

The following is a list of journeyman training classes being offered at the IBEW 743/NECA training center.

- **OSHA 30-HOUR CONSTRUCTION OUTREACH COURSE:** The purpose of this course is to promote workplace safety and health and to make workers more knowledgeable about workplace hazards and their rights. The OSHA Outreach Training Program provides training on the recognition, avoidance, abatement, and prevention of workplace hazards. Outreach classes also provide overview information regarding OSHA, including workers' rights, employer responsibilities, and how to file a complaint. The 30-hour training program is intended to provide workers with some safety responsibility a greater depth and variety of training.
- **OSHA 10-HOUR CONSTRUCTION OUTREACH COURSE:** The purpose of this course is to promote workplace safety and health and to make workers more knowledgeable about workplace hazards and their rights. The OSHA Outreach Training Program provides training on the recognition, avoidance, abatement, and prevention of workplace hazards. Outreach classes also provide overview information regarding OSHA, including workers' rights, employer responsibilities, and how to file a complaint. The 10-hour training program is primarily intended for entry level workers.
- **ELECTRICAL SAFETY RELATED WORK PRACTICES BASED ON NFPA 70E:** This course is intended to help the student better understand electrical safety culture, electrical hazards, lockout and tagout, fault current calculation basics, and the definition of an electrically safe work condition. The course also is intended to help the learner better understand when energized work is justified and the requirements for the selection and use of personal and other protective equipment.
- **BUILT-RITE PROCESS SAFETY MANAGEMENT TRAINING COURSE:** This course is designed to help individuals comply with OSHA and Delaware Valley Petro Chemical industry standards. The instructor uses materials such as power points, videos and the PSM safety booklet provided by the Philadelphia Area Labor Management Committee (PALM), through out the course. The students must pass a 50-question test with an 80 percent grade or better to receive their completion card.
- **MSHA NEW MINER AND ANNUAL REFRESHER SAFETY TRAINING COURSE:** This Mine Safety and Health Administration approved training course is designed to train surface miners about the workplace hazards and their rights while working at a MSHA covered work site. The New Miner course consists of 24 hours of training as prescribed by our approved MSHA Training Plan. The Refresher course consists of eight hours of safety and health training.
- **ADULT BASIC LIFE SUPPORT FOR ELECTRICIANS:** The Basic Life Support for Electricians course is a four-hour class that combines video presentations, booklet study and actual hands on exercises. In this course we teach the prevention and initial care of cardiac

emergencies. This includes hands on training on the techniques of Cardiopulmonary Resuscitation, Automated External Defibrillation, and Foreign Body Airway Obstruction.

- **BASIC FIRST AID FOR ELECTRICIANS:** The Basic First Aid for Electricians course is a four-hour class that combines video presentations, booklet study and actual hands on exercises. The goal of each class is to enable each student to react quickly, confidently and skillfully in a situation where someone is in need of immediate medical assistance. The objective of this course is to have every student competent in the basic first aid skills after four hours of instruction and hands-on practice.
- **DATA/TELECOM – INSTALLING AND CONNECTORIZING LAN CABLING SYSTEMS:** This Structured Cabling course introduces the student to premises cabling, the related safety codes, and the TIA/EIA standards and codes. The majority of the course is time spent performing hands-on-labs simulating real-life job installations. Students learn proper installation, termination and testing of copper cabling systems.
- **FIBER OPTICS 1:** This primarily hands-on-lab course introduces the student to the Fiber Optic side of Data/Telecom systems. Completion of the course will give the student a knowledge of optical fiber, connecting hardware, testing and fiber optic network design.
- **MOTOR CONTROL 1:** Motor Control, Level I explains manually, mechanically, and automatically operated control devices. Both NEMA and IEC contactors and magnetic motor starters are addressed and used in the various hands-on-labs. The Students develop and use schematic and ladder diagrams to wire various motor control circuits.
- **MOTOR CONTROL 2:** Motor Control, Level II, explains solid state input and output devices. The function and operation of AC motor speed control devices are explained. Advanced topics such as variable speed drives, programmable logic controllers, and networks are presented.
- **FIRE ALARM SYSTEMS:** This hands-on-lab course introduces the student to the components of a complete fire alarm system for a small commercial building. The lab consists of following the job specifications and prints to install initiating devices, notification appliances, monitoring modules and addressable relays. They will also perform control panel programming and startup procedures.
- **HVAC CONTROL:** The objective of this course is to teach the student about the installation and wiring of heating and air conditioning control devices. The student learns what the different control devices look like and how they are installed and wired into the different HVAC systems. They learn how to read the HVAC control blueprints and specifications for particular jobs. The course concludes with the students mounting and wiring actual control devices on a working air handling unit.
- **MEDIUM/HIGH VOLTAGE SPLICING AND TERMINATION CLASS:** This course, taught by industry professionals, teaches the proper cable preparation, splicing and termination of medium and high voltage power cables. The student learns the theory behind proper power cable preparation and installs a termination and a splice on medium voltage cable.

- **SOLAR PHOTOVOLTAICS:** This in-depth course teaches the fundamentals and installation of different photovoltaic systems. The course content includes system advantages and disadvantages, site evaluation, component operation, system design and sizing, and installation requirements and recommended practices.
- **RIGGING, HOISTING, AND SIGNALING PRACTICES:** This course introduces the physical principles, safety considerations, and common practices involved in hoisting loads. This process involves planning a lift, evaluating and preparing a load, choosing appropriate rigging equipment, rigging a load, communicating hoisting instructions, and conducting a lift safely.
- **NATIONAL ELECTRICAL CODE/EXAM PREP CLASS:** This course provides instruction on solving electrical calculations and practice on National Electrical Code questions similar to those found on most licensing exams.
- **NATIONAL ELECTRICAL CODE UPDATE COURSE:** This course covers the important changes to the newest addition of the National Electrical Code.