

The *Electrical* **CONTACTOR**

THE OFFICIAL PUBLICATION OF THE FLORIDA ASSOCIATION
OF ELECTRICAL CONTRACTORS

Volume 2 Number 4
WINTER 2007



April 12-14, 2007

FAEC 2007

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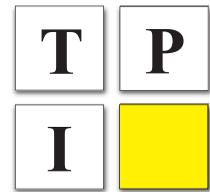
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Orlando Resort at ChampionsGate

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For all our members who did NOT attend this year's convention at the beautiful Hawk's Cay resort on Duck Key, let me tell you what you missed. There were great educational programs along with tons of fellowship, lots of laughs, fishing and fun for all. It was wonderful to meet so many new members and spouses! Each year we've watched the conferences grow bigger and bigger in attendance and this fall was no exception. Thank you all for participating.

At this year's event, we were pleased to have the privilege of honoring many members for outstanding service to the Association and our industry. We gave out 14 plaques to members who have joined our "Legislator's Club" by sending in a legislative donation to help off-set our lobbying fees. We presented plaques to members who helped throughout the year on behalf of educational programming, enhancement of the magazine—which is second to none here in Florida—and above all, a very special "new award" was created and presented for the first time. It was the "FAEC Shining Star" award, presented to Jeff Dionne of STE Electric in Apopka. Jeff is a new up and coming Central Florida Chapter Board member who has worked diligently on behalf of the Chapter and our community service committee. This will now be an annual award to be presented each year hereafter.

I would be remiss if I did not mention the special Industry Award presented to Mr. Mike Freiner with Amber Electric in Ocoee. Mike is currently the Central Florida Chapter President who has worked miracles in regenerating interest into our Chapter. As you may (or may not know), the FAEC Central Florida Chapter is the biggest, most active Chapter of the Association. It had been struggling over the past several years as most of our members had already passed through the chairs. This year we were able to add several new board members and with Mike at the helm, the chapter has soared! Mr. Freiner is an exemplary member and a true asset to FAEC. Thanks again, Mike, for helping make FAEC Central Florida Chapter all that it should be!

We currently are busy preparing for the Spring Conference that will be held at the Omni Hotel at Champion's Gate in Orlando next year, April 11-14, 2007. The property truly is amazing. It has a "lazy river" that circles around the hotel and ends in the pool—you just lazily float around on an inner tube until you splash into the pool. This is a great property for adults and kids alike, so plan to bring your family to this event. Included in this publication is an "early bird" registration form for you to utilize when making your hotel arrangements and registering with FAEC. A complete program brochure will be mailed to all members shortly after the first of the new year.

Our Fall Convention will be held at the Wyndham Hotel in Jacksonville in October. Another beautiful property located in downtown Jacksonville near Riverwalk.

In the coming months, you will all be receiving your 2007 dues invoice. After 10 years—at least—of holding the line, the Board voted to increase the dues in order to continue providing the quality service and products we currently produce. Our magazine has become known throughout the industry here in Florida and it is very costly to produce. We believe it is the "face" of FAEC and one we can be proud of. However, it costs money to manufacture and mail. Our intention is to put the "CONTACTOR" in the hands of as many State Certified/Registered Electrical Contractors as possible. And that costs money! More than we have currently. So, when you receive your bill, know that this decision was not easy for the board to reach but one we felt we had to implement. We trust you all understand.

In closing, I would like to take this opportunity to wish you all the very best of Holiday Seasons this year and continued success for 2007.

Happy Holidays and see you all in April.

FAEC BENEFITS OF MEMBERSHIP INCLUDE:

- A Voice in the Legislative Process through a full-time lobbyist in Tallahassee.
- An Annual "Spring Conference" & "Fall Convention" offering Continuing Education classes relative to license renewal.
- The official publication of FAEC — The "Contactor" 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.
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GROUNDING VERSUS BONDING

By Mike Holt, NEC Expert

Part 3 [Based on the 2005 NEC]

Grounding and Bonding at Service Equipment

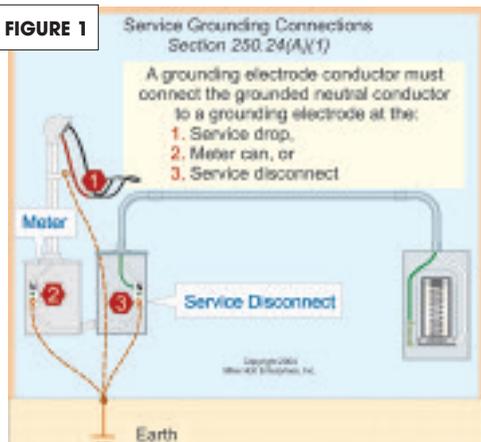
Because utilities provide grounded ac services and most facilities have at least one utility service connection, a grounded ac service probably provides power to your premises wiring system. When you have a grounded ac service, your premises wiring system must have a grounding electrode conductor connected to the grounded service conductor [250.24(A)(1)]

This brings up the question of how to comply with grounding electrode conductor requirements. Because a grounding electrode conductor must connect the grounded conductor to the grounding (earthing) electrode, the question of how expands to include where. Can you make this connection just any place?

Location, location, location

Some inspectors require the grounding electrode conductor to terminate to the grounded conductor terminal at the meter enclosure. Other inspectors require the grounding electrode conductor to terminate to the grounded terminal at the service disconnect.

FIGURE 1



The Code says you can make this connection at any accessible location—from the load end of the service drop or service lateral, up to and including the service disconnecting means. See Figure 1. The choice then becomes an engineering decision that balances such factors as installation costs, available space, and maintenance issues.

Connections

In this day of increased demand for uninterrupted power, many facilities are dual-fed. This means they have separate lines coming to the same service—we refer to such services as “double-ended.” If the dual feeds are in a common enclosure (or grouped together in separate enclosures) and they employ a secondary tie, you can use a single grounding electrode connection to the tie point of the grounded conductors from each power source [250.24(A)(3)].

Whether your service is double-ended or not, you must install an unspliced main bonding jumper between the grounded terminal and the metal parts of the service disconnecting means enclosure. Ensure the bonding jumper complies with 250.28 and the installation complies with 250.24(C).

Your main bonding jumper is probably a wire or busbar. Let’s say it is. And, let’s say you’ve installed this jumper from the grounded conductor terminal (or bus) to the equipment grounding terminal (or bus) in the service equipment. In this case, the NEC allows you to connect the grounding electrode to the same equipment grounding terminal (or bus or bar) to which you connected the main bonding jumper [250.24(A)(4)].

My name is Bond. Load (side) of Service Equipment Bond

A neutral-ground bond at other than service equipment is a common cause of power quality problems. Such a bond creates ground loops, which allow undesired current to circulate in the system. Power quality problems often lead to the discovery and removal of such a bond. But, don’t wait for power quality problems to reveal the bond. Another concern makes corrective action imperative. Load side neutral-ground bonds



allow objectionable current to flow on conductive metal parts of electrical equipment—thereby violating 250.6(A). This objectionable current can cause lethal electric shock. And, it sets the stage for inadvertent flashovers, overheating of equipment, and other problems stemming from electricity in the wrong place.

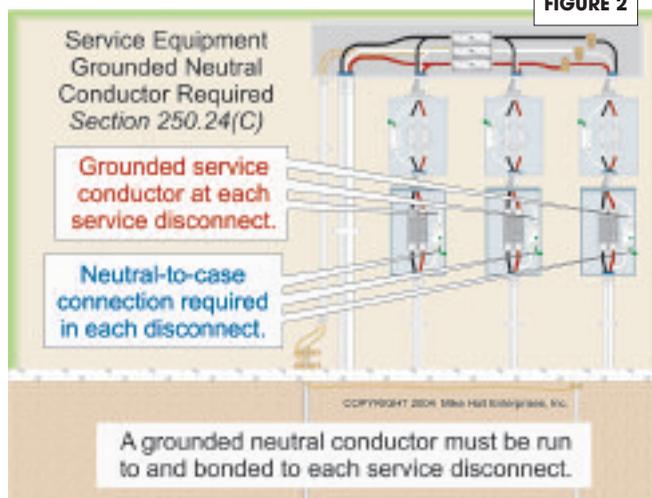
So, don’t make (or allow) a neutral-ground connection on the load side of the service disconnect [250.24(A)(5)]. There are two exceptions to this [250.142]. You can make this connection for:

- Separately derived systems if you follow the requirements of 250.30(A)(1).
- Separate buildings, if you follow the requirements of 250.32(B)(2).

Grounded Conductor

Electric utilities typically do not provide an equipment grounding (bonding) conductor to service equipment, and aren’t required to do so. Thus, you must run a grounded conductor from the electric utility transformer to each service disconnecting means [250.24(B) and 250.130(A)]. See Figure 2.

FIGURE 2



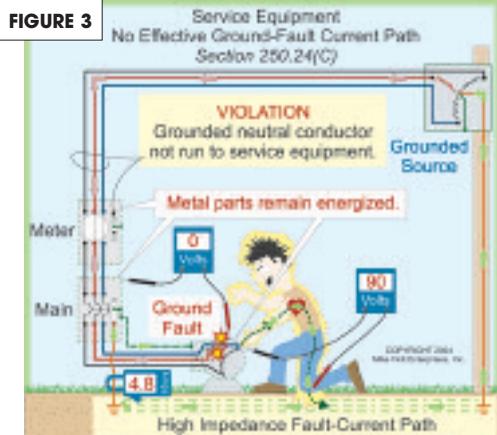
Why is this important? Because the grounded service conductor provides the effective ground-fault current path to the power source



winding. This path ensures that opening the circuit protection device will quickly remove dangerous ground fault voltage from the circuit [250.4(A)(3) and 250.4(A)(5)].

Don't try to use the earth as a bonding jumper. The resistance of the earth is always too great for the earth to be an effective bonding jumper. Very little fault current returns to the power source winding if earth is the only fault-current return path.

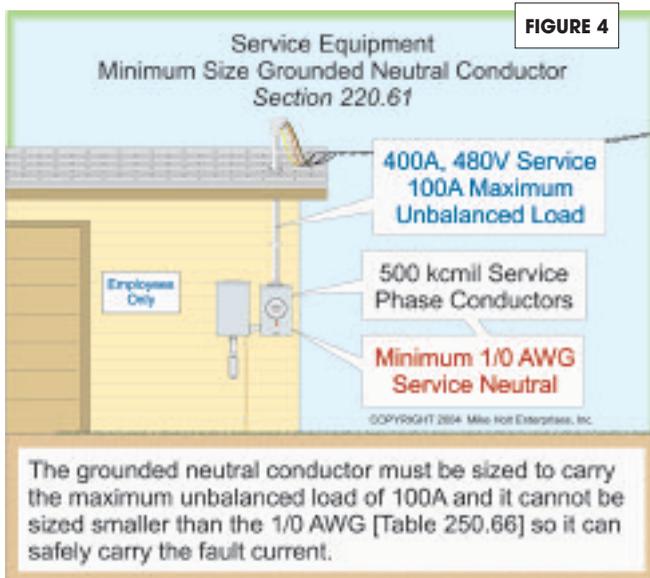
But, let's suppose the earth is your only fault-current return path. What would be the consequences? For one thing, the circuit overcurrent protection device will not open and clear the ground fault. Consequently, metal parts such as metal piping and structural building steel will become—and remain—energized to circuit voltage (Figure 3). The system then poses a high risk of shock, arc blast, and fire.



You can mathematically determine, for example, the voltage on a metal enclosure due to an open service grounded conductor. Forensic engineers often crank out these kinds of numbers when investigating why someone died or why a facility blew up. It's easier just to comply with NEC requirements—to eliminate such a voltage in the first place.

So, you see the need for a grounded conductor—but how big should it be? Remember, this grounded service conductor serves as the effective ground-fault current path. Thus, you must size it so it can safely carry the maximum fault current likely to be imposed on it [110.10 and 250.4(A)(5)]. To accomplish that, size the

grounded conductor per Table 250.66—based on the total area of the largest ungrounded conductor. The grounded conductor must also have the capacity to carry the maximum unbalanced current, per 220.61.



Test your understanding with a quick quiz. Here's the question: What is the minimum size grounded service conductor required for a 480V, three-phase service, where the ungrounded service conductors are 500 kcmil and the maximum unbalanced load is 100A (Figure 4)?

- (a) 3 AWG (b) 2 AWG
- (c) 1 AWG (d) 1/0 AWG

Now, here's the explanation. The unbalanced load requires a 3 AWG grounded service conductor—rated for 100A at 75°C per Table 310.16 [220.61]. However, the grounded service conductor cannot be smaller than 1/0 AWG (Table 250.66). This minimum size requirement ensures the conductor will accommodate the maximum fault current likely to be imposed on it. Thus, the answer is (d) 1/0 AWG.

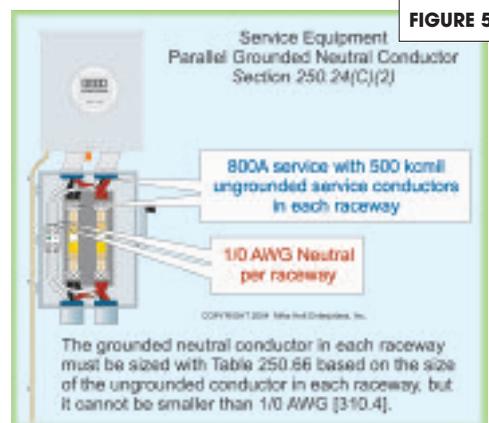
What if you parallel your service conductors? Does that mean you use just the one conductor, or do you parallel your grounded conductor the way you parallel the current-carrying conductors? Answer: No to both.

First, you must install a grounded conductor in each raceway whenever you parallel your service conductors.

Second, you cannot simply divide your grounded conductor into two smaller equal conductors. Yes, doing so would satisfy the

requirement that the grounded conductor must have the capacity to carry the maximum unbalanced current per 220.61. But, it could also result in a grounded conductor that is too small for a given raceway.

To eliminate such a problem, size each grounded conductor per Table 250.66—based on the total area of the largest ungrounded conductor in the raceway. Note that regardless of the number you come up with, the grounded conductor in each parallel service raceway can never be less than 1/0 AWG [310.4].



Let's review this with a quick quiz. Here's the question: What is the minimum size grounded service conductor required for a 480V, three-phase service installed in two raceways, where the ungrounded service conductors in each of the raceways is 350 kcmil and the maximum unbalanced load is 100A (Figure 5)?

- (a) 3 AWG (b) 2 AWG
- (c) 1 AWG (d) 1/0 AWG

Now, here's the explanation: The unbalanced load requires only a 3 AWG grounded service conductor, per Table 310.16 [220.61]. However, the grounded service conductor in each raceway cannot be smaller than 2 AWG (Table 250.66) [250.24(C)(2)]. As before, this is to ensure it will accommodate the maximum fault current likely to be imposed on it. But, ungrounded service conductors run in parallel cannot be smaller than 1/0 AWG [310.4]. Thus, the answer is (d) 1/0 AWG per raceway.

Properly grounding and bonding service equipment improves safety while eliminating a common cause of power quality problems. You just have to make the right connections in the right places. If you think in terms of providing a low impedance ground-fault path back to the source, you will have no problem doing so.





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Full Registration Fee must accompany this form. Full refund given if cancellation is received 14 days prior to convention.

Early Bird Registration Fees Before March 1, 2007

- _____ FAEC Member(s) @ \$300.00 per person
- _____ Project Manager/Key Personnel \$200.00 per person
- _____ Member Spouse/Guest(s) @ \$200.00 per person
- _____ Non-Member \$500.00 per person**

After March 1, 2007

- _____ FAEC Member(s) @ \$350.00 per person
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Labor Pool Employees

By Rick Watson

A question recently was asked of me about a bill that passed during the 2006 Florida Legislative Session. The ECLB had taken a strict view of labor pool employees and ruled that they could not work for electrical contractors. Language passed in HB 219 provides that an employee assigned to a client company by a labor pool or temporary employment agency (temporary help arrangement organization) that is licensed, registered or certified pursuant to law is an employee of the client company for licensure, registration or certification. The bill also specifies that an employee assigned to a

client company by a labor pool or temporary employment agency shall be deemed an employee of the labor pool or temporary employment agency for purposes of workers' compensation and unemployment compensation.

The bill is reproduced below. The pertinent part is Section 3 at lines 52-62.

HB 219 — Labor Pools by Rep. Troutman and others (CS/SB 1166 by Commerce and Consumer Services Committee and Senator Bennett)

HB 219

1 A bill to be entitled
 2 An act relating to labor pools; amending s. 448.24, F.S.;
 3 providing a limit on the amount a labor pool may charge a
 4 laborer for transportation to or from a designated
 5 worksite; authorizing a labor pool to provide day laborers
 6 with a method of obtaining cash from a cash-dispensing
 7 machine; amending s. 448.23, F.S.; conforming a cross-
 8 reference; creating s. 448.26, F.S.; providing for
 9 application of pt. II of ch. 448, F.S., the Labor Pool
 10 Act; providing an effective date.
 11
 12 Be It Enacted by the Legislature of the State of Florida:
 13
 14 Section 1. Paragraph (b) of subsection (1) of section
 15 448.24, Florida Statutes, is amended, and subsection (7) is
 16 added to that section, to read:
 17 448.24 Duties and rights.—
 18 (1) No labor pool shall charge a day laborer:
 19 (b) More than a reasonable amount to transport a worker to
 20 or from the designated worksite, but in no event shall the
 21 amount exceed \$1.50 each way the prevailing rate for public
 22 transportation in the geographic area; or
 23 (7) Nothing in this part precludes the labor pool from
 24 providing a day laborer with a method of obtaining cash from a
 25 cash-dispensing machine that is located on the premises of the
 26 labor pool and is operated by the labor pool, or by an
 27 affiliate, pursuant to chapter 560, if required, for a fee for
 28 each transaction which may not exceed \$1.99, provided:
 29 (a) The labor pool offers payment in compliance with the
 30 provisions of paragraph (2)(a).
 31 (b) The day laborer voluntarily elects to accept payment
 32 in cash after disclosure of the fee.
 33 (c) The cash-dispensing machine requires affirmative
 34 action by the day laborer with respect to imposition of the fee
 35 and allows the day laborer to negate the transaction in lieu of
 36 payment in compliance with paragraph (2)(a).
 37 Section 2. Section 448.23, Florida Statutes, is amended to

38 read:
 39 448.23 Exclusions.—Except as specified in ss. ~~4~~
 40 448.22(1)(c) and 448.26, this part does not apply to:
 41 (1) Business entities duly registered as farm labor
 42 contractors pursuant to part III of chapter 450;
 43 (2) Employee leasing companies, as defined in s. 468.520;
 44 (3) Temporary help services engaged in supplying solely
 45 white collar employees, secretarial employees, clerical
 46 employees, or skilled laborers;
 47 (4) Labor union hiring halls; or
 48 (5) Labor bureau or employment offices operated by a
 49 business entity for the sole purpose of employing an individual
 50 for its own use.
 51 Section 3. Section 448.26, Florida Statutes, is created to
 52 read:
 53 448.26 Application.—Nothing in this part shall exempt any
 54 client of any labor pool or temporary help arrangement entity as
 55 defined in s. 468.520(4)(a) or any assigned employee from any
 56 other license requirements of state, local, or federal law. Any
 57 employee assigned to a client who is licensed, registered, or
 58 certified pursuant to law shall be deemed an employee of the
 59 client for such licensure purposes but shall remain an employee
 60 of the labor pool or temporary help arrangement entity for
 61 purposes of chapters 440 and 443.
 62 Section 4. This act shall take effect July 1, 2006.
 CODING: Words ~~stricken~~ are deletions; words underlined are additions.

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Approved by the Governor on May 11, 2006 in Chapter No. 2006-10. These provisions take effect July 1, 2006.

Rick Watson

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FAEC

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CONVENTION



CRAIG EDDINGTON receives special recognition award.



BILL MANNING receives recognition as our convention auctioneer.



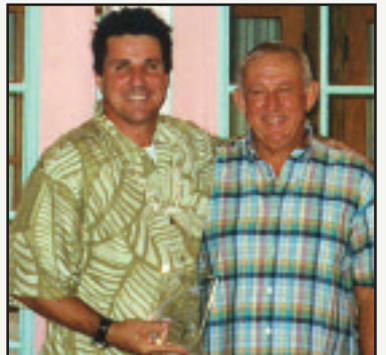
KIM MANNING receives recognition on behalf of Women's Auxiliary.



CRAIG EDDINGTON-SESCO conducts a mini-mart session.



MIKE FREINER receives achievement award.



JEFF DIONNE receives special achievement award.



Ladies craft class.



Mini-mart session.

A large graphic for CEED (Consolidated Electrical Distributors). At the top, it says "Nationwide Support-Local Service". Below this are several inset images: a woman at a computer, a collection of electrical components, a man looking at a blueprint, and a long aisle of an electrical supply store. At the bottom is the CEED logo, which consists of the letters "CEED" in a stylized, metallic font, with a gear icon inside the "E". Below the logo, it says "Consolidated Electrical Distributors".



► President's Message ◀

By Mike Freiner, Amber Electric

In the past, I informed you of the current condition of the Central Florida Chapter. It was bleak to say the least. In fact we knew it was a do or die year for the Chapter. Taking into consideration the mindset of our industry, which is to build, demolish and re-build, the Board quickly put things in perspective. By following the model of our industry, our direction became obvious. We can't build because FAEC was already built. We can't demolish because demolition had already begun. There was only one consideration left. We must rebuild. And so we did!

Thanks to the hard work of many members including your Board of Directors, it is my pleasure to announce that the Central Florida Chapter of FAEC is back and stronger than ever. As an overview I have listed many of our accomplishments this year.

- We have a very active Board of Directors with 100% participation.
- Our membership increased by five new members.
- We had three General luncheon meetings with topics from apprenticeship to employee management.
- We had two CPR classes and one First Aid class so far and there will be two more classes scheduled before the end of the year.
- There will be one on Supervisory Transition and one on Industry Law.
- We had the *second largest* Golf Tournament in FAEC history with *137 golfers* followed by our traditional annual BBQ, Table Top Exhibits and Volley Ball Tournament with ten teams participating.

- We introduced and initiated a new *Industry Trustee Program* this year and we already have two trustees. They are **SESCO LIGHTING AND GE SUPPLY**.
- We created a *Best Practices Committee* this year which is now ready to start moving forward with their goals.
- Through the hard work of our *Community Service Committee*, we will be donating approximately \$1500.00 to Camp Challenge this year. This is a camp for the disabled.
- Central Florida participation at FAEC State Conferences is up significantly.
- We successfully published four *quality* Newsletters this year thanks to Jamie Fugate, Cheryl DeFilippo and the input of our membership.
- We held our Edison Award presentation dinner and Casino Night on October 14th.
- Last but not least, we are now operating the Central Florida Chapter in the black!

In closing I would like to **thank you, our members**, for your continued support. Without each and every one of you, none of this could have been possible. A special thanks to our Board of Directors, all our committee members and the staff at JaFic for their hard work and dedication to FAEC.

Have a wonderful holiday season and I look forward to another great year in 2007!

~ Mike

ACT Announces NEW EXECUTIVE DIRECTOR

After a search for several months, the Academy of Construction Technologies (ACT) has found the perfect person for Executive Director – Nancy Merced. What does Nancy bring to ACT?

- Strong ties to the Construction Industry
- Currently involved in the schools
- 30 year resident of Central Florida

Nancy and her family moved to Osceola County thirty years ago. She grew up in her family's Air Conditioning business. After high school graduation, she was their office manager for 13 years. She later worked with construction companies, assisting in payroll and OSHA needs. Nancy and her husband have two children in Osceola County Schools, where she is very involved in school activities. Since starting the job on July 1, Nancy has already visited high school classes; technology/guidance counselors and contractors.

Would you like to know more about ACT and what they're doing to get young people excited about construction? Do you need a "refresher" on ACT? Call Nancy—she would like to meet you! ACT Phone: 407.851.7803 • contact@actcareers.com

FAEC/CF Committee Reports

Education Committee - Joe Bell, Chairman

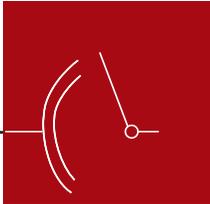
FAEC's second class this year was held June 22, with a full house of 21 attendees. This class was for First Aid Certification—something every construction worker should know the basics of. The Education Committee is working on classes for next year. Is there a special class you'd like to offer your employees? If you have any great ideas, let us know!

Program Committee - Mike Freiner, Chairman

We are currently compiling a list of luncheon programs for next year with input from our membership. If you have any ideas or would like to see a specific topic presented, please e-mail your ideas to Cheryl at the Association Office. Due to the very busy season ahead, there will not be another General Luncheon meeting until January. Our Goal for 2007 will be six General Luncheon meetings. Your attendance at these luncheon meetings is very important. We look forward to seeing you all in January.

Membership Committee - Joe Bell, Chairman

The Membership Committee continues to reach out to potential FAEC members. In June, a mailing was sent to contractors, introducing them to the benefits that FAEC provides through their CEU classes scheduled in June.



FEAT Registration for Fall Classes

July 26th was the first of two nights registration for new FEAT students. Registration started at 5:30. At 5:10, there were 2 lines of prospective apprentices in the lobby and out the door to the parking lot. Then the rain started and there were two lines looped around the lobby, and down the hall. Two more lines developed at the copiers, where we were copying documents, and one line started up the stairs for ID pictures. Upstairs, we had the “big” room set up for 145. When it reached “standing room only”, the students who wanted to attend TECO (Osceola County) and Seminole Community College (SCC) went back downstairs and filled 2 classrooms. In another classroom, Don Manley was registering a group of apprentices who had previously dropped from FEAT and had returned to successfully complete the program.



Yes, we were pleased, amazed, and—by the end of that first night—very tired! On those two nights, over 300 new apprentices applied to enter FEAT. Of those, 11 had participated in the ACT Program and 12 more were granted academic credit. To ensure that everyone who applied could attend class, we added an extra Term 1 class for the Fall Semester at TECO and at Mid Florida Tech. Unfortunately, for those who missed one of the 2 nights of registration, we had to ask them to wait until next semester to start Apprenticeship. FEAT Coordinators all previously worked in the Electrical Industry. We are very proud that our Industry is the biggest supporter of Apprenticeship and believes in educating our workforce.



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Application for Membership

COMPLETE AND MAIL TO FAEC • PO BOX 180458 • CASSELBERRY, FL 32718-0458

With your Check for the proper dues amount!

Full year's dues must accompany application. Dues for second year will be prorated on applications received March 1 thru November 1.

I, _____, apply for membership in FAEC...a non-profit organization, devoted to the betterment of the Electrical Contracting Industry in the State of Florida.

Name: _____ Title: _____

Company: _____ Phone (____) _____

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(open to all state registered or certified electrical contractors)

Dues Schedule (Check One):

- New Member First Year Only, \$150**
- State Certified or Registered Electrical Contractor:** \$300.00 Per Year
- Certified Specialty Contractor:** licensed by ECLB \$200.00 Per Year
- Key Personnel:** Any person (non-master) in the employ of an electrical contractor desiring to support the interests and efforts of the Association whose responsibilities include overseeing construction projects, estimating, purchasing, safety programming, etc. \$50.00 Per Year
- Non-Contractor:** A master electrician not conducting electrical contracting \$50.00 Per Year

Company Contact Name: _____

ER or EC Number: _____

AFFILIATE

(open to all manufacturers, distributors, suppliers, and others who wish to maintain close contact with the industry and support the goals of the association)

- New Member First Year Only, \$150**
- Dues Schedule: \$300.00 Per Year**

In 25 words or less describe what your firm sells to electrical contracting firms, or describe your interest in relation to FAEC.

I agree to assist, to the best of my ability, the efforts of FAEC to improve our industry and abide by the by-laws and code of ethics.

Signed: _____ Date: _____

Sponsored by: _____

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|----|------------------------|----------------------|
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