

The *Electrical*
CONTACTOR

THE OFFICIAL PUBLICATION OF THE FLORIDA
ASSOCIATION OF ELECTRICAL CONTRATORS

Volume 5
Number 3

Fall 2009



INSIDE:

Grounding vs. Bonding
Part 12

Executive Vice
Presidents Report

Fall Symposium Photos

**FAEC State
Spring Conference
Hawks Cay Resort
April 2010**



"Lighting for a Greener Tomorrow"

sesco lighting

www.sescolighting.com

For All Your Lighting Needs
Contact Your Local SESCO Office

Fort Lauderdale
737 Shotgun Road
Ft. Lauderdale, Florida 33326
Tel: (954) 474-9888
Fax: (954) 474-9773

Fort Myers / Naples
1500 Colonial Boulevard
Suite 100
Ft. Myers, Florida 33907
Tel: (239) 274-3759
Fax: (239) 274-3769

Jacksonville
8110 Cypress Plaza Drive
Suite 301
Jacksonville, Florida 32256
Tel: (904) 646-4772
Fax: (904) 646-9517

Orlando
1133 West Morse Boulevard
Winter Park, Florida 32789
Tel: (407) 629-6100
Fax: (407) 629-6213

Tallahassee
930 Thomasville Road
Suite 206
Tallahassee, Florida 32303
Tel: (850) 422-3600
Fax: (850) 422-3622

Tampa
5021 West Laurel Street
Tampa, Florida 33607
Tel: (813) 289-1600
Fax: (813) 287-0899

The *Electrical* CONTACTOR

FAEC STATE BOARD OF DIRECTORS - 2009

2009 Officers

PRESIDENT

KEN CROSS
FERRAN SERVICES & CONTRACTING, INC.
530 Grand Street
Orlando, FL 32805
Phone: 407-422-3551
Fax: 407-648-0961
Email: kcross@ferran-services.com

VICE PRESIDENT

TIM QUIGLEY
TERRY'S ELECTRIC
600 N. Thacker Ave., Suite A
Kissimmee, FL 34741
Phone: 407-572-2100
Fax: 407-932-1135
Email: timquigley@terryselectric.com

SECRETARY

KIM DEBERRY
KIM'S ELECTRIC
PO Box 28792
Jacksonville, FL 32218-8792
Phone: 904-757-6633
Fax: 904-757-5375
Email: kim.kimselectric@comcast.net

TREASURER

MILES MacEACHERN
MILES ELECTRICAL CONTRACTING, INC.
4243 Loys Drive
Jacksonville, FL 32246
Phone: 904-813-4785
Fax: 904-642-1465
Email: mileselectricalcontractinginc@yahoo.com

PAST PRESIDENT

MIKE CAUTHEN
DMC INDUSTRIES, INC.
PO Box 473
Sparr, FL 32192
Phone: 352-620-9322
Fax: 352-622-3953
Email: driladillo@aol.com

CENTRAL FLORIDA

BLAKE FERGUSON, JR.
ROYAL ELECTRIC OF CENTRAL FLORIDA
645 Newburyport Ave., Ste 1000
Altamonte Springs, FL 32701
Phone: 407-834-2345
Fax: 407-834-1777
Email: bfergusonjr@royal-electric.com

ROCKY SNEED
TRI-CITY ELECTRICAL CONTRACTORS, INC.
430 West Drive
Altamonte Springs, FL 32714
Phone: 407-788-3500
Fax: 407-682-1096
Email: rocky.sneed@tcelectric.com

JACKSONVILLE

DAVID DEBERRY
DEBERRY ELECTRIC COMPANY, INC.
PO Box 26037
Jacksonville, FL 32226
Phone: 904-757-8424
Fax: 904-757-7811
Email: david@deberryelectric.com

JEFF SANDERS

COASTAL ELECTRIC OF FLORIDA
2759 St. Johns Bluff Road
Jacksonville, FL 32246
Phone: 904-645-0026
Fax: 904-645-6186
Email: jtsceco@bellsouth.net

OCALA

BILL MANNING
M & M ELECTRIC SERVICE
10876 SW 91st Avenue
Ocala, FL 34481
Phone: 352-854-8338
Fax: 352-854-4009
Email: mmelectricinc@yahoo.com

EAST COAST AREA

NEED REPRESENTATIVE

WEST COAST AREA

NEED REPRESENTATIVE

SOUTH FLORIDA

NEED REPRESENTATIVE

ASSOCIATE DIRECTORS

INSURANCE PARTNER

MARCUS "BO" ORR
FEDERATED INSURANCE
PO Box 467500
Atlanta, Ga 31146
Phone: 404-497-8840
Fax: 507-446-4731
Email: MRORR@fedins.com

EXECUTIVE VICE PRESIDENT

JANICE FICARROTTO
FAEC
PO Box 180458
Casselberry, FL 32718-0458
Phone: 407-260-1511
Fax: 407-260-5732
Email: janice@iag.net

INDEX

TABLE OF CONTENTS

Message from the Executive Vice President.....	4
FAEC State Fall Symposium Photos	5
Grounding vs. Bonding Part 12: Communications Systems	6
FAEC State Fall Symposium Photos	10

ADVERTISERS INDEX

FAEC Business Card Page	11
Ferran Services & Contracting	5
Federated Insurance	12
Hughes/HD Supply.....	Back Cover
Mike Holt	9
Rams	5
Richard Watson	5
Sesco Lighting.....	Inside Front Cover
Solar Source Institute	10
Southern Electrical Resources.....	Inside Back Cover
Surge Suppression	10

FAEC Magazine

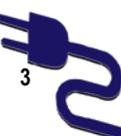
FLORIDA ASSOCIATION OF
ELECTRICAL CONTRACTORS
PO BOX 180458, CASSELBERRY, FL 32718-0458
407-260-1511 ~ FAX 407-260-5732
Email: faec@iag.net



Published four times a year by the
Florida Association of Electrical Contractors
PO Box 180458 ~ Casselberry, FL 32718-0458
407-26-1511
Email: faec@iag.net
www.faecstate.org

Copyright 2009 by FAEC. No reproduction without permission.

For Advertising Information
Cheryl Hardy
FAEC - 407-260-1511
Email: faec@iag.net



EXECUTIVE VICE PRESIDENT'S REPORT

As we rapidly approach the close of 2009, it is not without wonder as to where the year went. And what a year it was! Business is still slow and the unemployment numbers continue to rise at an alarming rate. I know, from speaking to many of you over the past month's that layoffs have been heavy, work very slow and new government regulations are making it more and more difficult to generate a profit.

We are currently preparing FAEC for the 2010 membership year and do have some new and exciting things to share with you. First, FAEC is in the process of establishing a new Educational Foundation; a separate 501-C-3 organization whose sole purpose will be promoting our electrical contracting industry to new recruits from various areas of the market place. Our industry has a great deal to offer new, energetic individuals who are willing to work and make a commitment to a great career. In promoting this, we will be utilizing our established career path and developing promotional material and programs to present to high schools and vocational/technical colleges around the State. One of the things that have me so excited about this new Foundation is the outstanding Officer's who have chosen to champion this cause. We are still in need of another 3-5 Trustees for this first year term and I will be following up with many of you to secure commitments.

We have plans in place for almost all of our programming for 2010. A Spring Conference planned at the beautiful Hawk's Cay Resort on Duck Key in the Florida Keys and a Fall Conference at the Renaissance Resort at World of Golf Village in historic St. Augustine, FL. We will be holding a golf outing at the World of Golf on the famous King and Bear course. Watch upcoming issues of the magazine for further information.

Remember, licenses renew prior to September 1, 2010 so, the Spring conference will be a great place to earn some C.E. There's also some talk about a fishing tournament??? More to follow.

Committees, while greatly improved with new participation over the past year, still could use some help. We've been trying to get a professional development committee together who's sole purpose would be to generate material for our new Technical Bulletins which we hope to e-mail to all members after the first of the new year. If you have a technical interest, of any sort, we invite you to get involved. We need Code articles, management tool articles, and technical articles – of any sort. Please call the office if you have some material you wish to share. We could use your help!

In closing, as we do approach the year-end, I want to take this opportunity to wish you all a very happy holiday season and hope that the new year brings prosperity to us all.

Happy Holidays

- Janice Ficarrotto

FAEC BENEFITS OF MEMBERSHIP INCLUDE:

- A Voice in the Legislative Process through a lobbyist in Tallahassee.
- An Annual 'Spring Conference' & 'Fall Convention' offering Continuing Education classes relative to license renewal.
- The official publication of FAEC - The "Contractor" bringing you up-to-date on association information and industry news.
- A Group Major Medical Insurance Program.
- A General Liability Insurance Program.
- An Annual Membership Directory.
- "Legislative Alerts" distributed throughout the session to keep you abreast of industry concerns.
- The opportunity to interact with fellow contractors to share industry concerns and discuss industry news.

*Your Invitation
to Membership
In FAEC!*

Join With An Elite Group...

FAEC 1-DAY CE SYMPOSIUM *PHOTOS*



RICHARD WATSON
GOVERNMENT AFFAIRS CONSULTANT

108 E. Jefferson St., Suite G.
 Tallahassee, FL 32301
 Telephone - 850-222-0000
 Fax - 850-222-9059

Rick@rwatsonandassociates.com

KENNETH CROSS
 ELECTRICAL DIVISION MANAGER

www.ferran-services.com
kcross@ferran-services.com

FERRAN SERVICES & CONTRACTING

AIR CONDITIONING CAC 010842	ELECTRIC EC 0001804	PLUMBING CFC 050579
---------------------------------------	-------------------------------	-------------------------------

530 GRAND STREET ORLANDO, FL 32805-4795 (407) 422-3551 FAX # (407) 648-0961	4420 EASTPORT PARK WAY PORT ORANGE, FL 32127-6044 (386) 322-6168 FAX # (386) 322-2259
--	--



RAMS[®]

FAMILY OF COMPANIES



Alternate Workforce
Solutions

RPG ▲ PSG ▲ TEC

Properly Licensed in Florida
Qualified Professionals
Safety Trained
Drug-Free
Tooled
Deployable

Offices Throughout Florida!
Contact Us Today!

(800) 577-1808

www.RAMSinc.net

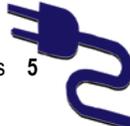


Is Your Firm Benefiting
From the Most Progressive
and Recognized Training
Program in Florida?

JumpStart

(P-065)

EC-13001300 CGC-1505350 CRC-043721



GROUNDING VERSUS BONDING

By Mike Holt, NEC Expert

Part 12 of 12:
Communications Systems

How do you make communications systems safe?

So, it's late Friday afternoon and you're looking forward to the weekend. After working hard all week, you are thinking about what you'll be doing in—you check your watch—one hour. Suddenly, the ringing of your cell phone jars you out of your thoughts.

After a brief conversation, you know you can forget about your weekend plans. Smoke pouring out of the server room is not a good sign. Worse, the news that Frank is on his way to the hospital after simply touching a communication cable has your stomach in knots.

This doesn't sound like a good situation, does it? Unfortunately, many facilities—office, home, and residential—contain NEC Chapter 8 violations that could result in exactly this scenario. Or worse.

NEC Chapter 8

Some years ago, Sprint changed their installation requirements to mandate bonding their ground rod to the main bonding jumper (Randy Schmisny, former Chair of the IEEE Kansas City Section, helped bring this change about). Sprint's previous stance was that their ground rod should be "separate from" the power ground rod—and this was costing them money.

Their new policy made their installations comply with Article 250 and Chapter 8. The impetus wasn't pressure to comply with the NEC but the need to prevent equipment failures and reduce service calls. Bonding their electrode to the rest of the system provided cost-savings through increased reliability, performance, and safety. Comply with NEC Chapter 8, and you can enjoy those same benefits.

NEC Chapter 8 contains the requirements for communications circuits (Article 800), Radio and Television Equipment (Article 810), Community Antenna Television (CATV) and Radio Distribution Systems (Article 820), and Network-Powered Broadband (Article 830).

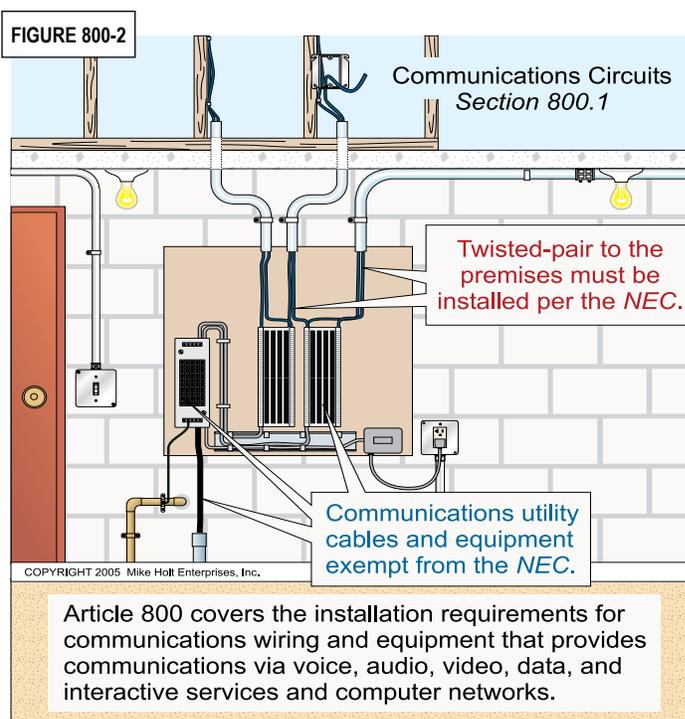
Articles 800, 820, and 830 are about the same size.

They have the same layout and other similarities. But Article 810 is less than half the size of these others and has its own structure. From a grounding and bonding standpoint, these Articles have the same goals—the primary one being to eliminate differences in potential. The grounding and bonding rules in these Articles often differ in the details. For example, you'll find differences in the minimum conductor size and whether you need an insulated grounding conductor.



Where we get twisted

The telco typically provides the twisted-pair cable to a terminal board at the structure. This terminal board is the Network Interface Device (NID). Article 800 addresses twisted-pair wiring from the NID to the premises (**Figure 800-2**). We find this kind of wiring in such central station systems as fire and burglar alarm, telephone, and telegraph.



A primary protector is a device that protects installers and occupants from electric shock. You need a listed primary protector for each incoming communications circuit [800.90(A)]. The point of entrance is where the cable enters the structure or grounded raceway. Install the primary protector as close as practicable to the point of entrance [800.90(B)]. This practice reduces differences in potential between communications circuits and other metallic systems and objects. Those differences create personnel hazards and can lead to catastrophic failures—especially when lightning is present.

If you're installing phone cable, ground the metallic sheath (or interrupt it by an insulating joint) as close as practicable to the point of entrance [800.100]. This rule applies to other types of cable covered by Articles 810, 820, and 830.

Four other rules apply universally, as well:

- Keep grounding wires as short as practicable, and run them in a straight line. Why does this matter? Lightning tends to not to travel through sharp bends, corners, and loops. Instead, it tends to jump across them or flash over to something nearby.
- As common sense suggests, you must protect the grounding conductor where it is subject to physical damage—and that typically means you run it in a raceway. If you use a metal raceway, bond each end of the raceway to the grounding conductor.
- Ground cables and metallic raceways as close as practicable to the entrance point.
- Use only grounding conductors, connectors, and fittings listed as suitable for the purpose.

Grounding conductor

Article 800 requirements for grounding the phone cable and the primary protector are nearly identical to those of the other Chapter 8 Articles. The grounding conductor [800.100(A)] must be:

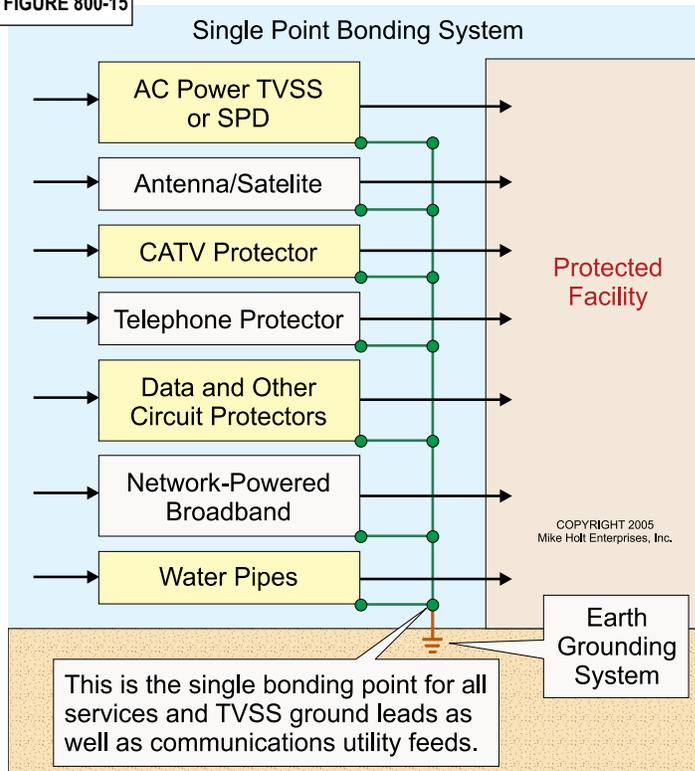
- Insulated and listed as suitable for the purpose (Article 810 does not require insulation).
- Copper or other corrosion-resistant conductive material (Article 810 has more stringent requirements).

- Not smaller than 14 AWG (this differs in the other Articles).
- As short as practicable. In 100(A), Articles 800, 820, and 830 contain a length limit of 20 ft for dwelling units. Article 810 does not contain a length limit.

Sometimes, it isn't practicable to limit the grounding conductor to 20 ft. Note the exception in 100(A)(4) of the appropriate Article. The details differ slightly, but essentially you can drive a separate ground rod that you must bond back to the grounding conductor.

Though the details differ among the Articles, the requirement to bond all external (entering a structure) systems (e.g., communications and power) to a single point remains. This practice minimizes the possibility of equipment damage—and electric shock—due to differences of potential between the systems (**Figure 800-15**). If you don't make this bond, your system will be at risk for flashover, ground loops, power quality problems, and circulating currents. This is why someone can die from shock by merely touching the shield of the network cable on the back of a printer—even though all systems are properly “grounded.” Maybe size doesn't matter, but bonding does.

FIGURE 800-15



Communications electrodes

If the structure has a grounding means, you have several grounding conductor termination options. Terminate to the nearest accessible point of the following locations:

- Grounding electrode system [250.50].
- Interior metal water piping system, within 5 ft from point of entrance [250.52(A)(1)].
- Service bonding means [250.94].
- Metallic service raceway.
- Service equipment enclosure, or
- Grounding electrode conductor (or GEC metal enclosure).

In the rare case that the structure lacks a grounding means, install a ground rod not less than 5 ft long and 1/2 in. in diameter [800.100(B)(2)(2), 830.100(B)(2)(2)]. For 810 and 820 installations, use a 10 ft rod per 250.52, or bond to the grounded structure. Bond this to the grounding electrode system with a minimum 6 AWG conductor.

Article 810

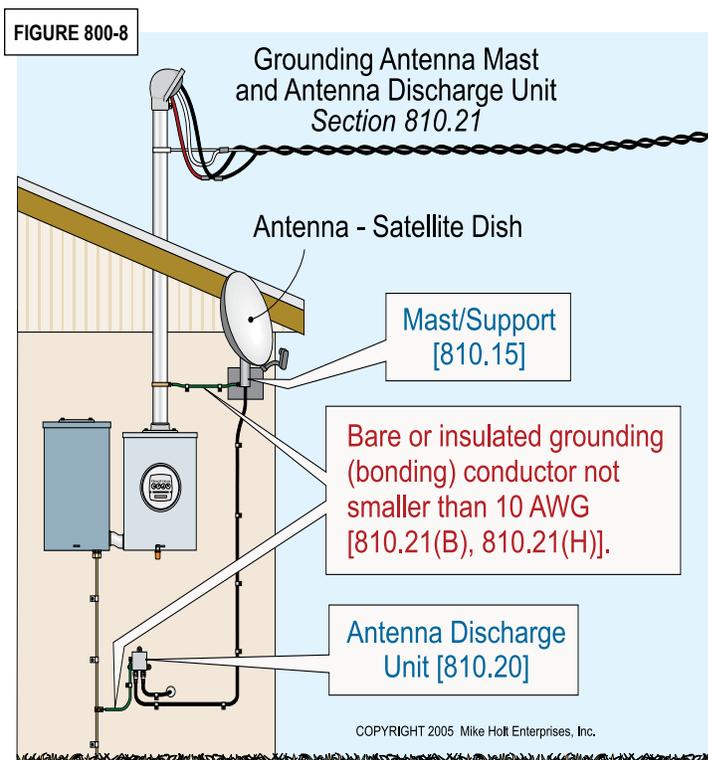
This article differs markedly from the other Chapter 8 Articles. But it still requires you to reduce differences in potential. The difference is in the details of how you do that.

For example, you must provide a listed antenna discharge unit for each lead-in conductor from an outdoor antenna [810.20]. It doesn't matter if you locate the discharge unit inside or outside, but you must locate it nearest the point of entrance—and away from combustible material. If the antenna is indoors (e.g., in an attic), you can skip the discharge unit.

Ground the antenna mast and discharge unit per 810.21 (A) through (K) (**Figure 810-8**). This grounding helps prevent voltage surges caused by static discharge or nearby lightning strikes from reaching the center conductor of the lead-in coaxial cable.

Satellite dishes provide additional challenges. Because the dish sits outdoors, wind creates a static charge on the antenna and attached cable. This charge can build up until it jumps across an air space—often passing through the electronics inside the low noise block down converter feed horn (LNBF) or receiver.

Manufacturers often mold copper-clad steel or bronze wire (17 AWG) into the jacket of the coaxial cable to eliminate the need for a separate ground wire—which simplifies grounding the satellite dish [810.21(F)(1)].



Avoiding confusion

To avoid Chapter 8 confusion, remember:

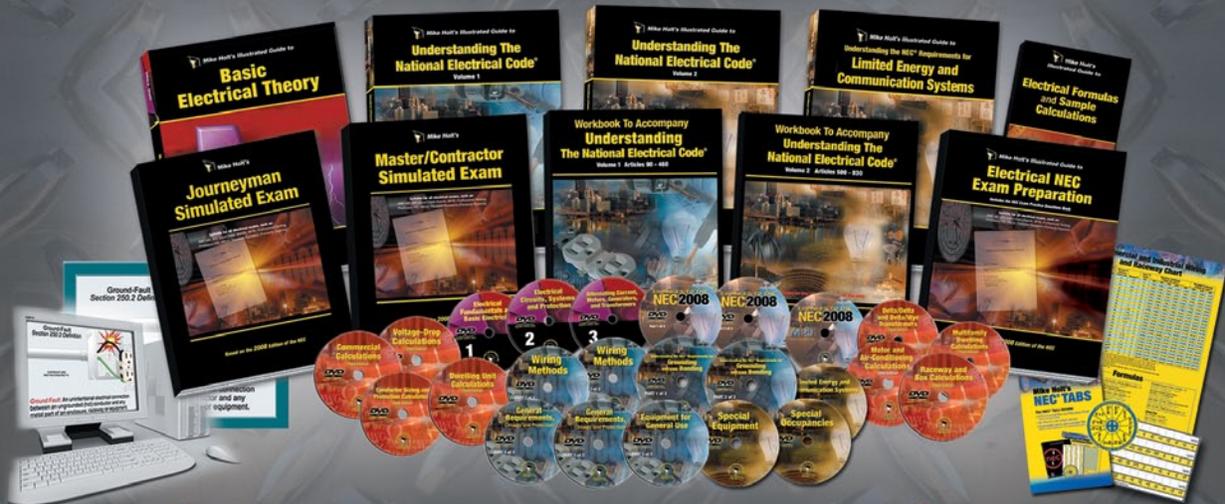
- Grounding and bonding requirements are in the same place in each Article (except for Article 810, which has its own structure).
- Make your grounding run short and straight.
- Focus on eliminating differences in potential.
- Use the Article for your specific installation.

Any time you work on a communications system, turn to Chapter 8. Bond to equalize potential, but ground to protect from lightning.

This is the final article in this series. If you've read them all, you now understand the difference between grounding and bonding—and the purpose of one vs. the other. By not confusing the two, you can eliminate some common causes of unsafe installations.

Ultimate Training Library

Order The Mike Holt Training Library and Save Over \$1,450!



A \$3,078 value—you pay only \$1,595!

As an added bonus, the first 100 orders will receive Mike's Deluxe Estimating Library FREE—a \$295* Value!

ELECTRICAL THEORY

- Basic Electrical Theory textbook/workbook \$50
- *Electrical Fundamentals and Basic Electricity DVD* \$109
- *Electrical Circuits, Systems and Protection DVD* \$109
- *Alternating Current, Motors, Generators, and Transformers DVD* \$109

UNDERSTANDING THE NEC

- Understanding the NEC—Volume 1 textbook \$59
- Understanding the NEC—Volume 2 textbook \$49
- Understanding the NEC Volume 1 workbook \$30
- Understanding the NEC Volume 2 workbook \$28
- Limited Energy and Communication Systems textbook \$49
- *General Requirements two DVDs* \$198

- *Grounding versus Bonding two DVDs* \$198
- *Wiring Methods and Materials two DVDs* \$198
- *Equipment for General Use DVD* \$99
- *Special Occupancies DVD* \$109
- *Special Equipment DVD* \$109
- *Limited Energy and Communication Systems DVD* \$109
- *Grounding versus Bonding MP3 audio CD* \$59

CHANGES TO THE NEC

- Changes to the NEC textbook \$48
- *Changes to the NEC two DVDs* \$198
- *Changes to the NEC MP3 audio CD* \$59
- Code Change tabs \$12
- 16-Hour Online Code Change program \$178

ELECTRICAL CALCULATIONS

- Exam Prep textbook/workbook \$59
- Journeyman Simulated Exam \$20
- Master/Contractor Simulated Exam \$25
- *Electrical Formulas with Sample Calculations book* \$26
- *Raceway and Box Calculations DVD* \$99
- *Conductor Sizing and Protection DVD* \$109
- *Motor and Air-Conditioning Calculations DVD* \$79
- *Voltage-Drop Calculations DVD* \$79
- *Dwelling Unit Calculations DVD* \$99
- *Multifamily Dwelling Calculations DVD* \$99
- *Commercial Calculations DVD* \$109
- *Transformer Calculations DVD* \$109

Take Your In-House Training to the Next Level, Order Today!

NAME	COMPANY			TITLE
<hr/>				
BILLING ADDRESS	CITY	STATE	ZIP	
<hr/>				
SHIPPING ADDRESS	CITY	STATE	ZIP	
<hr/>				
PHONE	FAX	E-MAIL ADDRESS	WEB SITE	
<hr/>				
<input type="checkbox"/> CHECK <input type="checkbox"/> VISA <input type="checkbox"/> MASTER CARD <input type="checkbox"/> DISCOVER <input type="checkbox"/> AMEX <input type="checkbox"/> MONEY ORDER				
CREDIT CARD # : _____ EXP. DATE: _____				

Mike Holt's Ultimate Training Library

- Ultimate Training Library with DVDs 2008 NEC \$1,595
- Ultimate Training Library with DVDs 2005 NEC \$1,595

*FREE Deluxe Estimating Library (available only to the first 100 orders)

Subtotal \$ _____
 Sales Tax FLORIDA RESIDENTS ONLY add 6% \$ _____
 Total Price \$ _____
 Shipping: \$20. \$ _____
 TOTAL DUE \$ _____

Mike Holt Enterprises, Inc. • 3604 Parkway Blvd. Suite 3, Leesburg, FL 34748 • FAX 1.352.360.0983 • www.MikeHolt.com

www.MikeHolt.com • 1.888.NEC.CODE (632.2633)

FAEC 1-DAY CE SYMPOSIUM PHOTOS



ATTENTION ELECTRICAL CONTRACTORS
ELECTRICIANS ARE GOING GREEN

PRE-ENGINEERED PV KITS (Solar Electricity – Photovoltaic)

- Tax Credits / State Rebates / Utility Incentives
- Design, Sizing and Financial Analysis
- Complete All Inclusive Engineering Services
- Site Surveys / Wind Load Calculation

PLUG INTO THE SUN TO MAKE MONEY!

SOLAR SOURCE 1-800-329-1301
www.solarsource.net

INSTALLATION TRAINING FOR YOU AND YOUR STAFF

 **solarsourceinstitute**
training for our future

Surge Suppression
for a Digital World™

Surge Suppression
Jacksonville

J. Keith McPherson

(904) 726-8980 • (888) 987-8877

P.O. Box 8632 • Jacksonville, Florida 32239
www.tvssprotector.com • www.surgesuppression.com



630 Kissimmee Avenue
Ocoee, FL 34761

Michael Freiner
Vice President

Tel: 407-654-0155
Fax: 407-654-5160
Email: mikef@brifutelectric.com



Installation & Service
Commerical - Residential
Sate Certified EC0001196

WILLIAM L. MANNING

10876 S.W. 91st Avenue
Ocala, Florida 34481
(352) 854-8338 Fax (352) 854-4009

Industrial
Commercial
Petroleum Equipment

Licensed Bonded
State Certified
EC0000913



Blake Ferguson, Jr.
Estimator/Project Manager

(407) 834-2345
Fax (407) 834-1777

Coastal Electric Co. of Florida
Jeff Sanders
2759 St. Johns Bluff Road
Jacksonville, FL 32246
(904) 645-0026



Don Stebbins

875 Jackson Avenue • Winter Park, Florida 32789
407-646-8700 Ext. 774 • 407-647-8951 FAX
State License #EC1858



Wiring Florida since 1958

Electrical Contractors, Inc.

430 West Drive • Altamonte Springs, FL 32714

P: (407) 788-3500 F: (407) 682-1096

C: (407) 402-1663

ROCKY SNEED

Systems Department Manager

E: rocky.sneed@tcelectric.com

ABC ACCREDITED QUALITY CONTRACTOR

EC0000981

Commercial • Industrial

Kim's Electric, Inc.

13619 N. Main St., Jacksonville, FL 32218

EC 1092

www.kimselectric.com

(904) 757-6633

(904) 545-8684 Cell

(904) 757-5375 Fax

kim.kimselectric@comcast.net

Kimberly A. DeBerry
President

Timothy Quigley

President

Residential & Service Division



"Safe Electrical Systems, From Our Family To Yours"

600 N. Thacker Ave., Suite "A"

Kissimmee, FL 34741

EC0002831

www.terrysselectric.com

PH: (407) 572-2100

Fax: (407) 932-1135

Toll Free: 1-888-278-3779

timquigley@terryselectric.com

C-7037 ER 0007827 RF 0049903



Well Drilling • Electric • Plumbing

MIKE CAUTHEN

President

352/620-9322

P.O. Box 473

Sparr, FL 32192

Phone 757-8424

Fax 757-7811

EC 864

EN 210908

DeBERRY ELECTRIC Co., Inc.

Commercial • Industrial

David Alan DeBerry
President

P.O. Box 26037
Jacksonville, FL 32226-6037

If a Business fails to check the Motor Vehicle Record of a driver,

someone may have to pick up the pieces.

Ask your local Federated representative about how your business can implement a **DRIVER INSURABILITY PROGRAM**, which includes systematic procedures for checking MVRs—because your business is only as safe as your drivers.

Nationwide coverage, local service.

The FEDERATED Insurance Companies
Home Office: 121 East Park Square, Owatonna, Minnesota 55060
(507) 455-5200 • INTERNET: www.federatedinsurance.com

* All programs and services may not be available in all states.





Residential, Commercial & Industrial Circuit Breakers



CIRCUIT BREAKERS

CIRCUIT BREAKER MTG. HDWR. ■ BUSS DUCT PLUGS

AIR BREAKERS ■ MOTOR CONTROL ■ PANEL MOUNT SWITCHES

SAFETY SWITCHES ■ TRANSFORMERS

4305 LILBURN INDUSTRIAL WAY, LILBURN, GA 30047

Toll Free: 877-512-6600

Phone: 770-263-6600 • Fax: 770-263-6619

Email: sales@southernelectricalresources.com

www.southernelectricalresources.com



ProValue[®]

PROFESSIONAL QUALITY. EXCEPTIONAL VALUE.



- **CABLE TIES**
- **EXIT LIGHTS**
- **WIRE NUTS**
- **SMOKE DETECTORS**
- **FASTENERS**
- **GROUND RODS**

AVAILABLE EXCLUSIVELY FROM



Daytona

386.255.7008

Lady Lake

352.753.4555

Ocala

352.732.2995

Tallahassee

850.575.0138

Ft. Myers

239.931.4400

Lakeland

863.688.5511

Orlando

407.841.4710

Tampa

813.621.9649

Gainesville

352.377.0792

Marianna

850.526.3271

Panama City

850.236.3419

West Palm Beach

561.684.7466

Jacksonville

904.783.4567

Melbourne

321.724.5880

Pompano Beach

954.782.6712

Kissimmee

407.870.8558

Miami

305.805.3830