

**ARPEC: Roster of Journeyman Training Classes**

CEU year: July 1 - June 30, 2020

TOPIC	CLASS #	Class name	CEUs apply to:			CEU credit hours	Applies to Service Fitting Both	Weeknight / Saturday	Max participants	Date *	Instructor	Description
			CBA	County Journeyman License								
1	REF	100	Refrigeration: Circuit Troubleshooting	Y	N	7	S	S	15	9/14/19	Jose Rivera	Participants will learn how to identify and troubleshoot issues within a refrigerant circuit.
2	REF	200	Refrigeration: Rack Refrigeration	Y	N	14	S	WN	15	9/10/2019, 9/17/2019, 9/24/2019, 10/1/2019	Jesus Hernandez	Participants will learn to perform service and repair of parallel refrigeration systems.
3	MOT	110	Motors: Pump Alignment	Y	Y	8	S/P	WN	15	9/18/2019, 9/25/2019 * Offered again 1/15/2020, 1/22/2020	Michael Didona	Participants will learn how to identify misalignment's, correct usage of a dial indicator and proper alignment procedures.
4	RIG	100	Rigging: Rigging Techniques	Y	Y	16	S/P	S	15	10/5/2019, 10/12/2019	Michael Didona	Participants will learn the fundamentals of rigging safety including correct procedures.
5	CHI	200	Chillers: Maintenance and Operation of Daikin Applied screw chillers	Y	N	7	S	S	10	10/12/2019 * class offered again 11/16/2019	Victor Soto	Participants will learn about a variety of subjects related to Daikin oil-less centrifugal, magnetic and screw chillers.
6	CHI	210	Chiller Troubleshooting: Maintenance and Operation of Trane & York centrifugal chillers	Y	Y	8	S	S	20	10/12/19	William Young	Participants will learn how to troubleshoot Trane CVHE, Water-Cooled and Rotary Liquid (RTHB) CenTraVac™ chillers, and York model YK/YT centrifugal liquid chillers, including shop time.
7	ELE	100	Electric Controls I	Y	Y	8	S/P	WN	15	10/24/2019, 10/31/2019	Craig Ponton	Participants will learn how to read and wire basic electrical diagrams, as well as draw basic electrical circuits and properly troubleshoot with multimeters.
8	WEL	300	Advanced welding: Gas tungsten arc welding (GTAW / TIG)	Y	N	8	P	S	12	10/19/19	Kishon Dryden	Participants will learn arc welding safety and proper techniques for GTAW/TIG welding.
9	PIP	200	Pipefitting: Intermediate trigonometry	Y	Y	8	P	S	10	10/19/19	Brian Coile	Participants will learn basic trigonometry functions, the use of the trig table for solving odd degree angles/triangles, how to find take-offs, and laying out of fittings less than 90 degree, miters and special offsets.
10	VFD	300	Variable Frequency Drives (VFD)	Y	Y	16	S	S	15	11/2/2019 11/9/2019	Luis Lopez	Day 1: Participants will receive an introduction to VFD, they will learn the different components, how to troubleshoot, and how to set up a factory start up. Day 2: Participants will learn programming; programming close loop/open loop, pin loop controls, participants will learn low voltages termination, and how to integrate to the EMS.
11	CHI	100	Chillers: Annual System Maintenance and Operation	Y	N	7	S	WN	15	11/6/2019, 11/13/2019 * class offered again 5/9/2020	Jorge Hernandez	Participants will learn how to perform annual chiller inspections and maintenance.
12	CT	100	Water Treatment Service / Chemical Treatment for HVAC Cooling Towers	Y	N	1.5	S	WN	20	11/7/2019 * class offered again 3/12/2020	Manny Ferro	Participants will learn the fundamentals of water treatment procedures for cooling towers.
13	CHI	200	Chillers: Maintenance and Operation of Daikin Applied screw chillers	Y	N	7	S	S	10	11/16/19	Victor Soto	Participants will learn about Daikin oil-less centrifugal, magnetic and screw chillers.
14	CHI	100	Chillers: Annual System Maintenance and Operation	Y	N	7	S	S	15	11/23/2019 * class offered again 5/9/2020	Jorge Hernandez	Participants will learn how to perform annual chiller inspections and maintenance.
15	ELE	200	Electricity: Megging and Motor Windings	Y	N	3.5	S	WN	15	12/3/2019 * class offered again 5/19/2020	Robert Martin	Participants will learn how to use a megohmmeter or "megging" to determine if a compressor is functioning correctly, and how to properly
16	MEC	100	Mechanical: Compressor failure / Why compressors fail	Y	N	3.5	S	WN	15	1/14/20	Joseph Cerione	Participants will learn about the seven causes of compressor failure and how to prevent premature failures.
17	MOT	110	Motors: Pump Alignment	Y	Y	8	S/P	WN	15	1/15/2019, 1/22/2019	Jorge Hernandez	Participants will learn how to identify misalignments, correct usage of a dial indicator and proper alignment procedures.
18	MEC	110	Mechanical: Compressor failure / Clean up after burnout	Y	N	3.5	S	WN	15	1/21/20	Joseph Cerione	Participants will learn how to address compressor burnouts, proper system clean out procedure, and diagnosis of the cause of the problem. Prerequisite MEC 100 Why Compressors Fail.
19	WEL	200	Welding Concepts	Y	Y	16	P	S	15	2/1/2020, 2/8/2020	Michael Didona	Participants will learn about different welding concepts. This course is intended for pipefitters/welders only.

\* Dates shown are tentative and subject to change.

20	CH10	120	Chapter 10 of the Code of Miami-Dade County and Florida Statute 713 (Construction Lien Law)	Y	Y	2	S/P	S	25	2/8/2020 * class offered again 4/11/2020	Gerald Somerset	Chapter 10 of the Code of Miami-Dade County: this course will teach the attendants the requirements, licenses and specifics of the Miami-Dade County Code Chapter 10. Florida Statute 713 (Construction Lien Law); this Course will provide fundamentals information regarding the Florida Statutes Chapter 713 mechanic's lien.
21	ELE	110	Electricity: Introduction to Multimeter and Troubleshooting	Y	N	4	S/P	S	15	2/8/2020 * class offered again 4/25/2020	Luis Campos	Participants will learn how to properly use their (VOM) Volt Ohm Meter, and basic electrical troubleshooting skills.
22	WEL	200	Welding: Brazing with Dissimilar Metals (Class time)	Y	N	3.5	S/P	WN	10	2/20/2020 * class offered again 6/18/2020	Hector Rivera	Participants will learn how to braze with dissimilar metals, and precautions to prevent galvanic galvanic corrosion.
23	WEL	201	Welding: Brazing with Dissimilar Metals (Shop time)	Y	N	3.5	S/P	WN	10	2/27/2020 * class offered again 6/25/2020	Hector Rivera	Participants will learn how to braze with dissimilar metals, and precautions to prevent galvanic galvanic corrosion. Prerequisite: Brazing with Dissimilar Metals 200.
24	RIG	100	Rigging: Rigging Techniques	Y	Y	16	S/P	S	15	3/7/2020, 3/14/2020	Michael Didona	Participants will learn the fundamentals of rigging safety including correct procedures.
25	SAF	100	Safety: Respiratory safety, asbestos and silica	Y	N	2.5	S/P	WN	25	3/10/20	Frank Gonzalez	Participants will learn about hazards of exposure to asbestos and crystalline silica in the workplace, including an overview of OSHA's new Respirable Crystalline Silica Standard, and how employees can protect themselves from overexposure to respirable silica.
26	CT	100	Water Treatment Service / Chemical Treatment for HVAC Cooling Towers	Y	N	1.5	S	WN	20	3/12/20	Manny Ferro	Participants will learn the fundamentals of water treatment procedures for cooling towers.
27	SAF	110	Trenching and Evacuation	Y	N	2	S/P	WN	25	4/9/20	Frank Gonzalez	Participants will learn how to work safely in confined spaces, the hazards of excavation and trenching, including an overview of the OSHA Excavation Standard and how employees can protect themselves on a jobsite.
28	CH10	120	Chapter 10 of the Code of Miami-Dade County and Florida Statute 713 (Construction Lien Law)	Y	Y	2	S/P	S	25	4/11/2020	Gerald Somerset	Chapter 10 of the Code of Miami-Dade County: this course will teach the attendants the requirements, licenses and specifics of the Miami-Dade County Code Chapter 10. Florida Statute 713 (Construction Lien Law); this Course will provide fundamentals information regarding the Florida Statutes Chapter 713 mechanic's lien.
29	PNE	101	Basic Pneumatic Controls I	Y	Y	8	S	WN	15	4/14/2020, 4/21/2020	Josue Labrador	Day 1: Participants will learn about fundamentals of pneumatics, parts identification, installation and maintenance of pneumatic parts. Day 2: Participants will learn how to troubleshoot pneumatics, calibrating components, introduction of VAV's and air compressor maintenance. Prerequisite: Pneumatics 100.
30	ELE	110	Electricity: Introduction to Multimeter and Troubleshooting	Y	N	4	S/P	S	15	4/25/20	Luis Campos	Participants will learn how to properly use their (VOM) Volt Ohm Meter, and basic electrical troubleshooting skills.
31	ELE	100	Electric Controls I	Y	Y	8	S/P	S	15	5/2/20	Craig Ponton	Participants will learn how to read and wire basic electrical diagrams, as well as draw basic electrical circuits and properly troubleshoot with multimeters.
32	SCP	130	Service Concepts	Y	Y	16	S/P	S	15	5/2/2020, 5/9/2020	Joseph Cerione	Participants will learn Basic Refrigeration and Basic Electricity.
33	CHI	100	Chillers: Annual System Maintenance and Operation	Y	N	7	S	S	15	5/9/20	Robert Martin	Participants will learn how to perform annual chiller inspections and maintenance.
34	ELE	200	Electricity: Megging and Motor Windings	Y	N	3.5	S	WN	15	5/19/20	Robert Martin	Participants will learn how to use a megohmmeter or "megging" to determine if a compressor is functioning correctly, and how to properly
35	BOI	100	Introduction to Boilers	Y	N	7	S/P	WN	15	6/2/2020, 6/9/2020 * class offered again 9/22/2020, 9/29/2020	Jorge Hernandez	Participants will learn Boiler fundamentals, understanding of the hot water loop, different type of terminal units and hot water control theory.
36	PIP	100	Pipefitting: Using Victaulic couplings	Y	N	3.5	S/P	WN	8	6/3/20	Kenneth Appollo	Participants will learn fundamentals of Victaulic grooved couplings and fitting, machine operation and proper installation. This class will include classroom instruction, and hands on application.
37	WEL	200	Welding: Brazing with Dissimilar Metals	Y	N	3.5	S/P	WN	10	6/18/20	Hector Rivera	Participants will learn how to braze with dissimilar metals, and precautions to prevent galvanic galvanic corrosion.
38	WEL	201	Welding: Brazing with Dissimilar Metals (Shop time)	Y	N	3.5	S/P	WN	10	6/25/2020	Hector Rivera	Participants will learn how to braze with dissimilar metals, and precautions to prevent galvanic galvanic corrosion. Prerequisite: Brazing with Dissimilar Metals 200.

237	TOTAL
Weeknight	20
Weekend	18
Total	38
% Weeknight	53%

Explanation of course numbering system:

**100-199:** Introductory and beginning courses

**200-299:** Intermediate-level courses.

**300-399:** Master-level courses.

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				CBA	County Journeyman License	CEU credit hours							
1	RF	100	Radio Rooftop Safety	Y	Y	4	S/P	WN	15	7/20/20	Craig Ponton	This course is intended to introduce HVAC technicians to what is RF and provide awareness on how it can effect the human body. This class will also provide instruction on how to mitigate overexposure to RF as well.	
2	REF	200	Refrigeration: Rack Refrigeration	Y	Y	16	S	WN	15	9/1/2020, 9/8/2020, 9/15/2020, 9/22/2020	Jesus Hernandez	Participants will learn to perform service and repair of parallel refrigeration systems.	
3	BOI	100	Introduction to Boilers	Y	N	7	S/P	WN	15	9/22/2020, 9/29/2020	Jorge Hernandez	Participants will learn Boiler fundamentals, understanding of the hot water loop, different type of terminal units and hot water control theory.	
4	CHI	110	Chilled Water Design	Y	N	24	S/P	WN	15	10/13/2020, 10/20/2020, 10/27/2020, 11/10/2020	Jesus Hernandez	This course is for Journeyman workers who perform service to chilled water plants. This course addresses procedures for troubleshooting chilled Water systems.	
						51	TOTAL						
						Weeknight			4				
						Weekend			0				
						Total			4				
						% Weeknight			100%				

Explanation of course numbering system:

**100-199:** Introductory and beginning courses

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