



Joint Training and Apprenticeship Committee

Refrigeration Workers Local 787 - O.R.A.C. Training Fund
419 Deerhurst Drive, Brampton, ON L6T 5K3
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Training News

Fall 2012

Fall greetings from the staff at the JTAC.

We trust that all members and their families had a pleasant summer, and were able to get away for some well deserved time with the family.

Highlights for this Training Season are:

- The Ontario College of Trades
- 636G Gas Technician Apprenticeship
- 456A Welding Apprenticeship

The JTAC has been working to prepare for the 2012-2013 calendar year, which is full of new and exciting courses to keep the members up-to-date.

Enclosed, you will find the 2012-13 course selection, and the ODP card Renewal form.

Please join us at the Training Centre for one of the many courses offered.

See you at the Training Centre.

Please Note: We are mailing this letter to only members that have not supplied U.A. local 787 with an e-mail address. All other members will receive the News via e-mail.

The Ontario College of Trades (OCOT)

The Ontario College of Trades (OCOT) is in the process of becoming 100% functional. At this time they are reviewing a number of trade regulatory issues and policies to govern all the trades that were legislated to move over from the Ministry of Training Colleges and Universities (MTCU). It should be fully functional in the New Year. We will keep you posted on their progress.

Please visit their web site and sign-up for their news. Go to: <http://www.collegeoftrades.ca/category/news>

This is a current info slide presentation:

[http://www.iciconstruction.com/admin/contentEngine/contentDocuments/OCS_AGM_2012 - Presentation - BGuthrie-OCOT-9-04-12.pdf](http://www.iciconstruction.com/admin/contentEngine/contentDocuments/OCS_AGM_2012_-_Presentation_-_BGuthrie-OCOT-9-04-12.pdf)

You can also contact Shane McCarthy if you need assistance with a file copy or any questions.

shane.mccarthy@jtac787.org

636G Gas Technician Apprenticeship

The 636G Gas Technician Apprenticeship is now in effect. It has some unsettled issues with exemptions however interested members may sign-up anytime to start as a new first year apprentice. The 636G apprenticeship is a collaboration between MTCU and TSSA. It will migrate over to OCOT fully very soon.

TSSA has a policy document that explains the process:

<http://www.tssa.org/corplibrary/ArticleFile.asp?Instance=136&ID=43B862EB79C311E1AFDF24947EB9258C>

If you have an existing G.3 certification you may also register as an apprentice, although at this time exemptions are not being allowed.

You can also contact Shane McCarthy if you need assistance with a file copy or any questions.

shane.mccarthy@jtac787.org

456A Welding Apprenticeship

The JTAC will be running our first Level 1 Welding Apprenticeship in-school class at the end of January 2013.

January 21st to March 28th for 10 weeks

This is a pilot program and if we have an on-going demand for additional classes we will continue to offer more welding in-school classes.

For more Info go to: http://www.tcu.gov.on.ca/eng/employmentontario/training/pdf/456A_Eng.pdf

Interested members in a welding apprenticeship should contact Shane McCarthy

shane.mccarthy@jtac787.org

Registration Deposit

All members must pay a \$100.00 course registration deposit fee when signing up for the 1st course of each training calendar year. This fee will be refunded to the member in May of each year via a cheque from the JTAC office, *if* and only if the member has attended all classes that he/she has registered to attend for the complete training calendar year.

If a member needs to cancel a course it must be done a minimum of 5 business days before the course date, otherwise the member will forfeit the \$100.00 registration deposit fee.

A signed medical doctor's note is acceptable in emergency situations.

All members must register with the JTAC office.

The on-line website option for course registration and payment will not be available at this time.

We have implemented this process to make more spots available for the members who truly want to attend our courses. We have had on-going problems with attendance and no-shows for classes preventing the JTAC from offering these classes to other members.

Please help us to make the best of our training opportunities.

Thanks for your cooperation.

Out of town JTAC Training Programs

We will arrange to deliver courses out of town if a group of 12 members are committed to attending a course that we have designed as mobile. We can run most courses out of town if they do not require extensive lab resources.

We will be sending out a schedule for the Ottawa Training Centre very soon.

Please call the training office for additional details, or e-mail shane.mccarthy@jtac787.org

Non-JTAC Training Programs

Increased Allowance: All JTAC/Local 787 Members paying into the Training Fund are eligible to submit once per year, a course expense of **\$500.00** to the Training Office, for:

APPROVED COURSES.

You **MUST** have the course pre-approved by the Training Director, and it must be trade related!
A receipt and official transcript of successful completion must be received in the JTAC office for rebate.

NO retro active payments.

Apprenticeship Contracts

To all Apprentices; if you change employers please ensure you present the new employer with a copy of your contract of apprenticeship and any transfer documentation.

Thank You

Night School and Home Study Apprenticeship Training Program

Should you be working late and are not able to attend a session of Night School, the JTAC office needs a letter/e-mail from your employer stating your Name, N/S Level, Night, and reason.
Marks are deducted for un-excused absences and 3 absences warrant your removal from the JTAC program.

Night School and/or Home Study are compulsory and must be successfully completed in order to graduate from the Program.

Ministry School Not at the JTAC

If apprentices are attending Day School outside of the JTAC Training Centre then you **MUST** include a copy of your marks from the college you have attended, when you send in your Status Form for a Referral.
No Ministry School hours will be credited without the JTAC office receiving a copy of your marks.

Maintenance Mechanic Course Eligibility

Maintenance Mechanics are eligible to take only the following JTAC offered Courses:

G3 and ODP Certification, unless authorized by the JTAC Committee.

Gas Technician Courses

Gas and Oil On-Demand

The JTAC is running all levels of Gas Technician courses at the Training Centre in Brampton
G.1, G.2 and G.3 programs run every other weekend on Saturdays and Sundays, plus fast-track G.1 blocks.

We are building Gas courses in the out-of-town areas. Please call to have your name added to the list.
The only cost for the course is for books and codes.

Please contact the JTAC office for current prices

Fast track G.1

Fall 2012 – Full

Next Class

March 16 to March 24, 2013 - 4 weeks recess

April 20 to 28, 2013, exam on last day

18 days (2 x 9 day blocks) of intensive training!

Oil Technician 2 Courses

Oil Burner 2 Technician Up-grade Course
18 days Fast Track Format (2 x 9 day blocks)
Only available in Brampton at the Training Centre
February 2 to 10 and March 2 to 10. 2013

This is a customized course specifically designed and approved for HVACR workers only. There are strict pre-requisite agreed to with TSSA for eligibility to participate in the program.

1. Be a valid holder of a 313A C of Q and a G.2 or higher C of Q holder.
(i.e. Refrigeration and Air Conditioning Mechanic and Gas Technician 2)
or
2. Be a minimum of 4th year apprentice who has completed all the day school and night school/home study requirements, and is a G.2.
3. An OBT 3 can be accepted in place of the G.2 C of Q.

On successful completion of the course (passing the practical component with 75% mark or above) the participant will be eligible to write the OBT exam provided by TSSA for certification as an Oil Burner 2 Technician.

Full attendance (100%) is mandatory as this is a modified program with no allowance for absenteeism. All attendees will be required to show proof of valid certification on the first day. The only cost for the course is for books and codes. Please contact the JTAC office for current prices

Please contact the JTAC office if you would like to participate.

Call the JTAC office for Registration
or e-mail
adeela.chaudhry@jtac787.org

ODP Report

All members need to have a valid/current ODP card.

If you have let your card expire then you must take the **FULL 1 Day course**.

If your card is current, please fill out the renewal form included, six weeks prior to expiry and send to the JTAC office via mail or fax.

Notice: The JTAC will not reimburse any other ODP renewal programs.

On-Demand
Call the JTAC office for ODP Registration
Or contact:
adeela.chaudhry@jtac787.org

On behalf of the JTAC Staff and Trustees we would like to wish everyone a safe and prosperous Fall.

Work Safe, Work Smart-Your Family Needs You!

Yours in Training,

Shane McCarthy
Training Director
JTAC/U.A. Local 787
shane.mccarthy@JTAC787.org

JTAC Program Registration Form

2012-2013

or 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><i>New</i></p> <p>Honeywell Economizers Systems</p> <p>The JADE revolution</p>	<p>Don't miss this presentation by: Scott McDonald and Gerry Cellucci</p> <p>Learn all about the new JADE controller and how to retrofit existing systems in the field</p>	<p>Thursday Night</p> <p>In the Auditorium</p> <p>November 22, 2012 6:30pm to 9:30pm @ T.C. Brampton</p>	
<p><i>New</i></p> <p>Emerson Digital Controlled Refrigeration</p>	<p>This program will include the following:</p> <ul style="list-style-type: none"> -Why Compressors Fail. (includes hands on) -Product Selection Software & Web Based Utilities <ul style="list-style-type: none"> • How to Find Energy Savings by Floating Head Pressure, On line Energy Saving Calculator -Energy Savings Through the Use of Floating Head Pressure Systems. -New Copeland Compressor Technologies <ul style="list-style-type: none"> • Digital Capacity Modulation (10 to 100%), 30% Energy Savings of Digital Vs Hot Gas bypass, Supermarket Rack advantage of Digital modulation -Copeland CoreSense Compressor Diagnostics -Emerson Electronic Valves and Controllers <ul style="list-style-type: none"> • Reduced Defrost times, Quicker Pull Down Time, Ideal for Floating Head Pressure Systems, Eliminates Floodback when Evap Fan Motor Burns, Controller Set up and Troubleshooting, TCIP & Modbus Connectivity 	<p>Thursdays 4-nights</p> <p>Starting</p> <p>March 21, 2013 4 weeks in length</p> <p>6:30pm to 9:30pm @ T.C. Brampton</p>	
<p><i>New</i></p> <p>CO₂ Carbon Dioxide (R744) Basic Training</p>	<p>The R744 (CO₂) introductory program will consist of the following: CO2 Refrigeration Fundamentals.</p> <p>Introduce the basics of working on carbon dioxide systems and help prepare students for advanced studies of CO2 (R744) refrigeration systems.</p> <p>The course will cover design, installation and maintenance issues, explaining the advantages and challenges of using R744, including leak and pressure testing, as well as charging and venting.</p> <p>Describing the basic components and functionality of CO2 systems, including volatile secondary refrigerants (with direct expansion and cascade), trans-critical and direct expansion.</p>	<p>Week-End</p> <p>Saturday & Sunday January 26 and 27, 2013 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.

JTAC Program Registration Form 2012-2013

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

Program Selection	Description	Dates & Locations	Choice
Motors & Pumps Service & Repair <i>12 Students Max</i>	Procedures used in field repairs of motors and pumps. Some hydronic and fluid systems are included	Saturday Only December 1, 2012 8:30am to 4:30pm @ T.C. Brampton	
		Saturday Only February 9, 2013 8:30am to 4:30pm @ T.C. Brampton	
R-22 Replacements and Retrofits A certificate will be issued	HFC-410A Application & HCFC-22 Conversions <u>Topics</u> <ul style="list-style-type: none"> • Current info and documents • HCFC 22 to HFC Conversions • 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 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 CO₂ refrigerant compatible	Saturday Only Saturday April 13, 2013 8:30am to 4:30pm @ T.C. Brampton	
Basic Welding Technology 1 <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 November 17 & 18, 2012 8:30am to 4:30pm @ T.C. Brampton	
Welding Technology 2 <i>8 Students max. Prerequisite #1</i>	Continuation from the Basic session building on the welding skills of the following <ul style="list-style-type: none"> • SMAW • GMAW • GTAW 	Week-end Saturday & Sunday December 8 & 9, 2012 8:30am to 4:30pm @ T.C. Brampton	

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JTAC Program Registration Form 2012-2013

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

Program Selection	Description	Dates & Locations	Choice
Purge O & M <i>12 Students max.</i>	Operation and Maintenance of Purge Units for Low Pressure Chillers	Saturday Only February 23, 2013 8:30am to 4:30pm @ T.C. Brampton	
Chiller Micro-Processor Low Pressure <i>12 Students max.</i>	Microprocessor familiarization for LOW pressure (R123) chillers York, Carrier and Trane to be studied Some hands-on with trainers will be included.	Week-End Saturday & Sunday March 2 & 3, 2013 8:30am to 4:30pm @ T.C. Brampton	
Chiller Micro-Processor High Pressure <i>Students max.</i>	Microprocessor familiarization for HIGH pressure chillers York, Carrier and Trane to be studied Some hands-on with trainers will be included.	Week-End Saturday & Sunday March 23 & 24, 2013 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 26 & 27, 2013 8:30am to 4:30pm @ T.C. Brampton	
McQuay CE High Pressure Centrifugal Tear Down		Week-End Saturday & Sunday February 9 & 10, 2013 8:30am to 4:30pm @ T.C. Brampton	
Trane CVHE 3-stage Centrifugal Tear-Down		Week-End Saturday & Sunday January 12 & 13, 2013 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 will be covered	Week-End Saturday & Sunday February 9 & 10, 2013 8:30am to 4:30pm @ T.C. Brampton	

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JTAC Program Registration Form 2012-2013

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

Program Selection	Description	Dates & Locations	Choice
<p style="text-align: center;">Electronic & Microprocessor Controls</p> <p style="text-align: center;">Certificate Course</p> <p style="text-align: center;">40 hour</p> <p>**This course is recommended before taking any DDC and BAS courses**</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.</p> <p>The participant upon completion of the 40-hour course should have an understanding of EMC terminology and applications of the various inputs, outputs devices and communication protocols. Various types of input and output device shall be identified and explained through workplace examples. Through lab applications the participant's knowledge will be applied as they change input and output values integrating software and computers. Literature shall be provided in electronic format beyond the required classroom presentation and lab documentation.</p> <p>Hands-on experience will include configuring and programming of specific control manufacturers' software and firmware.</p> <p style="text-align: center;">* Some homework will be assigned and credited</p>	<p style="text-align: center;">Multiple Week-Ends</p> <p style="text-align: center;">2-Saturdays & Sundays</p> <p style="text-align: center;">January 19 & 20, 2013</p> <p style="text-align: center;">and</p> <p style="text-align: center;">February 2 & 3, 2013</p> <p style="text-align: center;">8:30am to 4:30pm @ T.C. Brampton</p>	
<p style="text-align: center;">Electrical Troubleshooting Upgrade Program</p>	<p>This course will review the process of using electrical HVACR diagrams in troubleshooting systems.</p> <p>Diagnostic equipment and their applications will be studied.</p> <p style="text-align: center;"><i>Pre-requisite: 3rd year Apprentice</i></p>	<p style="text-align: center;">Week-end</p> <p style="text-align: center;">Saturday & Sunday April 20 & 21, 2013 8:30am to 4:30pm @ T.C. Brampton</p>	
<p style="text-align: center;">Indoor Environmental Quality</p> <p style="text-align: center;">IEQ/IAQ</p>	<p style="text-align: center;">Health, Comfort, and Energy. The complete solution through Indoor Environmental Quality.</p> <p style="text-align: center;">CO₂ Demand Ventilation. Contaminants affecting Indoor Air Quality</p>	<p style="text-align: center;">Week-end</p> <p style="text-align: center;">Saturday & Sunday February 23 & February 24, 2013</p> <p style="text-align: center;">8:30am to 4:30pm @ T.C. Brampton</p>	
<p style="text-align: center;">Geo-Exchange Energy Systems</p> <p>A seminar covering the installation of Geo-exchange systems.</p>	<p>As energy costs continue to rise, more and more geo-exchange systems are being installed in the ICI sector.</p> <p>Learn about the aspects of these systems in regards installation, commissioning and service. Who are the Canadian Geo-Exchange Coalition and the International Ground Source Heat Pump Association</p> <p>As an introduction, this seminar will prepare the student for continued pursuit of knowledge in this re-emerging emerging field.</p>	<p style="text-align: center;">Week-End</p> <p style="text-align: center;">Saturday January 12 & 13, 2013</p> <p style="text-align: center;">8:30am to 4:30pm @ T.C. Brampton</p>	

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

JTAC Program Registration Form

2012-2013

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

Program Selection	Description	Dates & Locations	Choice
<p style="text-align: center;">Honeywell Controls & LCBS System Basics</p> <p style="text-align: center;"><i>12 Students Max</i></p>	<p style="text-align: center;">Manufacturer Specific Training</p> <p>The participant upon completion should have an understanding of the functionality of the hardware and configuration process of a HW Lon based LCBS Building Automation Systems BAS. The two-day training session will complement the general knowledge of the participants understanding of BAS through application of the LCBS software. In a lab environment, participants will commission the LCBS controls in small group projects. Literature shall be provided in electronic format beyond the required classroom presentation and lab documentation.</p> <ul style="list-style-type: none"> • Create and design network • Select components • XL 10, 15, 15C + actuators • Remote Applications 	<p style="text-align: center;">Thursdays 6-nights</p> <p style="text-align: center;">Starting November 15, 2012 6 weeks in length</p> <p style="text-align: center;">6:30pm to 9:30pm @ T.C. Brampton</p>	
<p style="text-align: center;">York AutoZone</p> <p style="text-align: center;">Control system <i>12 Students Max</i></p>	<p style="text-align: center;">Manufacturer Specific Training</p> <p>The participant upon completion should have an understanding of the functionality of the hardware and configuration process of a YORK Autozone BAS. The one-day training session will complement the general knowledge of the participants understanding of BAS. Application of a constant volume rooftop using pressure dependent, pressure independent and bypass dampers shall be discussed and demonstrated. Applying the software in a lab environment the participants shall build and commission the lab trainer as a group project. Literature shall be provided in electronic format beyond the required classroom presentation and lab documentation.</p>	<p style="text-align: center;">Sunday Only</p> <p style="text-align: center;">Sunday April 21, 2013 8:30am to 4:30pm @ T.C. Brampton</p>	
<p style="text-align: center;">Carrier 3V Control System & CCN</p> <p style="text-align: center;"><i>12 Students Max</i></p>	<p style="text-align: center;">Manufacturer Specific Training</p> <p>The participant upon completion should have an understanding of the functionality of the hardware and configuration process of a Carrier 3V BAS. The two-day training session will complement the general knowledge of the participants understanding of Carrier 3V BAS. Application of a constant volume rooftop using pressure dependent, pressure independent and bypass dampers shall be discussed and demonstrated. Applying their knowledge in a lab environment the participants shall commission the 3V lab trainers in small groups. Literature shall be provided in electronic format beyond the required classroom presentation and lab documentation.</p>	<p style="text-align: center;">Week-End</p> <p style="text-align: center;">Saturday & Sunday March 23 & 24, 2013 8:30am to 4:30pm @ T.C. Brampton</p>	

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JTAC Program Registration Form 2012-2013

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

Program Selection	Description	Dates & Locations	Choice
Johnson Controls UNT Controller Basics <i>12 Students Max</i>	Manufacturer Specific Training The participant upon completion should have an understanding of the functionality of the hardware and configuration process of a JCI UNT BAS controller. The two-day training session should complement the general knowledge of the participants understanding of BAS through application of the JCI HVAC Pro software. In a lab environment, participants will commission the UNT controller in small group projects. Literature shall be provided in electronic format beyond the required classroom presentation and lab documentation.	Saturday Only Saturday November 24, 2012 8:30am to 4:30pm @ T.C. Brampton	
Johnson Controls The DX9100 Controller <i>12 Students Max</i>	Manufacturer Specific Training The participant upon completion should have an understanding of the functionality of the hardware and configuration process of a JCI DX9100 BAS controller. The two-day training session should complement the general knowledge of the participants understanding of BAS through application of the JCI HVAC Pro software. In a lab environment, participants will commission the DX9100 controls in small group projects. Literature shall be provided in electronic format beyond the required classroom presentation and lab documentation.	Week-End Saturday & Sunday February 23 & 24, 2013 8:30am to 4:30pm @ T.C. Brampton	
Johnson Controls Facility Explorer FX16 series Field Controller (DX 9100 Training Recommended) <i>12 Students Max</i>	Manufacturer Specific Training <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 	Week-End Saturday & Sunday March 16 & 17, 2013 8:30am to 4:30pm @ T.C. Brampton	
Johnson Controls Supervisory Tridium Controllers <i>12 Students Max</i>	Manufacturer Specific Training The participant upon completion should have an understanding of the functionality of the hardware and configuration process of a JCI FX Tridium controller. The one-day training session should advance the knowledge of the participants understanding of JCI BAS through application of the JCI FX Tridium controller. In a lab environment, participants will discover the JCI FX through an instructor led group project. Literature shall be provided in electronic format beyond the required classroom presentation and lab documentation.	Saturday Only Saturday April 6, 2013 8:30am to 4:30pm @ T.C. Brampton	
		Thursday Night Thursday Oct 25th, 2012 6:30pm to 9:30pm @ T.C. Brampton	

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JTAC Program Registration Form 2012-2013

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

Program Selection	Description	Dates & Locations	Choice
<p style="text-align: center;">Combustion Basics & Flue Gas Analysis</p> <p style="text-align: center;">With Practical</p> <p style="text-align: center;">(16 Students Max)</p>	<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.</p> <p>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>	<p style="text-align: center;">Saturday Only</p> <p style="text-align: center;">December 8, 2012</p> <p style="text-align: center;">8:30am to 4:30pm</p> <p style="text-align: center;">@ Brampton T.C.</p>	
		<p style="text-align: center;">Saturday Only</p> <p style="text-align: center;">March 9, 2013</p> <p style="text-align: center;">8:30am to 4:30pm</p> <p style="text-align: center;">@ Brampton T.C.</p>	
<p style="text-align: center;">Unitary/Roof Top Integrated Modular Control</p>	<p>Carrier-48 Series</p> <p>York-Predator</p> <p>Lennox-Energence & Landmark</p> <p>Trane-Voyager & President</p> <p>Trane-Intellipak</p> <p>Roof Top Control Systems.</p> <p>Servicing and troubleshooting of the associated microprocessor control modules. To include ignition and economizer boards.</p>	<p style="text-align: center;">Monday Nights</p> <p style="text-align: center;">8-nights</p> <p style="text-align: center;">Starting April 1, 2013</p> <p style="text-align: center;">Schedule to be supplied</p> <p style="text-align: center;">6:30pm to 9:30pm @ T.C. Brampton</p>	
<p style="text-align: center;">Flame Safeguard Controls</p> <p style="text-align: center;"><i>16 participants max</i></p>	<p style="text-align: center;">Theory, Operation, Installation, and Retrofit</p> <p>This course introduces the student to Flame Sensing Technologies used in modern burner controls. Both Honeywell and Fireye Flame Safeguards will be studied, first the primary control type, then "high end" programming controls.</p> <p>Some practical work with Flame Safeguards will be undertaken, therefore the student will need to be prepared with hand tools and a multimeter (Cat 3 Certified). Relevant Safety equipment will be needed by the student for the practical work. (safety eye and footwear a minimum).</p>	<p style="text-align: center;">Week-End</p> <p style="text-align: center;">Saturday & Sunday</p> <p style="text-align: center;">8:30am to 4:30pm</p> <p style="text-align: center;"><i><u>1-Week-End</u></i></p> <p style="text-align: center;">November 17 & 18 2012</p> <p style="text-align: center;">@ T.C. Brampton</p>	

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JTAC Program Registration Form

2012-2013

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

Program Selection	Description	Dates & Locations	Choice
Nights Basic <u>Electronic</u> Theory <i>*Recommended before the EMC course*</i>	<p>Designed to present the basic fundamentals of Electronics pertaining to the HVAC & R Industry.</p> <p>Some hands-on lab work will be included</p>	<p>Thursdays 6-nights 6:30pm to 9:30pm Starting January 10, 2013 @ T.C. Brampton Schedule to be supplied</p>	
Nights Motor Technology and The ECM (electronically commutated motor)	<p>This is the Fractional Horse Power replacement of the future</p> <p>A complete review of motor technologies and starting techniques.</p> <p>Understanding and working with the ECM variable speed system, . Evergreen ECM replacement motors</p> <p><i>Plus: new Communications and data logging using MS Excel</i></p>	<p>Thursdays 6-nights 6:30pm to 9:30pm Starting February 28, 2013 @ T.C. Brampton Schedule to be supplied</p>	
Variable Frequency Drive-Basics <i>12 Students max.</i>	<p>This course will provide an over-view of current drive fundamentals, operation and maintenance.</p> <p>Lab work included</p>	<p>Week-End December 1 & 2, 2012 8:30am to 4:30pm @ T.C. Brampton</p>	
Variable Frequency Drives-Advanced <i>12 Students max.</i>		<p>January 19 & 20, 2013 8:30am to 4:30pm @ T.C. Brampton</p>	
PLC Basics <i>12 Students Max</i>	<p>PLC Basics as applied to the HVACR industry</p> <p>Course will cover numbering systems, ladder logic and communications with an emphasis on hands-on labs. PLC models covered will be Allen-Bradley, Omron, Telemecanique and LG</p>	<p>Week-End January 12 & 13, 2013 8:30am to 4:30pm @ T.C. Brampton</p>	
Screw Compressors Theory & Operation	<p>An overview of various compressors and their applications will be studied. The operation, maintenance and servicing of popular types will be presented. Topics include:</p> <ul style="list-style-type: none"> • Single drive rotor design with spur rotors • Twin helical parallel rotors • Tri parallel rotors • Various types of capacity control • Gear driven or an intermesh rotor and drive rotor • Multi stage compound screw compressors • Various application styles of Hot Gas Bypass 	<p>Thursday Night February 21, 2013 6:30pm to 9:30pm @ T.C. Brampton</p>	

Name _____ . UA Card # _____ . Phone # _____

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



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. 463/10
Ozone Depleting Substances
Fluorocarbon Refrigerants Handling
Form for New/Expired or Renewal of Certificates

Please print clearly and note that the Certificate will be sent to the home address provided.
Select the appropriate box below and mark with an X

New Certificate Expired Certificate Renewal Certificate

ODP Card #: _____ Expiry date: _____

Name: _____ U/A card # _____

313A/313D Certificate: _____ E-mail: _____

Home Address: _____ Apt/Unit # _____

City: _____ Postal Code: _____

Home Phone: _____ Work/Cell: _____

Present Employer: _____

As per the requirements of O. Reg. 463/10 Section 34.(4)(b), a \$50 administration fee will be deducted from the member's training allowance for non-expired re-certification.

New certification or expired re-certification will have an administration and material fee deduction of \$200 from the member's training allowance. *Expired certificates require that the person attend a full day certification program and pass the exam. A Passing grade of 75% is required* for certification.

Information below is to be completed only for new or expired ODP Certifications.

Instructor Name: _____ Instructor Signature: _____

Course Name & Code: ODP 463/10- _____ Date: _____

For Office Use Only:

ODP Mark: _____ Pass Rewrite required