THE JOINT APPRENTICESHIP AND TRAINING COMMITTEE
of
THE WICHITA ELECTRICAL TRAINING CENTER

July 10, 2006

These are the course outline of the courses the Wichita Electrical JATC in conjunction with The International Brotherhood of Electrical Workers and the National Electrical Contracting Association will be presenting and offering for the Apprentice classes and Journeyman upgrade and CEU classes.

Electrical Apprenticeship I (JATC) Course# APE111
National Electrical course for Apprentice Inside Wiremen, course description can be found in the syllabus for 1st yr apprentices. In addition to the 180 hour course, 1st yr Apprentices will be required to take OSHA 10 and First AID/CPR/AED training.

Electrical Apprenticeship II (JATC) Course# APE112
National Electrical course for Apprentice Inside Wiremen, course description can be found in the syllabus for 2nd yr apprentices. In addition to the 180 hour course, 2nd yr Apprentices will be required to take CPR/AED review.

Electrical Apprenticeship III (JATC) Course# APE113
National Electrical course for Apprentice Inside Wiremen, course description can be found in the syllabus for 3rd yr apprentices. In addition to the 180 hour course, 3rd yr Apprentices will be required to take First Aid/CPR/AED review.

Electrical Apprenticeship IV (JATC) Course# APE114
National Electrical course for Apprentice Inside Wiremen, course description can be found in the syllabus for 4th yr apprentices. In addition to the 180 hour course, 4th yr Apprentices will be required to take CPR/AED review.

Electrical Apprenticeship V (JATC) Course#APE115
National Electrical course for Apprentice Inside Wiremen, course description can be found in the syllabus for 5th yr apprentices. In addition to the 180 hour course, 5th yr Apprentices will be required to take First Aid/CPR/AED review.

Fire Alarm systems Course# APE138
This National course provides training on installation of Fire alarm systems. This 12-hour course will prepare an individual for the various levels of NICET certification testing. Individuals taking this course will also become familiar with proper installation methods for the various components of a fire alarm system.

Electrical Exam Prep Course using Codeology Course#APE039
National Electrical Code Questions, Answers, updates and calculations necessary for preparation to taking Electrical license exam. This 15-hour course covers requirements of the National code as well as local codes in title 19.

Basic Motor Controls for Journeymen Course#APE040
This 12-hour course will cover the fundamentals of motor control and ladder logic. This course will cover the NEC requirements for proper overload protection and disconnecting means for motors.

Intro to Instrumentation Course#APE042
This 12-hour course is a prerequisite to the Instrumentation course and includes orientation to testing equipment, pressure transmitter calibration and the importance of proper calibration. This course will also cover safety issues involved with instrumentation and other related issues.

Transformer Course Course#APE043
This 12-hour course will teach proper connection of single phase and three phase transformers using schematics and installation specifications. The course will include buck- boost applications as well as physical hook up of various types of transformer

PLC Controllers Course#APE044
This 15-hour course will be taught using Allen-Bradley and Siemons controllers.
Course will include computer training on building logic circuits and downloading of logic to the controllers as well as final connection of inputs and outputs to various components. Basic motor control is a prerequisite of this course.

Instrumentation Course Course#APE047
This 30-hour course includes calibration, accuracy and precision in calibrating of various components. This course

will help prepare an individual for certification to a level 1 instrumentation tech.

OSHA 10 Course#APE048
This 10-hour class will cover the Code of Federal Regulations for job site safety and proper handling of materials. Students will cover a variety of safety related topics from electrical safety to trenching and excavation as well as many other construction related requirements.

First Aid/CPR/AED Course#APE049
This course is the American Red Cross course; our instructors will follow the guidelines as set forth by the Red Cross. This course will take 8 hours to complete.

Power Quality and Meter Safety Course#APE051
This 6-hour course introduces journeyman to problems associated to harmonics, caused by non-linear loads and how to use power quality meters to isolate and correct power quality issues. This course also covers safety requirements for meters used on distribution equipment. (CAT ratings)

OSHA 30 Course#APE052
This 30-hour course covers the topics in the 10-hour course with additions of the following
Topics**:** Vehicular Safety on the job, rigging and sling safety, scaffold safety, general lift safety, compressed gas cylinder safety, working on live parts, lockout and tag out safety and personnel fall arrest systems**.**

Significant Changes to the 2005 NEC Course#APE053
This is a 12-hour course that is based upon the major changes incorporated in the 2005 National Electrical. Course will include local requirements of Title 19 of the city of Wichita and changes to Title 19 adopted in 2006.

Allen Bradley Frequency Drives Course#NA
This 9-hour course provides training on the fundamentals of frequency drives, including: Drive fundamentals and how they operate, proper installation, programming, start up procedures, and troubleshooting. This course will also cover NEC requirements for proper protection of motors.

Improving Customer, Contractor and Employee Relations Course#NA
This 6 course provides training to Journeymen and Foreman that will help improve job site conditions. There are variety of topics that will be covered from safe working conditions
to proper management of tools and material and customer relations. This course can be summed up as the (Code of Excellence) for electricians.

NFPA 70E Course#NA
This 12-hour course provides training on the proper personal protective equipment when working on energized equipment. The course includes: Instruction on calculating fault current values and arc flash protection required, which will be needed to select proper protective equipment and instruction on the dangers associated with working on energized equipment.