

# THE ELECTRICAL TRADES CENTER

AUGUST 2012 BULLETIN 2012-1



THE ELECTRICAL TRADES CENTER

NECA



## ETC Recognized As a *Trailblazer* By DOL

In 1937, President Roosevelt signed into law the Fitzgerald Act creating the United States registered apprenticeship system. In Washington D.C. on August 1, 2012 the United States Department of Labor will be celebrating the seventy-fifth anniversary of the signing of the Fitzgerald Act by holding a one day *OutBuild, OutEducate, OutInnovate* event at the Department of Labor's *Great Hall*.

### 75 Years of the National Apprenticeship Act

**★ OUTEDUCATE**  
**OUTBUILD★**  
**★ OUTINNOVATE**

A large part of the event will be recognizing and honoring registered apprenticeship programs that have been identified as innovators, programs that can provide a model for what apprenticeship in the next seventy-five years may look like. The Electrical Trades Center has been selected as a recipient of one of these unique *Trailblazer Awards*. The ETC is being tapped for this prestigious award for work on several fronts; the ETC's unique relationship with Columbus State Community College, that provides an associate's degree option to apprenticeship completers. The ETC's ground

breaking *Student Partner* program which provides a seamless pathway from secondary to post-secondary education. The ETC's *Construction Trades Network* pre-apprenticeship program which provided a path to registered apprenticeship for deserving dislocated workers. And finally the award recognizes the unique apprenticeship selection procedure the ETC employs that utilizes the Construction Wireman program.

When asked how this award will impact the ETC, Director Steve Lipster said "This award really validates the kind of innovative thinking that has always been a trademark of the Board of Trustees of The Electrical Trades Center, although with this validity comes a certain responsibility to keep the various programs at the ETC moving forward in a way that first serves our dynamic industry." Lipster continued "And of course this award also validates the hard won partnerships we have with local career-technical centers as well as our flagship partner, Columbus State. I hope this honor provides a means to strengthen these vital relationships."

## GPAD News

The Central Ohio fair and festival season is in full swing, and hopefully you've had a chance to unwind at one of these great events. The GPAD and brand new GPAD Jr. are making the rounds - catch up with them on Facebook [www.facebook.com/theGPAD](http://www.facebook.com/theGPAD) or online at [www.thegpad.org](http://www.thegpad.org)



DOL Sect. Solis visits the GPAD, Business Manager Giardelli and Senior Technology Instructor Engle in June of 2011

614.463.5282

# ETC Phasing in *Blended Learning*



Very soon the printed workbooks we all grew to love will be gone. The NJATC is adopting a “blended learning” approach to the curriculum that substitutes the printed work book with lessons completed online. This isn’t computer based online coursework – the blended learning concept melds the best parts of classroom and online study. Assigned homework will be completed online by the student, the instructor will have the ability to monitor the students’ progress and will be able to tailor the following nights lesson plan to provide the most impact.

For example, during a DC Theory homework assignment, the instructor observes 85% of the class “gets” series circuit resistance, however only 5% are “getting” parallel resistance – the instructor then can tailor the next lesson to focus on parallel resistance while offering individual help to those needing series reinforcement. This

will enhance both the lecture and lab components of the curriculum.

A further benefit to blended learning is the instructor knows exactly how much time an individual student has spent on individual questions as well as the entire assignment. Allowing resources to be focused on those who are working hard but just don’t get it, rather than those who are too lazy to do the work.

The ETC has been selected by the NJATC to be a beta test site for blended learning, meaning that this year the first year students will be completing their homework online and attending school in the evenings as is tradition. Of course this means that first year students will be required to provide themselves with a laptop, which they will use for their entire course of study; because next year the second and first year materials will be delivered using the blended learning model. In four years all the curriculum will be delivered in this manner.

This follows a continuing trend at the ETC. In 2011 motor control students were required to provide themselves with a laptop. In 2012, in addition to motor control and first year students, building automation and industrial automation students will be required to provide themselves a laptop running Windows 7. Technology marches on and we must follow.



## Bill Davies Joins ETC as Field Evaluator

Former Business Representative and ETC Trustee Bill Davies joined the ETC as a part-time field evaluator in the fall of 2011. Bill’s duties include performing on the job field evaluations of Student Partners, Construction Wiremen and Apprentices.

Bill’s evaluations have proved to be a big help in monitoring the progress of these workers. With that being said the classic Monthly Progress Reports are still the main method of evaluating Student Partners and Apprentices. Please complete these important reports honestly and on time and please make sure the completed evaluations find their way to supervision.

Field evaluations are critical to assure we are investing resources properly. Please feel free to call or email if you have a positive or negative comment about a Student Partner or Apprentice, these important evaluations are everyone’s responsibility.

# ETC Moving From Academic Quarters to Semesters

This fall all University System of Ohio schools will be moving from a quarter based academic calendar to a semester based schedule. In order to preserve the hard won college credit for all, The Electrical Trades Center will be following suit and adopting a semester schedule beginning this August.

The change to semesters is much more than a simple calendar adjustment, every course has been reformatted to fit the new schedule. Some courses, such as *Lon Works*, have been combined with other material to become *Building Systems Integration - Energy Efficiency*, a comprehensive full term sixteen week course. Others, such as *Solar Photovoltaics* have been pared down to a half term eight week course. Up to date course descriptions may be found on the ETC's website: [www.electricaltrades.org](http://www.electricaltrades.org).

The change is significant on the calendar as well. In years past the ETC operated on an academic quarter calendar, which provided four 11 week terms – Autumn, Winter, Spring and Summer Quarters for study. The semester calendar provides three 15 week terms – Autumn, Spring and Summer Semesters. The semester schedule starts earlier in the year, typically the third week of August and provides a much longer, typically four week, winter holiday break. Current schedules may be found on the ETC's website: [www.electricaltrades.org](http://www.electricaltrades.org).



**Check Out the New Schedule  
and the New Courses at:**

**[www.electricaltrades.org](http://www.electricaltrades.org)**

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2012-2013

**SUMMER 2012**  
**May 21,2012 to July 12,2012**

Columbus State Community College General Education Courses	ENGL 101 M-W HUM 152 T-TH
Journeyman/ Inside Wireman Apprentice Electives	Electrical Project Supervision T-TH Structured Wiring (BICSI level 2 Copper) M-W Welding T-TH
Journeyman Courses	Variable Frequency Drives (July 12-July 21) T-TH
OSHA 10 HR	1st Wednesday Each Month W-M-W
Drug Free Workplace	1st Tuesday of Each Month (5:00-7:00)

**Industrial Automation:** This high tech course is for journeyman and apprentices that are looking to gain valuable knowledge in the world of automation. This course will include topics such as advanced motor control devices and components, solid state controls, PLC's and VFD's. Students will be expected to pass a basic computing skills test in order to be eligible to enroll.

**Electric Vehicle Infrastructure Training Program:** This journeyman certification class is designed to give you the credentials you need to install Electric Vehicle Supply Equipment(EVSE). Topics covered include vehicles, EVSE, code requirements, load calculations, site assessments, utility integration, setup and commissioning.

**Variable Frequency Drives:** This introduction to VFD's will prepare the user to wire, setup, commission, and troubleshoot VFD's. Topics will include design, operation, power, speed, torque, advantages and disadvantages, and applications. This is a 4 night course

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2012-2013

	<b>AUTUMN SEMESTER</b> <b>August 29, 2012 to December 13, 2012</b>	<b>SPRING SEMESTER</b> <b>January 14, 2013 to May 9, 2013</b>
Journeyman/ Inside Apprentice Electives	Industrial Automation- M-W * Solar/PV T-Th (Aug 30-Oct 23)+	AutoCAD MEP- T-R * Fiber Optics- T-R (Mar 19 to May 09)+ Structured Wiring (BICSI Level 2 Copper) M-W (Mar 18 to May 08)+
Journeyman Courses	Electric Vehicle Program M-W (Oct 24-Nov19)	Motor Controls M-W*
Significant Changes to NEC 2011 (10 Hour OCILB credit)	<b>Course A</b> (Sep 09 to Sep 20) T-R <b>Course B</b> (Dec 06 to Dec 13) T-R	<b>Course C</b> (Apr 09 to Apr 16) T-R
Inspector's License 10 Hour Code (OBBS)	<b>Course A</b> (Sep 09 to Sep 20) T-R <b>Course B</b> (Dec 06 to Dec 13) T-R	<b>Course C</b> (Apr 09 to Apr 16) T-R
OSHA 10	1st Wednesday each month - W-M-W ( 3 evenings) (5:00-8:30)	1st Wednesday each month - W-M-W ( 3 evenings) (5:00-8:30)
OSHA 30	M-W (Aug 29 to Oct 01)	M-W (Apr 08 to May 05)
Fire Alarm Exam Prep	Tues Dec 11	
Electrical Safe Work Practices - NFPA 70e	M-W (Oct 15 to Oct 17)	M-W (Apr 01 to Apr 03)
BICSI CECs		T-TH (Feb 26-Mar14)
DFW Supervisor Recertification		Thur Jan 24 (5:00 – 7:00)
DFW Supervisor (New certification)		Thur Jan 24
Drug Free Workplace	1st Tuesday each month (5:00-7:00)	1st Tuesday each month (5:00-7:00)

\* Denotes full semester course (16 weeks)

+ Denotes half semester course (8 weeks)

**All Courses 5:00p-8:00p unless noted otherwise**