @ T.C. Brampton	
		Week-end Saturday & Sunday February 21 & 22, 2009 8:30am to 4:30pm @ T.C. Brampton	
U.A. Star HVACR Certification	**This is a preparation exam course. The Study Guide curriculum will be reviewed to prepare the participant to write the exam**	**Wednesday Nights** Starting March 4, 2009 **6 Nights** 6:30pm to 9:30pm @ T.C. Brampton	
Chiller O&M *20 Students max.*	**Operation and Maintenance of Chillers** Both Centrifugal and Positive Displacement Systems	**Week-End** Saturday & Sunday April 18 & 19, 2009 8:30am to 4:30pm @ T.C. Brampton	
Purge O & M *12 Students max.*	**Operation and Maintenance of Purge Units for Low Pressure Chillers**	**Week-End** Saturday & Sunday January 17 & 18, 2009 8:30am to 4:30pm @ T.C. Brampton	
Motors & Pumps Service & Repair *12 Students Max*	**Procedures used in field repairing motors and pumping systems.**	**Saturday Only** January 31, 2009 8:30am to 4:30pm @ T.C. Brampton	

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Basic Electronic Theory ***Recommended before the EMC course***	**It's designed to present the basic fundamentals of Electronics pertaining to the HVAC & R Industry. Some hands-on lab work will be included**	**Wednesday Nights** **6-nights** **6:30pm to 9:30pm** **Starting January 14, 2009 @ T.C. Brampton Schedule to be supplied**	
Electronic & Microprocessor Controls **32 hours** **Certificate Course** ****This Course is a pre-requisite to many DDC and BAS courses****	This program is specifically designed for Refrigeration and Air-Conditioning Mechanics and Apprentices who want to develop their skills to work confidently in the Building Automation Technology Field. The program provides "hands-on" experience of electronic and microprocessor controls to control the Building Management Systems In addition to conventional controls, this program covers the rapidly growing technology of microprocessor based controls. Participants will learn industry terminology, application of analog and digital inputs, outputs and installation and application of devices. "Hands-on" experience will include configuring and programming of specific control manufacturer software and firmware.	**Multiple Week-Ends** **2-Saturdays & Sundays** **November 29 & 30, 2008 and December 13 & 14, 2008** **8:30am to 4:30pm** **@ T.C. Brampton**	
Honeywell Controls & LCBS System Basics ***12 Students Max***	**Manufacturer Specific Training** • Create a network • Select components • Menus • Design a network • XL 15 • XL10 • Actuators • XL15C • Remote Applications	**Week-End** **Saturday & Sunday November 15 & 16, 2008 8:30am to 4:30pm @ T.C. Brampton**	

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Lennox "L" Series Integrated Modular Control ***12 Students Max***	**Manufacturer Specific Training** • IMC Basics • IMC Configuration • Errors & Diagnostics	**Monday Nights** **December 8 & 15, 2008** **6:30pm to 9:30pm** **@ T.C. Brampton**	
Trane Tracker Control Systems ***12 Students Max***	**Manufacturer Specific Training** • Installation/Operation • Rover Software • Configuration & Set-up	**Week-End** **March 7 & 8, 2009** **8:30am to 4:30pm** **@ T.C. Brampton**	
Johnson Controls UNT Controller Basics ***12 Students Max***	**Manufacturer Specific Training** • Question and answer sessions • Controller types • Systems • Networking	**Week-End** **Saturday & Sunday** **November 1 & 2, 2008** **8:30am to 4:30pm** **@ T.C. Brampton**	
York AutoZone Control system ***12 Students Max***	**Manufacturer Specific Training** • System/Zone manager • Comm Link II/Remote Link • Controllers • Dampers	**Saturday Only** **Saturday** **April 18, 2009** **8:30am to 4:30pm** **@ T.C. Brampton**	
Johnson Controls The DX9100 Controller ***12 Students Max***	**Manufacturer Specific Training** • Controller Access • Local and remote interface • Build a system • Commissioning • Block Programming • PLC Logic	**Week-End** **Saturday & Sunday** **December 6 & 7, 2008** **8:30am to 4:30pm** **@ T.C. Brampton**	
Johnson Controls Facility Explorer FX16/40 Field Controller (DX 9100 Training Recommended) ***12 Students Max***	**Manufacturer Specific Training** • FX Applications • Control Strategies • Set-up and communications • Operations • Commissioning • A look at Supervisory • Programming Concepts • FX Networks & Frame Work	**Week-End** **Saturday & Sunday** **March 28 & 29, 2009** **8:30am to 4:30pm** **@ T.C. Brampton**	
Carrier 3V Control System & CCN ***12 Students Max***	**Manufacturer Specific Training.** • System Pilot Interface • Zone/By-pass Controllers • Universal Controller • Set-up and Commissioning	**Week-End** **Saturday & Sunday** **November 22 & 23, 2008** **8:30am to 4:30pm** **@ T.C. Brampton**	
PLC Basics ***12 Students Max***	**PLC Basics as applied to the HVACR industry** **Lab work included**	**Week-End** **January 10 & 11, 2009** **8:30am to 4:30pm** **@ T.C. Brampton**	

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Combustion Basics & Flue Gas Analysis **With Practical** (16 Students Max)	The purpose of this session is to re-enforce the basics of combustion from a technician's stand point. This course is designed for the industrial, commercial & institutional service technician with emphasis on combustion concepts, and light on engineering formulas/theory. A thorough knowledge of combustion allows the technician to operate and understand virtually any flue gas analyzer. Special emphasis will be focused on carbon monoxide and NOX gas. A variety of gas analyzers will be studied and demonstrated. A course book will be supplied.	**Saturday Only** **December 6, 2008** **8:30am to 4:30pm** **@ Brampton T.C.**	
		Saturday Only **February 7, 2009** **8:30am to 4:30pm** **@ Brampton T.C.**	
Unitary/Roof Top Integrated Modular Control	**Carrier** **Lennox (non "L")** **Trane** **York** **Roof Top Control Systems.** **Servicing and troubleshooting of the associated microprocessor control modules.** **To include ignition and economizer boards.**	**Monday Nights** **5-nights** **Starting** **November 3, 2008** **Schedule to be supplied** **6:30pm to 9:30pm** **@ T.C. Brampton**	
Liebert Environmental Systems **All processor Versions Up-to-date**	**An overview of the following topics:** • **Microprocessors** • **Software** • **Unit Operation** • **Troubleshooting** • **Maintenance**	**Saturday Only** **February 21, 2009** **8:30am to 4:30pm** **@ T.C. Brampton**	
Variable Frequency Drives ***12 Students max.***	**This course will provide an over-view of current drive fundamentals, operation and maintenance.**	**Saturday Only** **December 6, 2008** **8:30am to 4:30pm** **@ T.C. Brampton**	

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