

JTAC Program Registration Form

2009-2010

Phone
Your Request to:
(905) 790-9662
or
1-888-305-9993

or Fax
Completed
Registration form to:
(905) 790-9711

or Mail
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 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|--------|
| <p><u>New</u></p> <p>Green Mechanical Systems Awareness</p> <p>This is a prep course for the U.A. Certification (on-line exam at a different date)</p> | <p>Awareness of fundamental and emerging Green technologies</p> <p>The following areas are covered:</p> <ul style="list-style-type: none"> • Concepts and terminology • Energy and efficiency <p>Products and systems</p> <ul style="list-style-type: none"> • HVAC • Solar • Plumbing <p>A basic overview for awareness.</p> | <p><u>Week-End</u></p> <p>Saturday & Sunday</p> <p>January 23 & 24, 2010 8:30am to 4:30pm @ T.C. Brampton</p> | |
| <p>LEED</p> <p>LEED what does it mean to you and why should you care?</p> <p>This is a pre-requisite to additional LEED courses</p> | <p>An introduction to: The LEED rating systems will be the subject of this seminar.</p> <ul style="list-style-type: none"> • What is LEED? • Who is involved? • Why is it used? • When is the rating system used? • And where is it going? <p>These are a few of the topics to be covered.</p> | <p><u>Saturday Only</u></p> <p>Saturday October 24, 2009 8:30am to 4:30pm @ T.C. Brampton</p> | |
| | | <p><u>Saturday Only</u></p> <p>Saturday March 20, 2010 8:30am to 4:30pm @ T.C. Brampton</p> | |
| <p>Commissioning an Overview</p> <p>The ASHRAE Commissioning System</p> | <p>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:</p> <ul style="list-style-type: none"> • ASHRAE Guideline 0 – 2005 • The Commissioning Process • Commissioning is a quality-focused process which enhances the delivery of your projects. | <p><u>Saturday Only</u></p> <p>Saturday November 28, 2009 8:30am to 4:30pm @ T.C. Brampton</p> | |

Name _____ . UA Card # _____ . Phone # _____

The above programs require a minimum of 12 participants, or as otherwise stated.

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| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <p align="center"><u>New</u></p> <p align="center">Thermography</p> <p align="center">Learn what your infrared thermometer is seeing</p> | <p>Using the thermal imaging camera to develop an understanding of infrared temperature measurement then examining it's practical use.</p> <p>Thermography has various uses within the HVAC/R industry and an overview of these various applications will be presented.</p> <p>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.</p> | <p align="center"><u>Saturday Only</u></p> <p align="center">Saturday March 13, 2010 8:30am to 4:30pm @ T.C. Brampton</p> | |
| <p align="center">Renewable Energy Systems</p> <p>A seminar covering the various renewable systems that are being used in the construction of high performance buildings.</p> | <p>As energy costs continue to rise, more and more renewable energy systems are being installed.</p> <p>Learn about the aspects of these various systems and see several of renewable systems in operation at the Training Center.</p> <p>As an introduction, this seminar will prepare the student for continued pursuit of knowledge in this new emerging field.</p> | <p align="center"><u>Week-End</u></p> <p align="center">Saturday & Sunday February 20 & 21 2010 8:30am to 4:30pm @ T.C. Brampton</p> | |
| <p align="center"><u>Nights</u></p> <p align="center">Motor Technology and The ECM (electronically commutated motor)</p> | <p align="center">This is the Fractional Horse Power replacement of the future</p> <p>A complete review of motor technologies and starting techniques.</p> <p align="center">Understanding and working with the ECM variable speed system.</p> <p align="center"><i>Plus</i> new Evergreen ECM replacement motors</p> | <p align="center"><u>Thursdays</u></p> <p align="center">6-nights 6:30pm to 9:30pm Starting March 4, 2010 @ T.C. Brampton Schedule to be supplied</p> | |
| <p align="center">Practical PID Control Commissioning</p> | <p>This is a one day intense study of PID (Proportional, Integral, Derivative)</p> <ul style="list-style-type: none"> • Definitions • Applications • Tuning • Troubleshooting | <p align="center"><u>Sunday Only</u></p> <p align="center">November 29, 2009 8:30am to 4:30pm @ T.C. Brampton</p> | |

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| Electrical Troubleshooting Upgrade Program | This course will review the process of using electrical HVACR diagrams in troubleshooting systems. Diagnostic equipment and their applications will be studied. <i>Pre-requisite: 3rd year Apprentice</i> | Week-end Saturday & Sunday February 27 & 28, 2010 8:30am to 4:30pm @ T.C. Brampton | |
| U.A. Star HVACR Certification | This is an exam preparation course. The Study Guide curriculum will be reviewed to prepare the participant to write the HVACR Star exam | Wednesday Nights Starting January 13, 2010 6 Nights 6:30pm to 9:30pm @ T.C. Brampton | |
| 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 specific training for R410A <u>Topics</u> <ul style="list-style-type: none"> • 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 | |
| Fundamentals of Brazing <i>16 Students max.</i> | Workshop for Mechanics or Apprentices looking to learn or refresh Brazing techniques | Week-end Saturday & Sunday November 21 & 22, 2009 8:30am to 4:30pm @ T.C. Brampton | |
| Fundamentals of Orbital Welding <i>8 Students max.</i> | Learn how to weld stainless steel tubing and fittings with a state-of-the-art Orbital Welding Machine CO ₂ refrigerant compatible | Saturday Only Saturday March 27, 2010 8:30am to 4:30pm @ T.C. Brampton | |
| Basic Welding Technology <i>8 Students max.</i> | Workshop for Mechanics or Apprentices looking to learn or refresh Welding techniques <ul style="list-style-type: none"> • SMAW • GMAW • GTAW | Week-end Saturday & Sunday February 6 & 7, 2010 8:30am to 4:30pm @ T.C. Brampton | |

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| Purge O & M <i>12 Students max.</i> | Operation and Maintenance of Purge Units for Low Pressure Chillers | Week-End Saturday & Sunday February 20 & 21, 2010 8:30am to 4:30pm @ T.C. Brampton | |
| Carrier Chiller Micro-Processor <i>12 Students max.</i> | Manufacturer Specific 32 SM & 3200 MP PIC 1 & 2 Some hands-on with trainers will be included. | Sunday Only February 7, 2010 8:30am to 4:30pm @ T.C. Brampton | |
| York YK High Pressure Centrifugal Tear-Down | Manufacturer Specific Training Each session will focus on the information and skills necessary to successfully tear down and rebuild the compressor and associated components. <u>12 participants max.</u> | Week-End Saturday & Sunday January 16 & 17, 2010 8:30am to 4:30pm @ T.C. Brampton | |
| McQuay CEO High Pressure Centrifugal Tear Down | | Saturday Only March 6, 2010 8:30am to 4:30pm @ T.C. Brampton | |
| Trane CVHE 3-stage Centrifugal Tear-Down | | Week-End Saturday & Sunday March 27 & 28, 2010 8:30am to 4:30pm @ T.C. Brampton | |
| York Chiller Micro-Processor <i>12 Students max.</i> | Manufacturer Specific Keyed & Keyless + Optiview Some hands-on with trainers will be included. | Saturday Only February 6, 2010 8:30am to 4:30pm @ T.C. Brampton | |
| Chiller O&M <i>20 Students max.</i> | Operation and Maintenance of Chillers Both Centrifugal and Positive Displacement Systems | Week-End Saturday & Sunday November 7 & 8, 2009 8:30am to 4:30pm @ T.C. Brampton | |
| McQuay Chiller Micro-Processor <i>12 Students max.</i> | Manufacturer Specific Some hands-on with trainers will be included. | Sunday Only March 7, 2010 8:30am to 4:30pm @ T.C. Brampton | |
| Motors & Pumps Service & Repair <i>12 Students Max</i> | Procedures used in field repairs of motors and pumps. | Saturday Only January 30, 2010 8:30am to 4:30pm @ T.C. Brampton | |

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| <p align="center">Basic Electronic Theory</p> <p><i>*Recommended before the EMC course*</i></p> | <p>Designed to present the basic fundamentals of Electronics pertaining to the HVAC & R Industry. Some hands-on lab work will be included</p> | <p>Thursday Nights</p> <p align="center">6-nights 6:30pm to 9:30pm</p> <p align="center">Starting January 14, 2010 @ T.C. Brampton Schedule to be supplied</p> | |
| <p align="center">Electronic & Microprocessor Controls</p> <p align="center">Certificate Course</p> <p><i>**This course is recommended before taking any DDC and BAS courses**</i></p> | <p>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 on electronic and microprocessor controls of Building Management Systems</p> <p>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, installation, and application of devices. Hands-on experience will include configuring and programming of specific control manufacturers' software and firmware.</p> | <p>Monday Nights</p> <p align="center">Starting November 2, 2009 6:30pm to 9:30pm</p> <p align="center">@ T.C. Brampton</p> | |
| <p align="center">Honeywell Controls & LCBS System Basics</p> <p align="center"><i>12 Students Max</i></p> | <p align="center">Manufacturer Specific Training</p> <ul style="list-style-type: none"> • Create a network • Select components • Menus • Design a network • XL 15 • XL10 • Actuators • XL15C • Remote Applications | <p align="center">Week-End</p> <p align="center">Saturday & Sunday December 12 & 13, 2009 8:30am to 4:30pm @ T.C. Brampton</p> | |
| <p align="center">Indoor Environmental Quality (IAQ)</p> | <p align="center">An overview of the "Sick Building Syndrome".</p> <p align="center">CO₂ Demand Ventilation. Contaminants affecting IEQ</p> | <p align="center">Week-end</p> <p align="center">Saturday & Sunday April 17 & 18, 2010 8:30am to 4:30pm @ T.C. Brampton</p> | |

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| <p align="center">Trane Tracker Control Systems</p> <p align="center"><i>12 Students Max</i></p> | <p align="center">Manufacturer Specific Training</p> <ul style="list-style-type: none"> • Installation/Operation • Rover Software • Configuration & Set-up | <p align="center">Week-End</p> <p align="center">March 6 & 7, 2010 8:30am to 4:30pm @ T.C. Brampton</p> | |
| <p align="center">Johnson Controls UNT Controller Basics</p> <p align="center"><i>12 Students Max</i></p> | <p align="center">Manufacturer Specific Training</p> <ul style="list-style-type: none"> • Question and answer sessions • Controller types • Systems • Networking | <p align="center">Week-End</p> <p align="center">Saturday & Sunday October 31 & Nov 1, 2009 8:30am to 4:30pm @ T.C. Brampton</p> | |
| <p align="center">York AutoZone Control system</p> <p align="center"><i>12 Students Max</i></p> | <p align="center">Manufacturer Specific Training</p> <ul style="list-style-type: none"> • System/Zone manager • Comm Link II/Remote Link • Controllers • Dampers | <p align="center">Saturday Only</p> <p align="center">Saturday April 17 & 18, 2010 8:30am to 4:30pm @ T.C. Brampton</p> | |
| <p align="center">Johnson Controls The DX9100 Controller</p> <p align="center"><i>12 Students Max</i></p> | <p align="center">Manufacturer Specific Training</p> <ul style="list-style-type: none"> • Controller Access • Local and remote interface • Build a system • Commissioning • Block Programming • PLC Logic | <p align="center">Week-End</p> <p align="center">Saturday & Sunday November 28 & 29, 2009 8:30am to 4:30pm @ T.C. Brampton</p> | |
| <p align="center">Johnson Controls Facility Explorer FX16/40 Field Controller</p> <p align="center"><small>(DX 9100 Training Recommended)</small></p> <p align="center"><i>12 Students Max</i></p> | <p align="center">Manufacturer Specific Training</p> <ul style="list-style-type: none"> • FX Applications • Control Strategies • Set-up and communications • Operations • Commissioning • A look at Supervisory • Programming Concepts • FX Networks & Frame Work | <p align="center">Week-End</p> <p align="center">Saturday & Sunday March 27 & 28, 2010 8:30am to 4:30pm @ T.C. Brampton</p> | |
| <p align="center">Carrier 3V Control System & CCN</p> <p align="center"><i>12 Students Max</i></p> | <p align="center">Manufacturer Specific Training.</p> <ul style="list-style-type: none"> • System Pilot Interface • Zone/By-pass Controllers • Universal Controller • Set-up and Commissioning | <p align="center">Week-End</p> <p align="center">Saturday & Sunday November 21 & 22, 2009 8:30am to 4:30pm @ T.C. Brampton</p> | |
| <p align="center">PLC Basics</p> <p align="center"><i>12 Students Max</i></p> | <p align="center">PLC Basics as applied to the HVACR industry</p> <p align="center">Lab work included</p> | <p align="center">Week-End</p> <p align="center">January 9 & 10, 2010 8:30am to 4:30pm @ T.C. Brampton</p> | |

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| Combustion Basics & Flue Gas Analysis With Practical (16 Students Max) | <p>The purpose of this session is to review 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.</p> <p>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.</p> <p>A variety of gas analyzers will be studied and demonstrated.</p> <p>A course book will be supplied.</p> | Saturday Only December 12, 2009 8:30am to 4:30pm @ Brampton T.C. | |
| | | Saturday Only March 6, 2010 8:30am to 4:30pm @ Brampton T.C. | |
| Unitary/Roof Top Integrated Modular Control | <p align="center">Carrier Lennox (Incl "L") Trane York</p> <p align="center">Roof Top Control Systems.</p> <p>Servicing and troubleshooting of the associated microprocessor control modules.</p> <p>To include ignition and economizer boards.</p> <ul style="list-style-type: none"> • IMC Basics • IMC Configuration Errors & Diagnostics | Monday Nights 7-nights Starting January 11, 2010 Schedule to be supplied 6:30pm to 9:30pm @ T.C. Brampton | |
| Liebert Environmental Systems All processor Versions Up-to-date | <p>An overview of the following topics:</p> <ul style="list-style-type: none"> • Microprocessors • Software • Unit Operation • Troubleshooting • Maintenance | Sunday Only February 21, 2010 8:30am to 4:30pm @ T.C. Brampton | |
| Variable Frequency Drives <i>12 Students max.</i> | <p>This course will provide an over-view of current drive fundamentals, operation and maintenance.</p> <p align="center">Lab work included</p> | Week-End December 5 & 6, 2009 8:30am to 4:30pm @ T.C. Brampton | |

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Joint Training and Apprenticeship Committee

Refrigeration Workers Local 787 - O.R.A.C. Training Fund
419 Deerhurst Drive, Brampton, ON L6T 5K3
Tel: 905-790-9662 Toll Free: 1-888-305-9993
Fax: 905-790-9711 Web: www.jtac787.org

O.Reg. 189/94

Fluorocarbon Refrigerants Handling

ODP Certification Renewal Form

Please print and note that the Certificate will be sent to the address provided.

Name: _____

ODP Card # _____ *or New Certification Required* _____

Address: _____ Apt/Unit # _____

City: _____ Postal Code: _____

Work Phone: _____ Home Phone: _____

Employer: _____

Employer's Address: _____

You are required to apply for re-certification every 5 years after certification or re-certification
As per the requirements of O. Reg. 189/94 Section 21.(2)(b), a \$50 administration fee will be
deducted from the member's training allowance.

Please forward (fax or mail) the completed Renewal Form 6 weeks before expiry of your current ODP certificate.

If your ODP certificate expires, before renewal, you will be required to attend a full day Fluorocarbon Refrigerant Handling program and successfully complete the accompanying exam