

NOVEMBER 2025

GIPSON BEARING ALONG WITH SKF & GATES -BEARINGS, GREASE, BELTS & SHEAVES

4 Contact Hours
8AM—NOON

Date: November 4, 2025

Place: IUOE LOCAL 95 Hall

Instructor: Craig Gipson/SKF

Tuition:

Education Fund Members – \$0.00

Local 95 Members - \$190.00

Non-Members - \$250.00

Active Retirees—\$0.00

Approved for Stationary Engineer License



CHEMSEARCH: CHEMICAL SAFETY & SUSTAINABLE PRACTICES

4 Contact Hours
8AM—NOON

Date: November 5, 2025

Place: IUOE Local 95 Hall

Instructor: Dan Mikolajczak

Tuition:

Education Fund Members – \$0.00

Local 95 Members - \$190.00

Non-Members - \$250.00

Active Retirees—\$0.00

Approved for Stationary Engineer License

**** PLEASE SEE PAGES FOR COURSE**

DESCRIPTION!!



FILTECH FILTERS & AIR QUALITY

4 Contact Hours
8AM-NOON

Date: November 6, 2025

Place: IUOE LOCAL 95 Hall

Instructor: Andy Komar/Filtech

Tuition:

Education Fund Members – \$0.00

Local 95 Members - \$190.00

Non-Members - \$250.00

Active Retirees—\$0.00

Approved for Stationary Engineer & HVAC License



RIGGING TECHNIQUES & OVERVIEW for STATIONARY ENGINEERS

4 Contact Hours
8AM—NOON

Date: November 6, 2025

Place: IUOE Local 95 Hall

Instructor: Carl A Luisi Sr.

Tuition:

Education Fund Members – \$0.00

Local 95 Members - \$190.00

Non-Members - \$250.00

Active Retirees—\$0.00

Approved for Stationary Engineer License



NOVEMBER 2025

POWER QUALITY & HARMONICS

16 Contact Hours

5PM-9PM

Date: November 6, 13, 20 & December 4, 2025

Place: **IUOE LOCAL 95 Hall**

Instructor: Dan Kollar

Tuition:

Education Fund Members – \$0.00

Local 95 Members - \$760.00

Non-Members - \$1000.00

Active Retirees—\$0.00

Approved for Stationary Engineer & Electrical License

****MUST ATTEND ALL CLASSES FOR CREDIT**

LIMIT 10 STUDENTS



SUSTAINABLE BUILDING OPERATIONS

Augmented GPRO Operations & Maintenance Training

16 Contact Hours

8AM—NOON

Date: November 10, 17, & December 1, 8, 2025

Place: **IUOE LOCAL 95**

Instructor: GBA

Tuition:

Education Fund Members – \$0.00

Local 95 Members - \$760.00

Non-Members - \$1000.00

Active Retirees - \$0.00

Approved for Stationary Engineer License

****MUST ATTEND ALL CLASSES FOR CREDIT**



JOHNSON CONTROLS: FIRE ALARM 101

4 Contact Hours

8AM-NOON

Date: November 11, 2025

Place: **IUOE LOCAL 95 Hall**

Instructor: Judy Croll/JCI

Tuition:

Education Fund Members – \$0.00

Local 95 Members - \$190.00

Non-Members - \$250.00

Active Retirees—\$0.00

Approved for Stationary Engineer License



TESTING, ADJUSTING AND BALANCING FOR MEDICAL FACILITIES

4 Contact Hours

8AM-NOON

Date: November 14, 2025

Place: **IUOE LOCAL 95 Hall**

Instructor: SCOTT FIELDER

Tuition:

Education Fund Members – \$0.00

Local 95 Members - \$190.00

Non-Members - \$250.00

Active Retirees - \$0.00

Approved for Stationary Engineer & HVAC License

**EVERGREEN
TELEMETRY**

NOVEMBER 2025

CLEVELAND PUMP REPAIRS

4 Contact Hours

8AM-NOON

Date: November 18, 2025

Place: IUOE LOCAL 95 Hall

Instructor: Bob Lindsey/ CPR

Tuition:

Education Fund Members – \$0.00

Local 95 Members - \$190.00

Non-Members - \$250.00

Active Retirees - \$0.00

Approved for Stationary Engineer License



PGH AIR PRESENTS: JOHNSON CONTROLS

OVERVIEW

4 Contact Hours

8AM-NOON

Date: November 20, 2025

Place: IUOE LOCAL 95 Hall

Instructor: Jason Konley/PGH Air

Tuition:

Education Fund Members – \$0.00

Local 95 Members - \$190.00

Non-Members - \$250.00

Active Retirees—\$0.00

Approved for Stationary Engineer License



Pittsburgh AIR Systems, Inc.

An Employee Owned Company

STI: FIRE STOP TRAINING

4 Contact Hours

4PM-8PM

Date: November 20, 2025

Place: IUOE LOCAL 95 Hall

Instructor: Jason Acerra/STI

Tuition:

Education Fund Members – \$0.00

Local 95 Members - \$190.00

Non-Members - \$250.00

Active Retirees—\$0.00

Approved for Stationary Engineer License



CHEMSEARCH: CHEMICAL SAFETY **& SUSTAINABLE PRACTICES-COURSE DESCRIPTION:**

Chemical Safety and Sustainable Practices

Plumbing

- Importance of Preventative maintenance
- Methods of treatments for main lines
- Danger of h₂s gas accumulation in dead zones/ejector pits
- Effective Ejector Pit treatments to insure no formation of h₂s gas
- Why drain flies accumulate, what they feed on, and safe practices to prevent/treat an infestation
- Ecoflow Presentation to show biological systems to sustainably treat grease traps and reduce fats, oils, and grease output
- Quiz Game

HVAC

- Importance of Preventative Maintenance
- Go over what cleaners are more effective for what systems
- Danger of microbiological growth in systems, effects such as legionella, and how/why to properly treat condensate pans
- Inefficiency of systems when not properly treated
- Soda/ice machines safe practices and dangers when not properly treated
- Which type of lubricants are proper for specific applications
- Safe practices for loading dock areas/grounds
- Quiz Game

Odor Control

- Impact odors can have on guests/tenants
- Dangers of flies and rodents that can be attracted to dirty areas
- Pet areas, Trash room and chute cleaning
- Ways to preventatively treat garbage compactors
- Methods to go above and beyond the bare minimum when it comes to odor control
- Quiz game

Water treatment

- The reasons we treat water; Prevention of rust, corrosion and microbiological growth within the systems and dangers they cause
- Do's and don'ts/best practices for specific systems; different chemical treatments/biocides are more effective for certain systems depending on age, elements, and type of metal
- Closed Loops systems functionality and methods of treatments for different types of loops
- Different types of Cooling Towers, how they function and different methods of treatments depending on system
- Quiz Game

15 minutes: Takeaways from class, Q&A/conclusion



POWER QUALITY AND HARMONICS

Summary

It is a property of three phase power systems that if each of the three hot conductors has a nearly equivalent load, that the neutral current will be nearly zero due to the fact that each phase current is "out of phase" with the other. In other words, the load currents "cancel out" in the neutral wire. In North America, sometimes the building wiring design takes advantage of the cancellation, and the neutral wire is sized smaller than the hot wires. Unfortunately, the harmonic currents created by NON-Linear loads cause the operation of this system to change.

The term harmonics commonly refers to a distortion of the normally smooth utility power. Harmonics are actually higher frequency voltages and currents and when added to the utility power, produce a distortion of the normal voltage or current waveform.

Harmonic frequencies are produced by the action of non-linear loads such as rectifiers, discharge lighting, or saturated electric machines, everything that we find in today's modern office building, high rise, hospital and college campus.

They are a frequent cause of power quality problems and can result in increased equipment and conductor heating. These harmonic currents create heat, this heat over a period of time, will raise the temperature of the neutral conductor. This rise in temperature can overheat the surrounding conductors and cause insulation failure, equipment failure, higher energy bills and consumption, misfiring in variable speed drives, and torque pulsations in HVAC systems, pumps, motors and generators.

Harmonics in power systems are generated by non-linear loads. Semiconductor devices like transistors, IGBTs, MOSFETS, diodes etc are all non-linear loads. Further examples of non-linear loads include common office equipment such as computers and printers, fluorescent and LED lighting, battery chargers and also variable-speed drives.

For Good Power Quality, the grounding system must be to code, this allows all equipment to have the same reference voltage. This helps the facility electronic equipments operation and helps prevent the flowing of objectionable currents on communication lines, seals and other connections.

POWER QUALITY AND HARMONICS

Course Outline – 16 hour seminar and hands on training

This 16 hour course covers the following topics as well as an extensive hands on testing and training.

Explanation of power quality

What quality power looks like

Problems with poor quality power

Steady state vs Transient types of disturbances

Power Frequency Disturbances

Power factor

Definition of power factor (PF)

Problems with low PF

Remedies

Voltage sags, under-voltage and outages

Definition of sags, under-voltages and outages

Causes of sags, under-voltages and outages

Typical remedies to protect against sags, under-voltage and outages

Voltage swells and over-voltage

Definition of swells and over-voltages

Sources of swells and over-voltages

Typical remedies to protect against swells and over-voltages

High Frequency Disturbances

Transient over-voltages

Definition of transients

Sources of transient over-voltages

Typical remedies to protect against transients

Electromagnetic Interference (EMI)

Definition of EMI and RFI

Sources of EMI

Typical remedies to protect against EMI

Harmonic distortion

Definition of harmonic distortion

Distorted waveforms & harmonic spectra

Sources of harmonics & effects of impedance

Harmonic resonance with capacitors

PWM Voltage Distortion

Effect of pulsed voltage on motors

Voltage reflection & voltage doubling

Typical methods to protect motors

Power Quality Measurements

Measurements, locations, instruments

PQ waveforms

Neutral overload

Proper grounding

NOVEMBER 2025

CLASS CANCELLATIONS CAN NOT BE TAKEN OVER THE PHONE OR EMAIL.

ALL CLASS CANCELLATIONS MUST BE DONE VIA THE WEBSITE

ALL CERTIFICATES AND CONFIRMATIONS ARE SENT TO THE E-MAIL THAT YOU REGISTERED WITH. IF YOU ARE NOT RECEIVING CORRESPONDENCE, BE MINDFUL THAT MOST EMPLOYER SYSTEMS BLOCK OR MOVE OUTSIDE EMAILS TO TRASH. PLEASE CONSIDER

CERTIFICATES CAN TAKE UP TO 3
BUSINESS DAYS TO RECEIVE!

IF YOU NEED A DUPLICATE CERTIFICATE ALL REQUESTS MUST BE DONE VIA THE LOCAL 95 WEBSITE. **CHECK YOUR SPAM/JUNK MAIL IF YOU CANNOT LOCATE IT.**

CITY LICENSE RENEWAL CLASS CREDITS CAN BE TAKEN **WITHIN 364** DAYS BE-

