...the right choice **Journeyman Upgrade** and Continuing **Education Course** Catalog 2024-25

August 2024

Dear Member,

Enclosed you will find the Continuing Education Course Catalog for the 2024-2025 educational session. After examining this catalog and making your final selections, please print and fill out the registration form. You should receive notification that the Training Alliance has you registered for your classes. If you have any questions regarding your selections or registration, please call the apprenticeship office during regular office hours, Monday through Friday. Please make every effort to attend those classes that you register for. Good luck in all of your endeavors.

Yours in Brotherhood,

Timothy Wisyanski Training Director

then E

Ronald Ewing

Assistant Training Director

Rachel Hienz

Assistant training Director

Mailing Address

Joint Apprenticeship and Training

5 Hot Metal Street

Suite 100

Pittsburgh, Pennsylvania 15203

Phone Number

412-432-1145

Fax Number

412-431-4614

5 PITTSBURG

The Code of Excellence is a program designed to bring out the best in our construction members and demonstrate to our customers that IBEW members:

CODE OF EXCELLENCE

IBEW

Perform the highest quality and quantity of work

• Utilize their skills and abilities to the maximum

Exercise safe and productive work practices

The Code of Excellence is not only about an IBEW job built right the first time, on schedule and under budget; it is also about pride in IBEW membership and craftsmanship and leaving a lasting impression of quality workmanship with the customer... thus, prompting him to again employ the IBEW on future projects. The Code of Excellence program is also a means to build and project positive attitudes about who we are and the work we do... on and off the job.

Local Union training with respect to the Code of Excellence program may be facilitated by an International Representative but, regardless of delivery method or by whom, the Code of Excellence program training is to convey a strong message that IBEW construction members will:

- Come to work on time, fit for duty and ready to work.
- Obey recognized customer and employer rules.
- Demonstrate zero tolerance for alcohol and substance abuse.
- Exercise proper safety, health and sanitation practices.

Own up to '8 for 8' and be on the job unless otherwise allowed or authorized to leave. Follow safe, reasonable and legitimate management directives.

Encourage respect for the customer's rights and property, as well as for others on the job. eXercise the skills and abilities of the trade.

Care for tools and equipment provided by the employer.

Eliminate waste and other forms of property destruction, including graffiti.

Limit lunch and break times to allocated periods; adhere to established start and quit times. Leave inappropriate behavior to those of lesser knowledge.

Employ the proper tools for the job and maintain personal tool responsibilities.

do Not solicit funds or sell merchandise without the Business Manager's approval.
Curtail idle time or pursuit of personal business during work hours, including cell phone use.
Expel job disruptions and refuse to engage in slowdowns or activities designed to extend the job or create overtime or any other conduct that cast the IBEW in a bad light.

Solution to the Code of Excellence program. IBEW 'rank and file' members honoring the Code of Excellence program. IBEW 'rank and file' members honoring the Code of Excellence program. IBEW 'rank and file' members honoring the Code of Excellence program. IBEW 'rank and file' members honoring the Code of Excellence program. Will a corresponding obligation to the Code of Excellence program. IBEW 'rank and file' members honoring the Code of Excellence program will rightfully have similar expectations of Brothers and Sisters in management/supervision, with these being in the areas of:

- Management responsibilities to the collective bargaining agreement.
- Total acceptance of supervisory positions and related responsibilities.
- Communication and cooperation with the job Steward.
- Employee encouragement but, if necessary, fair and consistent discipline,
- Job safety, health and sanitation needs or requirements.
- Ample job layout/directions to minimize down time and maximize employee productivity.
- Availability and timely delivery of necessary materials.
- Proper number and type of tools and equipment to ensure job progress.
- Maintenance and upkeep of tools and equipment.
- Storage and protection of employer and employee tools and equipment.
 - Employ adequate number of employees to perform efficiently or, conversely, limit number of employees to the work at hand.



Residential Wireman to Journeyman Wireman Upgrade Program of <u>Studies</u>

<u>Members Who Completed the IBEW Local Union #5 Residential</u> <u>Wireman Apprenticeship Need to Complete the Following Courses</u> <u>before Becoming a Journeyman Wireman:</u>

Course Title	Completion Date	Comments
Basic Tele-Data (Hands-on)		4/10
Blueprint Reading / Building		
Information Modeling (BIM)		
Conduit Bending		
Fire Alarm		
First Aid / CPR / Defibrillation		
Motor Controls		130-2-3
OSHA 10 Hour		
70E Safety Related Work	S I C C C C C C C C C C C C C C C C C C	(00)
Practices		



Organized Residential Wireman to Journeyman Wireman Upgrade Program of Studies

Members Who Were Organized into the IBEW Local Union #5 as a Residential Wireman Need to Complete the Following Courses Before Becoming a Journeyman Wireman:

Course Title	Completion Date	Comments
AC Theory		
Applied Codeology		
Basic Tele-Data (Hands-on)		
Blueprint Reading / Building Information Modeling (BIM)	1	E I
Conduit Bending		
DC Theory		
Fire Alarm		
First Aid / CPR / Defibrillation		0
Motor Contro <mark>ls</mark>		1 10 10
OSHA 10 Hour		
70E Safety Related Work Practices		



Telecommunications Installer Program of Studies

Telecommunications Installer to Telecommunications Technician Program

-0400D 0-

Course Title	Completion Date	Comments
Basic Tele-Data (Hands-on)		
Blueprint Reading / Building		6
Information Modeling (BIM)		
Conduit Bending		
First Aid / CPR / Defibrillation		
Fusion Splicing I		655
Fusion Splicing II		
ICRA		
OSHA 10 Hour		12-19

Telecommunications Installer to Journeyman Wireman Program

Course Title	Completion Date	Comments
AC Theory		
Applied Codeology		
Blueprint Reading / Building		100 million (100)
Information Modeling (BIM)		
Conduit Bending		
DC Theory		and in the second
Fire Alarm	5	1611
First Aid / CPR / Defibrillation	U PITTORIN	
Motor Control	111300	
OSHA 10 Hour		
70E Safety Related Work		
Practices		

<u>Telecommunications Technician to Journeyman Wireman</u> <u>Program</u>

Telecommunications Technician Minimum Requirement Courses

Course Title	Completion Date	Comments
	and the second se	SUL
Basic Tele-Data (Hands-on)		
Blueprint Reading / Building		4/2
Information Modeling (BIM)		633
Conduit Bending		
First Aid / CPR / Defibrillation		
Fusion Splicing I	0000	Vis See
Fusion Splicing II	Sec. 1	No. of Concession
ICRA		
OSHA 10 Hour		and the second se

Telecommunications Technician to Journeyman Wireman Program

Course Title	Completion Date	Comments
AC Theory		
Applied Codeology		
Blueprint Reading / Building	second of the second	540
Information Modeling (BIM)		
Conduit Bending		CHA
DC Theory		
Fire Alarm		11-
First Aid / CPR / Defibrillation		
Motor Control		
OSHA 10 Hour		
70E Safety Related Work		
Practices		

Your Course Description and Schedule Packet

AL 5 PITTSBURGH

HERHOOD OF

Course Title / Code

AC Theory / 1A

Course Description

This is a very insightful class about AC Theory and the many different factors that affect it, including: inductance, capacitance, resistance, and overall impedance. This course is highly recommended for those who have entered the industry through organization. Members who are seeking to upgrade their classification need DC Theory first. Please refer to course titled 'DC Theory' for more information concerning DC Theory.

<u>Pre-requisite:</u>	Required Classroom Materials:
DC Theory (Course Code 6A)	Calculator
Basic Computer Skills	Straight Edge (Ruler)
Positive Attitude	Note Paper
	Highlighters
	Pencils
	The stheses is the stheses

Date(s):	February 15 th 2025 – April 26 th 2025
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	60 Hours
Class Size Min/Max:	None
Course Code:	1A

BURGH.

AL 5 PITT

Course Title / Code

Access Control / 2A

Course Description

This is a non-certification course introducing the fundamentals of access control wiring practices and hardware, along with troubleshooting. Programming, software, and technology behind the scenes will be demonstrated and discussed. Upon completion, participants will have a basic understanding of installation and termination techniques related to access control systems.

<u>Pre-requisites:</u>	Required Classroom Materials:
Positive Attitude	Calculator
	Notepaper
	Highlighters
	Pencils
Date(s):	February 8 th 2025 – February 15 th 2025
Day(s):	Saturdays
Times(s):	8:00am – 3:00pm
Approximate Classroom Time:	12 Hours
Class Size Min/Max;	Max 8

AL 5 PITTSBURGH

2A

Course Code:

Course Title / Code

Applied Codeology / 3A

Course Description

Use of the National Electric Code can be frustrating when you are unfamiliar with the layout of the document. This course will show you the 'Plan, Build, Use' method for better use and understanding of the Codebook. This easy to use method should make you much more comfortable using the NEC. The class may discuss a few of the more Significant Code Changes that have been implemented. Additionally we hope to introduce methods for important Code Calculations. The addition of a Significant Changes module and an introduction to Code Calculations alone should make this class a must see.

<u>Pre-requisites:</u>	Required Classroom Materials:
Basic Computer Skills	Calculator
Positive Attitu <mark>de</mark>	Notebook
	Highlighters
	Pencils
	2023 National Electric Code Tabs (Available from Amazon)
Date(s):	September 28 th 2024 – November 2 nd 2024
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	40 hours

3 PITTSBURG

None

3A

Class Size Min/Max:

Course Code:

Course Title / Code

Blueprint Reading, Building Information Modeling (BIM) / 4A

Course Description

This new and exciting offering includes the Electrical Training Alliances newly released Construction Drawings course as well as some of our more traditional Residential, Commercial and Industrial Blueprint Reading course offering. The exciting part is the inclusion of our Building Information Modeling (BIM) course. Your local training alliance has a Trimble Robotic Total Station (RTS) and the BIM program is up and running. After a short introductory information session, this part of the class will be nearly all hands on. Covered information will include:

-Proper assembly and setup of all equipment.

-Linking the Trimble tablet and its software with the RTS.

-Importing CAD files, locating and opening jobs for layout and creating new jobs.

-Measuring distances, layout points and collect points.

-Create job reports.

(This course has become popular and additional classes can be scheduled as needed.)

Pre-req	uisites

Basic Computer Skills

Positive Attitude

Required Classroom Materials:

Calculator

Notebook

Highlighters

Pencils

Straight Edge (Ruler)

Date(s):	September 28 th 2024 – November 23 rd 2024
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	54 Hours
Class Size Min/Max:	None
Course Code:	4A

Course Title / Code

Conduit Bending / 5A

Course Description

This is a hands-on course that uses all of the latest conduit tools. This could be an excellent review for journeyman as well as a great class for our recently organized members who have not been exposed to as much conduit work.

Pre-requisites:	Required Classroom Materials:
Positive Attitude	Notebook
Se la	Pencils
	Hand Tools
	Safety Glasses
	Gloves
Date(s):	January 18 th 2025 – February 22 nd 2025
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	36 Hours

AL 5 PITTSBURGH

Max 10

5A

Class Size Min/Max

Course Code

Course Title / Code

DC Theory / 6A

Course Description

The course will start with Ohm's Law and continue through simple series circuits. From there it will move through parallel and combination circuits. This is truly the base for all electrical theory. The course is highly recommended for those who have entered the industry through organization.

<u>Pre-requisites:</u>	Required Classroom Materials:
Basic Computer Skills	Calculator
Positive Attitude	Notebook
	Pencils
	Highlighters
	Straight Edge (Ruler)

Date(s):	November 16 th 2024 – February 1 st 2025
Day(s):	Saturdays
Time(s):	8:00 <mark>am – 3:00pm</mark>
Approximate Classroom Time:	60 Hours
Class Size Min/Max:	None
Course Code:	6A

AL 5 PITTSBURGH

Course Title / Code

70E Electrical Safety Related Work Practices / 7A

Course Description

There are several different factors that must be considered when discussing electrical safety. This course will try to address issues that are often overlooked that could potentially be fatal if not dealt with properly. The goals we would like to achieve in this course include the following:

- Increased awareness by identifying electrical hazards.
- Achieve a better understanding of the NFPA 70E publication.
- Realize all of the protective equipment available to us, as well as understanding the proper use of protective equipment.
- Learn how to develop an electrically safe work condition.

This course could be scheduled for additional times as needed.

<u>Pre-requisites:</u>	Required Classroom Materials:
Basic Comput <mark>er Skills</mark>	Calculator
OSHA 10 Ho <mark>ur is recommended (Course</mark>	Notebook
Code 19A)	Pencils
Positive Attitude	
Date(s):	January 18 th 2025 – February 15 th 2025
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	36 Hours
Class Size Min/Max:	None
Course Code:	7A

2 5 PITTSBURGH

Course Title / Code

Electrical Vehicle Charging Systems (EVCS-17) Based on 2017 NEC / 8A

Course Description

The Electric Vehicle Charging Systems course serves as an instructional primer for the Electric Vehicle Infrastructure Training Program (EVITP) Certification Exam. The course provides an introduction of charging products and associated equipment on the market today. Electrical Workers completing this training go to work with the ability to implement best practices in areas such as charging station equipment, infrastructure site assessment, load calculation, installation, commissioning, and troubleshooting. Through an agreement with EVITP, their certification exam is provided at the conclusion of this course. *This course will be when the class filled and as needed! Please call and reserve your seat now! The past year saw tremendous interest and the class was conduct several times.*

<u>Pre-requisites:</u>	Required Classroom Materials:
Basic Comput <mark>er Skills</mark>	Calculator
Positive Attitude	Notebook
	Pencils
Date(s):	Will Be Held When Class is Filled
Day(s):	Tuesdays and Thursdays
Time(s):	5: <mark>30pm – 9:00</mark> pm
Approximate Classroom Time:	18 Hours
Class Size Min/Max:	8/12
Course Code:	8A

AL 5 PITTSBURGH

Course Title / Code

Energy Storage and Micro-gridding (ESAM) 9A

Course Description

Participants will gain greater understanding of energy management using our new lab. This lab is capable of demonstrating common energy storage solutions for work and home. The lab is also able to simulate a micro-grid or stand-alone system. Topics covered include: NEC code compliance, battery safety and energy management.

<u>Pre-requisites:</u>	Required Classroom Materials:
Positive Attitude	Calculator
	Notebook
	Pencils
Date(s):	March 8 th 2025 – March 22 nd 2025
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	24 Hours
Class Size Min/Max:	8/8
Course Code:	9A

AL 5 PITTSBURGH

Course Title / Code

Fire Alarm / 10A

Course Description

The newly installed Fire Alarm Lab at your JATC offers practical **hands-on** experience with popular brand name equipment like *Silent Knight* and *Fire Lite*. In addition to working with new control panels, each station has new Flow and Tamper equipment, horn-strobe assemblies, pull stations, smoke detectors, heat detectors, and much more. In fact, this summer we are adding Voice Evacuation and Fire Phone Panels. Each student will install wire, terminate devices and program their own system. Designed to take the mystery out of a fire alarm system. Countless hours were devoted to this new lab and we hope our members take advantage of the hands-on class.

None

Pre-requisites

Required Classroom Materials:

Positive /	Attitude
------------	----------

	(contraction of the second sec
Date(s):	October 5 th 2024 – November 9 th 2024
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	36 Hours
Class Size Min/Max:	Max 8
Course Code:	10A

4/ 5 PITTSBURGH

Course Title / Code

First Aid / CPR / Defibrillation / 11A & B

Course Description

The time spent in this class will definitely offset the helpless feeling incurred when a family member, friend or co-worker is in need. This is a Coyne First Aid / CPR class. Completion cards will be issued for use at jobsites and employers that may require it. This course is for adult CPR only, not for children.

Pre-requisites:

Required Classroom Materials:

Positive Attitude

Notebook

Pencils

Date(s):	December 3 rd 2024 – December 12 th 2024
Day(s):	Tuesday - Thursday
Time(s):	6:00pm – 9:00pm
Approximate Classroom Time:	12 Hours
Class Size Min/Max:	Max 10
Course Code:	11A

Date(s):	May 17 th 2025 – May 24 th 2025
Day(s):	Saturday
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	12 Hours
Class Size Min/Max:	Max 10
Course Code:	11B

S PITTSBURG

Course Title / Code

Fusion Splicing I / 12A-12B

Course Description

This course features advanced hands-on fiber optic splicing procedures and techniques. Fusion splicing is the act of joining two optical fibers end to end using heat and is accomplished with a Fusion Splicing Machine. The object of this course is to address fusion splicing specialization and familiarize the student with fiber optic preparation and management, stripping, cleaning, and cleaving techniques.

Prerequisites:

Positive Attitude

Required Classroom Materials:

Notebook

Pencils

Date(s):	October 5 th 2024 – October 19 th 2024
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	24 Hours
Class Size Min/Max:	Max 10
Course Code:	12A

Date(s):	March 1 st 2025 – March 15 th 2025
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	24 Hours
Class Size Min/Max:	Max 10
Course Code:	12B

Course Title / Code

Fusion Splicing II / 13A

Course Description

This course continues the Fusion Splicing I techniques, to include breakout and prep of higher strand count fiber cables. It also introduces fiber splice tray organization, and OTDR testing. Finally, multiple types of fiber optic connectorization techniques commonly used in industry will be discussed and demonstrated. A prerequisite to this course is Fusion Splicing I.

Prerequisites:	Required Classroom Materials:
Positive Attitude	Notebook
	Pencils
Date(s):	November 2 nd 2024 – November 9 th 2024
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	16 Hours
Class Size Min/Max:	Max 10
Course Code:	13A

RCAL 5 PITTSBURGH PR

Course Title / Code

Grounding and Bonding / 14A-14B

Course Description

This is a new course offering that will address any of your concerns with Grounding and Bonding. The course is intended to simplify the rules of grounding and bonding. Concentration is upon application of Article 250 of the National Electrical Code 2023.

Prerequisites:	Required Classroom Materials:
Positive Attitude	2023 NEC
	Notebook
	Pencils
	Highlighters
Date(s):	April 5 th 2025
Day(s):	Saturdays

Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	6 Hours
Class Size Min/Max:	None
Course Code:	14A

Date(s):	April 19 th 2025
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	6 Hours
Class Size Min/Max:	None
Course Code:	14B

Course Title / Code

ICRA (Infection Control Risk Assessment) / 15A

Course Description

This is an infection control safety awareness course developed and maintained by UPMC. As of November of 2012, all construction tradesmen working in a UPMC facility must have completed this course. Reserve your spot now for early compliance. Remember, those that have not completed the course are not eligible to work on a UPMC jobsite. If the dates listed below fill to capacity, others will be scheduled as needed.

Pre-requisites:

Required Classroom materials:

Positive Attitude

Pencils

Notebook

Date(s):	October 19 th 2024
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	8 Hours
Class Size Min/Max	Max 15
Course Code	15A

41 5 PITTSBURGH

Course Title / Code

Instrumentation and Calibration – Part A / 16A & 16B

Course Description

This course is designed to familiarize a potential technician with various electrical and mechanical devices utilized in automated process control systems. These devices measure changes in process variables such as pressure, level, flow and temperature and convert the sensed reading to an electrical input signal to a controller. Upon completion you should be familiar with industry terminology, documentation and calibration procedures, various test instrument and process control instruments.

Upon completion of the course you may be eligible to take the EPRI (Electrical Power Research Institute) Part A qualification exam.

Please be aware that this course requires a major commitment from you. There is 70 hours of classroom work scheduled with additional study/review time and homework.

<u>Pre-requisites:</u>	Required Classroom Materials:
DC Theory (C <mark>ourse Code 6A)</mark>	Notebook
AC Theory (C <mark>ourse Code 1A)</mark>	Pencils
Basic Compute <mark>r Skills</mark>	Highlighters
Positive Attitude	Calculator

Date(s)	October 12 th 2024 – December 21st 2024
Day(s)	Saturdays
Time(s)	8:00am – 3:00pm
Approximate Classroom Time:	70 Hours
Class Size Min/Max:	Max 10
Course Code:	16A

Date(s):	February 8 th 2025 – April 19 th 2025
Day(s)	Saturdays
Time(s)	8:00am – 3:00pm
Approximate Classroom Time:	70 Hours
Class Size Min/Max	Max 10
Course Code	16B

Course Title / Code

Instrumentation and Calibration – Part B / 17A & 17B

Course Description

After successfully completing the Instrumentation and Calibration – Part A course (Course Code 16A & 16B) and passing the EPRI Part A exam, you will be eligible to take the EPRI Part B exam. This class is designed to prepare you for that test by covering fundamental calibration procedures utilizing various test instruments as well as virtual testing labs.

This course requires a major commitment from you. The scheduled classroom time is 40 hours with additional study/review time and homework. Please be aware that your EPRI Part A certificate expires after three years without your Part B certificate. Additionally, the Part B certificate expires every three years. Members who need to re-certify before your three year certificate expires should seriously consider taking this course prior to your re-testing.

Pre-requisites:	Required Classroom Materials:
Instrumentati <mark>on and Calibrat</mark> ion Part A	Notebook
(Course Code <mark>16A & 16B)</mark>	Pencils
Successful Completion of EPRI Part A Exam	Highlighters
Basic Compute <mark>r Skills</mark>	Calculator
Positive Attitude	

Date(s)	October 12 th 2024 – December 7 th 2024
Day(s)	Saturdays
Time(s)	<mark>8:00am – 3:00</mark> pm
Approximate Classroom Time:	40 Hours
Class Size Min/Max	Max 10
Course Code:	17A

Date(s):	March 8 th 2025 – April 19 th 2025
Day(s)	Saturdays
Time(s)	8:00am – 3:00pm
Approximate Classroom Time:	40 Hours
Class Size Min/Max:	Max 10
Course Code:	17B

Course Title / Code

Motor Controls / 18A

Course Description

This course provides a foundation for motor control theory. Participants will develop ladder diagrams demonstrating common motor control functions such as; hand-off-auto controls, forward and reversing controls and timing circuits. The participant will also have the opportunity to demonstrate their hands on skills in our newly updated motor control lab. Classes are sized so that everyone has their own project bucket and remote motor station.

<u>Pre-requisites:</u>	Required Classroom Materials:
DC Theory (Course Code 6A)	Notebook
AC Theory (Course Code 1A)	Pencils
Positive Attitude	Calculator
	Hand Tools
	Safety Glasses
	Gloves

Date(s):	January 4 th 2025 – February 22 nd 2025
Day(s)	Saturdays
Time(s)	<mark>8:00am – 3:00</mark> pm
Approximate Classroom Time:	48 Hours
Class Size Min/Max	Max 12
Course Code	18A

2 5 PITTSBURGH

Course Title / Code

Orientation / 19A

Course Description

This session was just added this year with the hope of preparing the participant for their upcoming classes. Some of the classes require books to be distributed; some others are computer driven and may require registration, Log-on help and more. If a recently organized individual is only attending their first classes, a tour of the facility can be arraigned. Overall, this session will introduce you to the Training Alliance, educate you on the mission and goals of the Training Alliance and prepare you for the rigors of continuing education and the upgrade process.

<u>Pre-requisites:</u>	Required Classroom Materials:
Positive Attitude	Notebook
	Pencils
Date(s):	September 21 st 2024
Day(s)	Saturdays
Time(s)	8:00am – 3:00pm
Approximate Classroom Time:	6 Hours
Class Size Min/Max	None
Course Code	19A

91 5 PITTSBURGH

Course Title / Code

OSHA 10 Hour Awareness Course / 20A & B

Course Description

This course deals with the most important part of our industry, your safety. This is a 10-hour course that will be kept as industry specific as possible. Topics may include; Electrical Safety, Ladders, Stairways, Personal Protective Equipment, Lockout Tag-Out and Fall Protection. *Many jobsites, contractors and customers are now requiring at least an OSHA-10 hour completion card issued within the past 3 years. Please consider this class for upgrade purposes. More classes will be added as necessary.*

<u>Pre-requisites:</u>	Required Classroom Materials:
Positive Attitude	Notebook
	Pencils
	Highlighters
Date(s):	April 29 th 2025 – May 8 th 2025
Date(s): Day(s):	April 29 th 2025 – May 8 th 2025 Tuesday - Thursday
Day(s):	Tuesday - Thursday
Day(s): Time(s):	Tuesday - Thursday 6:00pm – 9:00pm

Date(s):	November 9 th 2024 – November 16 th 2024
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	10 Hours
Class Size Min/Max:	5/40
Course Code:	20B

Course Title / Code

OSHA 30 Hour Awareness Course / 21A

Course Description

This course requires 30 hours of training. It is a more comprehensive course for all members, especially those that may be Safety Directors, Project Managers, or Forman who may need advanced training required by some projects.

Pre-requisites:

Required Classroom Materials:

Positive Attitude

Notebook

Pencils

Highlighters

Date(s):	December 7 th 2024 – January 11 th 2025
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	30 Hours
Class Size Min/Max:	5/40
Course Code:	21A

4/ 5 PITTSBURGH

Course Title / Code

Programmable Logic Control (PLC) / 22A

Course Description

Your JATC has completed a new Programmable Logic Control (PLC) lab experience that will challenge its participants to learn about the advantages and applications of the PLC. This will include the installation, wiring and basics of programming the Allen Bradley Logix line of PLC utilizing the Studio 5000 programming software.

<u>Pre-requisites</u> Positive Attitude	Required Classroom Materials:	
	Notebook	
	Pencils	
	Highlighters	
	Calculator	
Date(s):	January 11 th 2025 – January 18 th 2025	
Day(s):	Saturdays	
Time(s):	8:00am – 3:00pm	
Approximate Classroom Time:	12 Hours	
Class Size Min/Max:	8/10	
Course Code:	22A	

AL 5 PITTSBURGH

Course Title / Code

Tele-Data Basics / 23A

Course Description

The JATC is once again offering a short, hands on course geared towards the Residential Wireman upgrading to the Journeyman Wireman classification. During this course, you will learn the skills necessary to terminate Co-Axial, Fiber Optic, and Twisted Pair cabling with a minimal amount of theory behind the processes. While this is geared towards the RW to JW classification change, all members are invited and encouraged to take this course.

Prerequisites:	Required Classroom Materials:
Positive Attitude	Notebook
	Pencils
Date(s):	December 14 th 2024 – December 21 st 2024
Day(s):	Saturdays
Time(s):	8:00am – 3:00pm
Approximate Classroom Time:	24 Hours
Class Size Min/Max:	8/10
Course Code:	23A

41 5 PITTSBURGH

Course Title / Code

Transformers / 24A

Course Description

This program will use a transformer trainer to review your knowledge of the Delta and Wye connections, step-up vs. step-down, single winding and dual winding high/low configurations. Once the review is completed we will move to a more realistic dry type transformer and practice landing the primary and secondary sides while discussing neutral connections and proper grounding. If you have every experienced any confusion about transformers this class was designed for you.

Pre-requisites:

AC Theory (Course Code 1A)

Positive Attitude

Required Classroom Materials:

Notebook

Pencils

Highlighters

Calculator

Date(s):	March 1 st 2025 – March 8 th 2025
Day(s):	Saturdays
Time(s):	8:0 <mark>0am – 3:00pm</mark>
Approximate Classroom Time:	12 Hours
Class Size Min/Max:	8/10
Course Code:	24A

AL 5 PITTSBURGH

For Our Members Attending the Clearfield Facility

Please feel free to select from the following courses that will be offered at the Clearfield site. When enough interest is expressed, the members will be contacted and a start date will be decided on. When filling out you registration form, simply note the course code and title on the form.



Course Title / Code

Basic Tele-Data (Hands-on) / C1

Course Description

The JATC is now offering a short, hands-on course geared towards the Residential Wireman upgrading to the Journeyman Wireman classification. During this course, you will learn the skills necessary to terminate Co-Axial, Fiber Optic, and Twisted Pair cabling with a minimal amount of theory behind the processes.

Pre-requisites:

Required Classroom Materials:

Positive Attitude

Notebook

Pencils

Date(s)	Will Be Held When Class Is Filled
Day(s)	TBD
Time(s)	TBD
Approximate Classroom Time	32 Hours
Class Size Min/Max	8/10
Course Code	C1

41 5 PITTSBURGH

Course Title / Code

Blueprint Reading / C2

Course Description

This is an extensive blueprint reading course covering Basic Blueprint Reading Skills, Residential, Commercial and Industrial Blueprint Reading. The Commercial Blueprint Reading segment actually uses parts of the blueprint set from our own three building IBEW Local Union #5 campus.

Pre-requisites

Basic Computer Skills

Positive Attitude

Required Classroom Materials:

Calculator

Notebook

Highlighters

Pencils

Straight Edge (Ruler)

Date(s):	Will Be Held When Class Is Filled
Day(s):	TBD
Time(s):	TBD
Approximate Classroom Time:	36 Hours
Class Size Min/Max:	8/15
Course Code:	C2

41 5 PITTSBURGH

Course Title / Code

Conduit Bending / C3

Course Description

This is a hands-on course that uses all of the latest conduit tools. This could be an excellent review for journeyman as well as a great class for our recently organized members who have not been exposed to as conduit work.

Pre-requisites:	Required Classroom Materials:
Positive Attitude	Notebook
1 al	Pencils
	Hand Tools
	Safety Glasses
	Gloves
Data(a):	Mill De Held Miker Clease is Filled

Date(s):	Will Be Held When Class Is Filled		
Day(s):	TBD		
Time(s):	TBD		
Approximate Classroom Time:	36 Hours		
Class Size Min/Max	8/10		
Course Code	СЗ		

Course Title / Code

70E Electrical Safety Related Work Practices / C4

Course Description

There are several different factors that must be considered when discussing electrical safety. This course will try to address issues that are often overlooked that could potentially be fatal if not dealt with properly. The goals we would like to achieve in this course include the following:

- Increased awareness by identifying electrical hazards.
- Achieve a better understanding of the NFPA 70E publication.
- Realize all of the protective equipment available to us, as well as understanding the proper use of protective equipment.

•	Learn	how	to	develop	an	electrically	safe	work	condition.
Pre-re	equisites:					Required Clas	sroom N	<u>Materials:</u>	
Basic	Computer	Skills				Calculator			1
OSHA	10 Hour i	s recom	mende	d		Notebook			
Positi	ve Attitud	е				Pencils			
									FS .
Date(s):					Will Be Hel	d When	<mark>Class</mark> Is Fill	ed
Day(s):						TBD		Jacob I.

Day(s):	TBD
Time(s):	TBD
Approximate Classroom Time:	40 Hours
Class Size Min/Max:	8/15
Course Code:	C4

Course Title / Code

Electrical Vehicle Charging Systems (EVCS-17) Based on 2017 NEC / C5

Course Description

The Electric Vehicle Charging Systems course serves as an instructional primer for the Electric Vehicle Infrastructure Training Program (EVITP) Certification Exam. The course provides an introduction of charging products and associated equipment on the market today. Electrical Workers completing this training go to work with the ability to implement best practices in areas such as charging station equipment, infrastructure site assessment, load calculation, installation, commissioning, and troubleshooting. Through an agreement with EVITP, their certification exam is provided at the conclusion of this course. *This course will be when the class filled and as needed! Please call and reserve your seat now! The past year saw tremendous interest and the class was conduct several times.*

Pre-requisites:	Required Classroom Materials:
Basic Comput <mark>er Skills</mark>	Calculator
Positive Attitude	Notebook
	Pencils
Date(s):	Will Be Held When Class Is Filled
Day(s):	TBD
Time(s):	TBD
Approximate Classroom Time:	18 Hours
Class Size Min/Max:	8/12
Course Code:	C5

5 PITTSBURGH

Course Title / Code

Fire Alarm / C6

Course Description

The newly installed Fire Alarm Lab at your JATC offers practical **hands-on** experience with popular brand name equipment like *Silent Knight* and *Fire Lite*. In addition to working with new control panels, each station has new Flow and Tamper equipment, horn-strobe assemblies, pull stations, smoke detectors, heat detectors, and much more. Each student will install wire, terminate devices and program their own system. Designed to take the mystery out of a fire alarm system. Countless hours were devoted to this new lab and we hope our members take advantage of the hands-on class.

Pre-requisites

Positive Attitude

Required Classroom Materials:

None

Date(s):	Will Be Held When Class Is Filled		
Day(s):	TBD		
Time(s):	TBD		
Approximate Classroom Time:	36 Hours		
Class Size Min/Max:	8/8		
Course Code:	C6		

5 PITTSBURGH

Course Title / Code

First Aid / CPR / Defibrillation / C7

Course Description

The time spent in this class will definitely offset the helpless feeling incurred when a family member, friend or co-worker is in need. This is a Coyne First Aid / CPR class. Completion cards will be issued for use at jobsites and employers that may require it. This course is for adult CPR only, not for children.

Pre-requisites:

Required Classroom Materials:

Positive Attitude

Notebook

Pencils

Date(s):	Will Be Held When Class Is Filled		
Day(s):	TBD		
Time(s):	TBD		
Approximate Classroom Time:	10 Hours		
Class Size Min/Max:	8/10		
Course Code:	C7		

41 5 PITTSBURGH

Course Title / Code

Fusion Splicing / C8

Course Description

This course features advanced hands-on fiber optic splicing procedures and techniques. Fusion splicing is the act of joining two optical fibers end to end using heat and is accomplished with a Fusion Splicing Machine. This course will address the following: Fiber optic preparation including breakout of high strand count cables, management, stripping, cleaning, and cleaving techniques, tray organization, and OTDR testing.

Pre-requisites:

Required Classroom materials:

Positive Attitude

Pencils

Notebook

Date(s):	Will Be Held When Class Is Filled
Day(s):	TBD
Time(s):	TBD
Approximate Classroom Time:	8 Hours
Class Size Min/Max	8/15
Course Code	C8

41 5 PITTSBURGH

Course Title / Code

ICRA (Infection Control Risk Assessment) / C9

Course Description

This is an infection control safety awareness course developed and maintained by UPMC. As of November of 2012, all construction tradesmen working in a UPMC facility must have completed this course. Reserve your spot now for early compliance. Remember, those that have not completed the course are not eligible to work on a UPMC jobsite.

Pre-requisites:

Required Classroom materials:

Positive Attitude

Pencils

Notebook

Date(s):	Will Be Held When Class Is Filled		
Day(s):	TBD		
Time(s):	TBD		
Approximate Classroom Time:	8 Hours		
Class Size Min/Max	8/15		
Course Code	C9		

4/ 5 PITTSBURGH

Course Title / Code

Motor Controls / C10

Course Description

This course provides a foundation for motor control theory. Participants will develop ladder diagrams demonstrating common motor control functions such as; hand-off-auto controls, forward and reversing controls and timing circuits. The participant will also have the opportunity to demonstrate their hands on skills in our newly updated motor control lab.

<u>Pre-requisites:</u>	Required Classroom Materials:
DC Theory	Notebook
AC Theory	Pencils
Positive Attitude	Calculator
	Hand Tools
	Safety Glasses
	Gloves

Date(s):	October 14 th 20 <mark>24 – Novembe</mark> r 20 th 2024
Day(s)	Monday - Wednesday
Time(s)	3:0 <mark>0pm – 6:00</mark> pm
Approximate Classroom Time:	48 Hours
Class Size Min/Max	8/12
Course Code	C10

Course Title / Code

Orientation / C11

Course Description

This session was just added this year with the hope of preparing the participant for their upcoming classes. Some of the classes require books to be distributed; some others are computer driven and may require registration, Log-on help and more. If a recently organized individual is only attending their first classes, a tour of the facility can be arraigned. Overall, this session will introduce you to the Training Alliance, educate you on the mission and goals of the Training Alliance and prepare you for the rigors of continuing education and the upgrade process.

<u>Pre-requisites:</u>	Required Classroom Materials	
Positive Attitude	Notebook	
	Pencils	
Z	0	
Date(s):	September 21 st 2024	
Day(s)	Saturdays	
Time(s)	8:00am – 3:00pm	
Approximate Classroom Time:	6 Hours	
Class Size Min/Max	None	
Course Code	<u>C11</u>	

4/ 5 PITTSBURGH

Course Title / Code

OSHA 10 Hour Awareness Course / C12

Course Description

This course deals with the most important part of our industry, your safety. This is a 10-hour course that will be kept as industry specific as possible. Topics may include; Electrical Safety, Ladders, Stairways, Personal Protective Equipment, Lockout Tag-Out and Fall Protection. *Many jobsites, contractors and customers are now requiring at least an OSHA-10 hour completion card issued within the past 3 years. Please consider this class for upgrade purposes. More classes will be added as necessary.*

Pre-requisites:	Required Classroom Materials:		
Positive Attitude	Notebook Pencils		
	Highlighters		
Date(s):	Will Be Held When Class Is Filled		
Day(s):	TBD		
Time(s):	TBD		
Approximate Classroom Time:	10 Hours		
Class Size Min/Max:	8/25		
Course Code:	C12		

Course Title / Code

OSHA 30 Hour Awareness Course / C13

Course Description

This course requires 30 hours of training. It is a more comprehensive course for all members, especially those that may be Safety Directors, Project Managers, or Forman who may need advanced training required by some projects.

Pre-requisites:

Required Classroom Materials:

Positive Attitude

Notebook

Pencils

Highlighters

Date(s):	Will Be Held When Class Is Filled			
Day(s):	TBD			
Time(s):	TBD			
Approximate Classroom Time:	30 Hours			
Class Size Min/Max:	8/25			
Course Code:	C13			

41 5 PITTSBURGH

Registration Form

Please Print Neatly

(Las	t Name)	(First Name)		(MI) (Classification)
(Stre	eet Name)	ROTHERING	(State)	(City)	(Zip)
(Card Number) (S.S. Number)		(Daytime Ph. #	¥)	(Evening Ph. #)	
(E-m	ail Address)			-	(Local Union #)
8	<u>Course</u> <u>Code</u>	<u>Course Title</u>		<u>Day</u>	<u>Times</u>
1			342		and the second se
2					
3	1 - CT				23
4	and the second sec				

Carefully Review this checklist before completing this form.

- 1. Make sure that the phone numbers you supply are correct.
- 2. In the event that you move please notify the apprenticeship as soon as possible with address and phone number changes.
- 3. Please make sure that you can attend the class that you sign up for. Review the calendars and make sure that the dates that you select do not conflict with other important dates.
- 4. Please make sure that the classes you select do not conflict with each other.
- 5. Please pay attention to the necessary pre-requisites and try not to register for classes out of order.
- 6. Leave some time between classes. Remember that the listed times required are approximate and may be slightly longer or shorter.