



Management & Continuing Education Guide

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Part 2

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101 Basics

PRODUCT-SPECIFIC / TECHNICAL & SAFETY

A series of web-based courses, each program module provides quality self-paced interactive training. Categories include: load centers, meter centers, panel boards & switchboards, busways, power metering, motor basics, pushbutton & stack lights, relays, timers, terminal blocks, starter basics, fundamentals of electricity, adjustable frequency drives, reduced voltage starters, motor control centers, limit switches & sensors, programmable logic controllers, electronic operator interfaces, medium voltage assemblies, surge & power conditioning, automatic transfer switches, electrical distribution, transformers, circuit breakers, and safety switches.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer and an Internet connection

Cost: \$0

Contact: Jim Golly, Eaton-Cutler Hammer (IEC National Platinum Industry Partner); Phone 916-780-4106; Fax 916-780-4141;

jameslgolly@eaton.com

AC Motor Theory

PRODUCT-SPECIFIC / TECHNICAL SAFETY

This is a web-based training course and after completing this course, you will be able to identify the major components of an AC motor, describe motor functionality and the different design characteristics of NEMA motors. Instructions on how to load the program can be found in the workbook.

Online Presentation: 3 hours Self-paced courses should be taken in order listed within each skill grouping that outlined in the curriculum map.

Equipment Required: computer with internet connection

Cost: \$19.95

Contact: www.us.schneider-electric.com/contractor-training

ASAP Lighting Control Designer

PRODUCT-SPECIFIC

This program was created to assist lighting control system designers in laying out and specifying systems.

The program automatically creates all of the documentation required to assist with the illustration and specification of the system. It is also used by

Leviton sales professionals to assist in the design, specification, and order entry process. This course covers many aspects of the ASAP application using a tutorial approach.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Basic Audio

PRODUCT-SPECIFIC / TECHNICAL & SAFETY

Part of Leviton's EZ-Learn web-based training system. Each program module provides quality self-paced interactive training. Each program concludes with a test and a completion certificate.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

BidTrac

OPERATIONS / PROJECT MANAGEMENT

This seminar will provide an overview of the initial setup fields and demonstrate the process needed to track one bid or several bids concurrently in BidTrac. BidTrac is a bid and bid document management system primarily used in conjunction with IntelliBid to bring more efficiency to the estimating department.

Online Presentation: one hour

Target Audience: owners, foremen, estimators, project managers

Audience Requirement: none

Prerequisite: A working knowledge of the Electrical industry

Equipment Required: Web Browser & Internet Access

Cost: \$35.00 per person

Contact: ConEst Software Systems (IEC National Bronze Industry Partner); Phone 800-662-7687, Fax 603-437-9354, training@conest.com

Captain Code: Changes to the 2008 NEC Code

TECHNICAL & SAFETY

The National Electrical Code (NEC) is written for persons who understand electrical terms, theory, safety procedures and electrical trade practices. These individuals include electricians, electrical contractors, electrical inspectors, electrical engineers and designers and other qualified persons. The Code is not written to serve as an instructive or teaching manual for untrained individuals.

This training course is to be used with the NEC, not as a replacement for the Code book, so be sure to have a copy of the 2008 National Electrical Code to ensure compliance.

This course is intended to explain the primary requirements of the NEC as they relate to Wiring Devices and Communications Systems. Also contained is a limited discussion of Over-Current Protection Devices, Raceways, Wires, Luminaries and other requirements that relate to the 2008 NEC. We hope you find this Illustrated Guide to the 2008 NEC Code Changes training course helpful.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Category Rated Connectors

PRODUCT SPECIFIC

This training course focuses on Category 5e, Category 6, and Category 6A connectors, specifically as they relate to unshielded twisted pair (UTP) cable. You will learn the products, the technology, and how to choose the right connector for your application.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Change Orders – How to Track Them

OPERATIONS/PROJECT MANAGEMENT/PRODUCT SPECIFIC

Change orders are a serious business in and of themselves. Poor business practices can possibly break your business. You know how to estimate the change orders, but how can you track them, ie., for submittal, for approval, for completion and most importantly for payment. This session will spend time showing processes that can be adapted to track all change orders from one job or for your entire company.

Online Presentation: 1 hour via the Internet

Target Audience: Owners, foreman, estimators, project managers

Audience Requirements: none

Prerequisite: A working knowledge of the Electrical trade

Equipment Required: Web Browser and Telephone

Cost: \$0

Contact: Loriel McCormick, McCormick Systems, Inc. Phone: 800-444-4890 or

lmccormick@mccormicksys.com

Combination AFCI Circuit Breakers (CAFI)

PRODUCT-SPECIFIC

In 2005, the NEC introduced the requirement for combination arc fault circuit interrupters to protect bedroom circuits. The 2008 NEC has expanded the protection beyond the bedroom to most of the living areas in a home. Combination arc fault circuit interrupters can prevent fires and save lives. Even when not required by code, a combination AFCI should be an essential upgrade for every residential installation or renovation. Combination arc fault circuit interrupters provide protection to the electrical system not presently provided by circuit breakers, fuses, or even GFCI.

Online Presentation: 10minutes

Cost: No charge for a limited time

Contact: www.us.schneider-electric.com/contractor-training

Commercial & Industrial Plugs & Connectors

PRODUCT-SPECIFIC / TECHNICAL & SAFETY

Part of Leviton's EZ-Learn web-based training system. Each program module provides quality self-paced interactive training. Each program concludes with a test and a completion certificate.

Online Presentation: timing varies by learner
Target Audience: electricians, apprentices, foremen
Audience Requirement: NA
Equipment Required: personal computer with Flash capabilities and an Internet connection
Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Confined Spaces for General Industry

TECHNICAL & SAFETY

Even though workers perform many routine tasks in confined spaces, little attention is given to how much of a hazard confined spaces pose to those who work in them. Workers in confined spaces may get injured or even killed due to materials or conditions that may trap, suffocate, or otherwise engulf the confined space entrant.

Online Presentation: 45 minutes

Prerequisite: none

Cost: \$19.95

Contact: www.us.scheider-electric/contractor-training

Dry Type Transformers

PRODUCT-SPECIFIC

This training program will introduce you to the Schneider Electric / Square D dry type transformer product line, and will provide instruction and practice in transformer selection. Completing this course will give you a basic understanding of dry type transformers and the selection criteria for matching the right transformer with application requirements. You'll also learn how to use the Transformers section of the Digest to locate required ordering information for transformers and related accessories.

Online Presentation: two hours

Cost: No charge for a limited time

Contact: www.us.schneider-electric.com/contractor-training

Electrical Distribution Equipment

PRODUCT-SPECIFIC

This web-based training course is designed to give a beginning level of knowledge of electrical distribution equipment. After completing this course, participants will be able to:

Identify the common NEMA type enclosure ratings
Know where and how distribution equipment is used
Identify safety issues pertaining to the use of distribution equipment.

Online Presentation: two hours

Prerequisite: Self-paced courses should be taken in the order listed within each skill grouping that are outlined in the curriculum map.

Contact: www.us.schneider-electric.com/contractor-training.

Electrical Hazards & NFPA 70E

TECHNICAL & SAFETY

Every year, between 300 and 500 people are fatally electrocuted in U.S. workplaces. Many of those people, including office workers and operators, work only indirectly with electricity. Electricity, as a raw source of power, presents as many hazards as it does benefits. To handle electricity safely, you need to know how it acts, how you can control it and how you can manage its hazards. OSHA relies on consensus standards, most notably the National Fire Protection Association's (NFPA) 70E standard, to effectively protect workers from the hazards of electricity. This course will describe the basic premise of the NFPA 70E regulations and how they affect your workplace safety procedures.

Online Presentation :One hour

Target Audience: electricians, foremen, apprentices

Cost: \$19.95

Contact: www.us.schneider-electric.com/contractor-training, click on General Study courses, then click on Electrical Safety

Energy Efficiency Solutions

TECHICAL & SAFETY

Continuing high energy prices impact just about every company's bottom line and every homeowner's checkbook. Improving energy efficiency is the cleanest, quickest, and most economical way for commercial, industrial and residential customers to reduce energy consumption. With a full range of energy management solutions from Schneider Electric, you can become an expert energy solution provider and tap into the revenue opportunities of this large expanding market.

Online Presentation: 45 minutes

Prerequisite: None

Cost: No charge for al limited time

Contact: www.us.schneider-electric.com/contractor-training

Essentials of Lighting Controls

PRODUCT-SPECIFIC / TECHNICAL & SAFETY

Part of Leviton's EZ-Learn web-based training system. Each program module provides quality self-paced interactive training. Each program concludes with a test and a completion certificate.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Estimating Digital Drawings – CAD

Estimating

OPERATIONS/PROJECT MANAGEMENT/PRODUCT SPECIFIC

This seminar is a course using AutoCAD files and CAD Estimating to scan the drawing and quantify your material and lengths to prepare for the proposal. Using symbol recognition to link symbols in the drawing to the item or assembly in the McCormick Estimating Program, this program can save you well over 75% of your takeoff time.

Online Presentation: 1 hour via the Internet

Target Audience: Owners, foreman, estimators, project managers

Audience Requirements: none

Prerequisite: A working knowledge of the Electrical trade

Equipment Required: Web Browser and Telephone

Cost: \$0

Contact: Loriel McCormick, McCormick Systems, Inc. Phone: 800-444-4890 or lmccormick@mccormicksys.com

Estimating Digital Drawings – On Screen Takeoff

OPERATIONS/PROJECT MANAGEMENT/PRODUCT SPECIFIC

This seminar is a course in taking off on screen and getting away from paper drawings. On Screen Estimating covers numerous file types, i.e., pdf, tiff, jpg, dwg, dxf, cpc, and many others. This session will include everything from importing the file all the way through to creating a proposal. See how fast, easy and accurate it is.

Online Presentation: 1 hour via the Internet

Target Audience: Owners, foreman, estimators, project managers

Audience Requirements: none

Prerequisite: A working knowledge of the Electrical trade

Equipment Required: Web Browser and Telephone

Cost: \$0

Contact: Loriel McCormick, McCormick Systems, Inc. Phone: 800-444-4890 or lmccormick@mccormicksys.com

Fall Protection

TECHNICAL & SAFETY

This course gives you a basic understanding about OSHA's role in prevention and elimination of work-related illnesses and injuries. The OSHA standard identifies areas or activities where fall protection is needed. It clarifies what an employer must do to provide fall protection for employees, such as identifying and evaluating fall hazards and providing training. Under the standard, employers are able to select fall protection measures compatible with the type of work being performed.

Online Presentation: one hour

Prerequisite: none

Cost: \$19.95

Contact: www.us.schneider-electric.com/contractor-training

Fundamental Electrical Estimating – Home Study

OPERATIONS / PROJECT MANAGEMENT

This program provides new and seasoned estimators with tools to generate accurate estimates with an eye toward submitting the lowest bids on projects while realizing the highest profits. A case study, based on a hypothetical restaurant installation, is used to illustrate the concepts and procedures.

Online Presentation: an eight-week course completed via the Internet; six course assignments are submitted via email

Target Audience: owners, project managers, estimators, foremen

Audience Requirement: 20 students maximum

Equipment Required: computer with an Internet connection, MS Word and Excel, scanner and copier

Cost: Call for details.

Contact: Jim Duff, JDE & Associates (IEC Rocky Mountain Associate Member; recommended by Renee McDonough, IEC Utah); Phone 970-231-5423; Fax 970-226-1785; jim@jdassociates.net

Fundamentals of Electricity

TECHNICAL & SAFETY

This eLearning course is designed to introduce you to basic electrical concepts and terms in an easy-to-understand format.

Online Presentation: 2 hours Self-paced courses should be taken in order listed within each skill grouping that are

outline in the curriculum map.

Equipment Required: computer with an internet connection

Cost: \$19.95

Contact: www.us.schneider-electric.com/contractor-training

under online courses, select Fundamentals courses

Fundamentals of an Estimating System for a Small Contractor

OPERATIONS/PROJECT MANAGEMENT/PRODUCT SPECIFIC

Today's push to automate all aspects of the construction industry touches every contractor, large or small. Estimating programs help you to automate and simplify the estimating process. Learn the basic features in a start up estimating program that can save you and your company up to 75% of your time.

Online Presentation: 2 hours via the Internet
Target Audience: Owners, estimators, project managers

Audience Requirements: none

Prerequisite: A working knowledge of the Electrical trade

Equipment Required: Web Browser and Telephone

Cost: \$0

Contact: Lorie McCormick, McCormick Systems, Inc. Phone: 800-444-4890 or lmccormick@mccormicksys.com

Fundamentals of an Estimating System for Mid sized Contractor

OPERATIONS/PROJECT MANAGEMENT/PRODUCT SPECIFIC

Using an estimating program can help your company automate and simplify the estimating process. For an estimator, accuracy and speed mean success. For an owner, speed, accuracy and a happy estimator means profits. With 5 basic steps, an estimating program can not only help you estimate the job, but manage the jobs once you have been awarded the job. This session will focus on all aspects of time savings and ease of use for mid-sized contractors.

Online Presentation: 2 hours via the Internet
Category: Operations, Project Management, Product Specific

Target Audience: Owners, estimators, project managers

Audience Requirements: none

Prerequisite: A working knowledge of the Electrical trade

Equipment Required: Web Browser and Telephone

Cost: \$0

Contact: Lorie McCormick, McCormick Systems, Inc. Phone: 800-444-4890 or lmccormick@mccormicksys.com

Fundamentals of an Estimating System for a Large Contractor

OPERATIONS/PROJECT MANAGEMENT/PRODUCT SPECIFIC

Whether you are a large centrally located contractor, or a nationwide powerhouse with multiple offices in different regions, you need a fast, accurate and dependable estimating program. Your company may even have the need for multiple estimators working on the same job, at the same time. This is possible with a McCormick Estimating program. Spend some time in this session to see the benefits that a true multi-user estimating program has to offer to your company.

Online Presentation: 2 hours via the Internet
Target Audience: Owners, estimators, project managers

Audience Requirements: none

Prerequisite: A working knowledge of the Electrical trade

Equipment Required: Web Browser and Telephone

Cost: \$0

Contact: Lorie McCormick, McCormick Systems, Inc. Phone: 800-444-4890 or lmccormick@mccormicksys.com

Fundamentals of Occupancy Sensors

PRODUCT SPECIFIC

This course provides a fundamental background on commercial occupancy sensors and covers the following topics:

- Choosing an Occupancy Sensor Technologies
 - Minor and Major Motion
 - Field-of-View
 - Mounting Options
 - Mounting Height
 - Line-of-Sight
 - Dollars and Sensors (a software tool)
- Occupancy Sensor Specifications (a reference "manual")
- Occupancy Sensor Applications
- Occupancy Sensor Operation
- Occupancy Sensor Adjustments

Note that this training program requires audio. The audio portion is 69 minutes in length; however, with the additional reference information, you should plan on spending roughly 90 minutes to complete the course.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Fundamentals of Wiring Devices

PRODUCT-SPECIFIC / TECHNICAL & SAFETY

Part of Leviton's EZ-Learn web-based training system. Each program module provides quality self-paced interactive training. Each program concludes with a test and a completion certificate.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

GE Learning Central

PROFESSIONAL & STANDARD SKILL DEVELOPMENT

GE Learning Central is a one-stop shop for professional and technical skill development. Once you have created your Learning Central account, you will have access to the site's three departments.

Lighting & Electrical Institute - register for classroom instruction at the Lighting & Electrical Institute in Cleveland, Ohio, view course descriptions, download online course resources, and request necessary accommodations for during the training, when available.

Continuing Education Program (CEP) - includes a wide variety of courses, and gives you an opportunity to earn CEUs and LEUs. These courses are set up by request. In Learning Central, you can view the course descriptions, initiate requests for the courses, and track your Personal Development Hours earned from them.

eLearning - a wide variety of free eLearning courses that you can take online, including Circuit Breaker Basics, Value Selling, and Switchboard Basics. More courses are planned for 2009, including LED101.

http://www.gelighting.com/na/business_lighting/education_resources/conferences/?omni_key=iectraining

Ground Fault Circuit Interrupters (GFCI)

PRODUCT-SPECIFIC / TECHNICAL & SAFETY

Part of Leviton's EZ-Learn web-based training system. Each program module provides quality self-paced interactive training. Each program concludes with a test and a completion certificate.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Guide to Electrical Theory

TECHNICAL & SAFETY

Part of Leviton's EZ-Learn web-based training system. Each program module provides quality self-paced interactive training. Each program concludes with a test and a completion certificate.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Home Automation

Vizia RF + Part 1 – Overview (9 min.)

PRODUCT-SPECIFIC/TECHNICAL

Part 1 of this eight-part series provides an overall introduction to the Vizia RF+ line, including some of the features and benefits, as well as technical capabilities of an installed system. This part is meant to provide a general background of the product and an overview of the subjects that will be covered in subsequent parts of the series. Only basic technical knowledge is required. Note that audio is required for this training module.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Vizia RF + Part 2 - The Brilliance Inside (8 min.)

PRODUCT-SPECIFIC/TECHNICAL

Part 2 of this eight-part series on Vizia RF+ focuses on an overview of Vizia RF+ technology. This part begins with the characteristics of an RF (radio frequency) network and delves into the features of the Z-Wave™ technology that is embedded in each device of the Vizia RF+ line. This part also covers Leviton's professional level enhancements to the Z-Wave protocol. Basic technical knowledge is required for this module. Note that audio is required for this training module.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Vizia RF + Part 3 – Introduction to the Vizia Line (20 min.)

PRODUCT-SPECIFIC/TECHNICAL

Part 3 of this eight-part series on Vizia RF+ covers on an overview of the Vizia RF+ product line. You will learn about the entire line of Vizia RF+ products including switches, dimmers, plug-in modules, wall-mounted controllers, and handheld remote controllers. Basic technical knowledge is required for this module. Part 2 is a recommended prerequisite to understand terminology and concepts covered in this section. Note that audio is required for this training module.

Vizia RF + Part 4 – Opportunities (7 min.)

PRODUCT-SPECIFIC/TECHNICAL

Part 4 of this eight-part series on Vizia RF+ focuses on the opportunities available for Vizia RF+ installations, including the types of jobs the product is suited for, as well as some of the benefits of using a Vizia RF+ system offers to different users. Basic

technical knowledge is required for this module. Both Parts 2 and 3 are recommended prerequisites to understand terminology and concepts covered here.

Note that audio is required for this training module.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Vizia RF + Part 5 – Introduction to the VRCPG Remote Controller (8 min.)

PRODUCT-SPECIFIC/TECHNICAL

Part 5 of this eight-part series on Vizia RF+ focuses on the Vizia RF+ programmer remote controller. Basic technical knowledge is required for this course. Parts 2, 3, and 4 are recommended prerequisites to understand terminology and concepts covered in this module. Note that audio is required for this training module.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Vizia RF + Part 6 – Specifying Vizia RF + (9 min.)

PRODUCT-SPECIFIC/TECHNICAL

Part 6 of this eight-part series on Vizia RF+ focuses on some of the considerations to note when specifying a new Vizia RF+ system. Basic technical knowledge is required for this course. Parts 2, 3, 4, 5, and 6 are recommended prerequisites to understand terminology and concepts covered in this section. Note that audio is required for this training module.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Vizia RF + Part 7 --System Planning (5 min.)

PRODUCT-SPECIFIC/TECHNICAL

Part 7 of this eight-part series on Vizia-RF focuses on some of the considerations to note when specifying a new Vizia-RF system. There is also a section covering frequently asked questions. Basic technical knowledge is required for this course. Parts 2, 3, 4, 5, and 6 are recommended prerequisites to understand terminology and concepts covered in this section. After this module has been completed, please select the next "course" entitled "Vizia-RF: The Basics Test" to take the final Vizia-RF test. Note that audio is required for this training module.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen
Audience Requirement: NA

Vizia RF + Part 8 --System Start-up (31 min.)

PRODUCT-SPECIFIC/TECHNICAL

Part 8 of this eight-part series on Vizia RF+ focuses on the steps for installing and programming a Vizia RF+ system. The module proceeds in a step-by-step method through a small case study. Basic technical knowledge is required for this course. All previous parts of the Vizia RF+ training program are recommended as prerequisites to understand terminology and concepts covered in this section. This part specifically references Part 7 in particular. Note that audio is required for this training module. After this module has been completed, please select the next "course" entitled "Vizia RF+: The Basics Test" to take the final Vizia RF+ test. There is no audio for the test.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen
Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Vizia RF The Basics Test

PRODUCT-SPECIFIC/TECHNICAL

Upon successfully passing the 40 question test, you will have the option of printing a Certificate of Course Completion. This certificate is a prerequisite

for all contractors or others who plan to proceed with Vizia RF+ Installer Certification.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

IECU eCampus

INDUSTRY ISSUES / LEADERSHIP / OPERATIONS / PRODUCT-SPECIFIC / PROJECT MANAGEMENT / SERVICE / TECHNICAL & SAFETY

IEC University's eCampus provides IEC member companies with low-cost self-study programs via the IECU eCampus website. There are hundreds of courses, covering many topics, such as:

- Basic electrical theory
- Electrical controls & application
- Installation, distribution & lighting
- Wiring diagrams & troubleshooting
- Basic process control
- Mechanical print reading
- Electronic circuits: characteristics & operation
- Electrical product demonstrations & installation guides
- Conflict resolution in the workplace
- Sexual harassment awareness
- Customer service & telephone courtesy
- Teamwork
- Time management
- Construction safety
- Fall protection
- Lockout / tagout
- Personal protective equipment
- Business skills
- Sales & marketing techniques
- Computer hardware and software
- Personal finance & wealth building
- Database management
- Languages
- Graphic design
- Writing & publishing
- Art, history, psychology, literature

Students receive certificates of completion after passing each final exam when an exam is required. Managers can track the progress of their employees. Some courses are offered in Spanish. Chapters can receive royalties based on revenue generated by their members.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen, managers, owners

Audience Requirement: NA

Equipment Required: personal computer and an Internet connection

Cost: some courses are free; others are \$12 to 99 per course – volume discounts available on some courses

Contact: Visit the IEC website, www.ieci.org, login as a member or chapter staff, click on Education & Training, then IEC University. There are actually three separate eCampuses, each focusing on different kinds of information, supported by Coastal Online Training, ed2go, and Electric Smarts (which works with a number of industry manufacturers to provide product information).

Introduction to Variable Frequency Drives

PRODUCT-SPECIFIC

After completing all of the lessons in this self study course, the student will be able to:

Understand the principles of AC variable frequency control

Understand the construction and characteristics of AC induction motors

Identify the differences between variable and constant torque applications

Understand the principle operation of Variable Frequency Drives for simple applications

Select motors and Variable Frequency Drives for simple applications.

Online Presentation: four hours

Targeted Audience: This course is designed for Engineering and Maintenance skill trades whoneed to maintain and integrate control systems programs using

Variable Frequesncy Drives (VFD's)

Prerequisite: Students should have a basic understanding of industrial controls as well as basic Microsoft Windows Operating System navigation skills.l

Cost: No charge for a limited time

Contact: www.us.schneider-electric.com/contractor-training

Laws of Electricity

TECHNICAL & SAFETY

This course builds on the Fundamentals of Electricity course (BASFOE61). Topics include: Variables and Units, Physical Laws, Ohm's Law, Coulomb's Law, Kirchhof's Law, and more, plus Basic Vocabulary.

Online Presentation: 30 minutes

Prerequisite: Fundamentals of Electricity (BASFOE61)

Cost: \$9.95

Contact: www.us.schneider-electric.com/contractor-training,

Under online courses, select Fundamentals courses.

Lockout/Tagout

SERVICE/PRODUCT-SPECIFIC

This course is designed to inform employees about the requirements for lockout/tagout during servicing and maintenance of machines or equipment. Also covered are the requirements of the OSHA Lockout/Tagout Standard, procedures for the application of locks and tags, and a discussion of the types of energy these procedures are designed to control.

Online Presentation: one hour

Prerequisite: none

Cost: \$19.95

Contact: www.us.schneider-electric.com/contractor-training,

Receptacles – Tamper- Resistant

PRODUCT-SPECIFIC / TECHNICAL & SAFETY

Leviton makes it easy for you to comply with the 2008 NEC mandate for tamper-resistant receptacles in all new residential housing. This requirement results from a Consumer Product Safety Commission study that documented injuries in the home caused each year by children attempting to insert foreign objects into receptacles.

As a long-time manufacturer of tamper-resistant devices, Leviton is pleased to be at the forefront of this safety measure with a wide range of tamper-resistant devices in both Residential and Commercial grades.

This course covers the following:

- A summary of the relevant changes found in the 2008 National Electric Code as it pertains to tamper-resistant receptacles
- A description of how tamper-resistance receptacles work
- A summary of Leviton's tamper-resistant receptacle product line
- Marketing support tools
- Frequently asked questions

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Residential Intercom System Part 1: Introduction (8 min.)

PRODUCT-SPECIFIC / TECHNICAL

Part I of this two-part program provides an overall introduction to Leviton's Residential Intercom System for structured wiring installations. This part will cover the components of the intercom system, along with their features and benefits. Only basic technical knowledge is required. Note that audio is required for this training module.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Residential Intercom System Part 11: Advanced (4 min.)

PRODUCT-SPECIFIC / TECHNICAL

Part II of this two-part program provides specific applications of Leviton's Residential Intercom System, before covering an overview of the installation procedure. Some advanced technical knowledge is recommended for understanding the wiring strategies in this part. Note that audio is required for this training module.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Residential Intercom System Part 111: Test

PRODUCT-SPECIFIC / TECHNICAL

Final Test -- Please click the "Take Course Now" link above and then please click the "Take Test Now"

button which will be located at the upper left of the screen to take the final Intercom test. Upon successfully passing the 15 question test you will have the option of printing a Certificate of Course Completion.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com

Residential Structured Wiring

TECHNICAL & SAFETY

Part of Leviton's EZ-Learn web-based training system. Each program module provides quality self-paced interactive training. Each program concludes with a test and a completion certificate.

Online Presentation: timing varies by learner

Target Audience: electricians, apprentices, foremen

Audience Requirement: NA

Equipment Required: personal computer with Flash capabilities and an Internet connection

Cost: \$0

Contact: Tom Degnan, Leviton Manufacturing (IEC National Bronze Industry Partner); Phone 718-281-6077; Fax 718-631-6508; tdegnan@leviton.com