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AACC SEED Webinar:

Building Quality Workforce Development Programs for Real Energy Efficiency Jobs

September 22nd 2011









initiative SEEE5 Sustainability Education & Economic Development

AACC SEED Webinar:

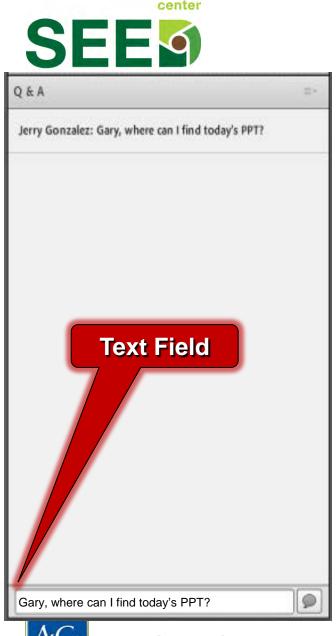
Building Quality Workforce Development Programs for Real Energy Efficiency Jobs

September 2011

Help

Full Screen

AACC's SEED Init





Submitting Questions

- To submit a question, type the question in the text field and press your Enter/Return key.
 - Please enter the name to whom the question is directed.
- Your name and your question will appear on your screen, indicating successful submission.
- Questions are directly transmitted to presenters—no other participants will see your questions.



Practice: Attendance

- In the chat room, please type:
- your name,
- the name of your organization
- your location, and
- the number of people attending with you today.







SEED: Brought to you by AACC



Sustainability Education & Economic Development

A coordinated national strategy to support community colleges in building a green and sustainable economy



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Supported by the Kresge Foundation





- Benjamin Goldstein,
 U.S. Department of Energy
- Pat Fox,
 Interstate Renewable Energy Council
- Roger Ebbage,
 - Lane Community College (OR)





Why This Topic

- Many of our colleges are in the residential weatherization and/or energy auditing space now (80+% offer course(s), 50+% offer certificate/degree)*
- Confusing and uncoordinated emergence of credentials
- Significant placement challenges



*of those colleges that identified offering a green-related course or program

Guidelines for Home Energy Professionals





Project Overview September 2011

Project Overview



Collaboration between DOE and home performance industry

- Combined DOE/Weatherization Assistance Program (WAP) 30-year history with 2,000 industry members involved
 - DOE collected industry knowledge with the understanding that industry best knows the market and how to execute



Consists of three components

- 1. Guidelines for Quality Work
- 2. Guidelines for Effective Training
- 3. Guidelines for Professional Certifications

Critical to DOE efforts to reduce U.S. energy consumption and strengthen the home energy upgrade market

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Meeting Project Goals

Project goals:

- Certify a highly-skilled workforce
- Build a stable, growing industry

To meet these goals we must:

- Define *work quality* for U.S. home energy upgrades
- Train workers what they should know and be capable of doing
- Provide *certifications* that verify worker qualifications and help workers differentiate and market themselves



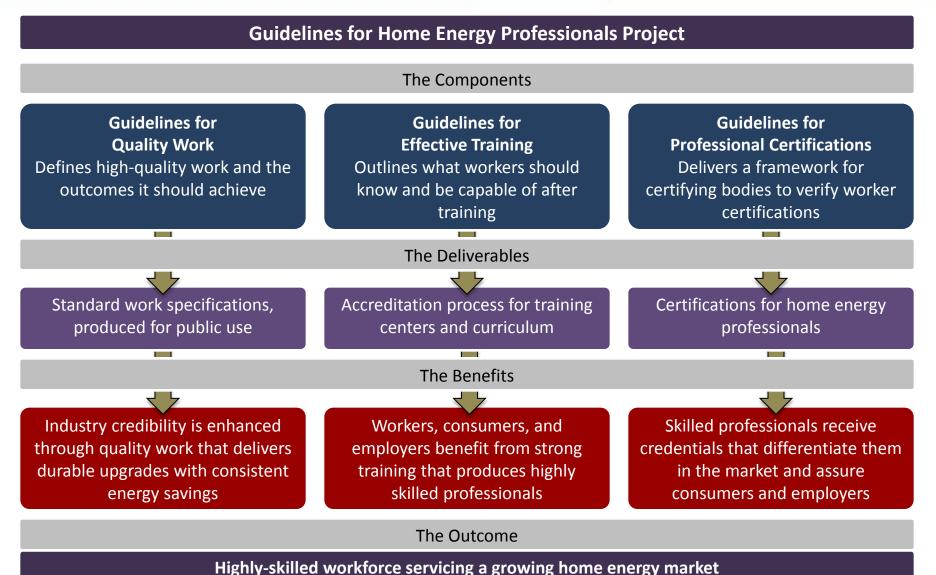
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Energy Efficiency & Renewable Energy

Components, Benefits, & Outcomes

ENERGY Energy Efficiency & Renewable Energy



(#) | Guidelines for Home Energy Professionals

Professional Certifications

ENERGY Energy Efficiency & Renewable Energy



Four certifications that enable professionals to move across the field and enhance skills in a customized career path.

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(#) | Guidelines for Home Energy Professionals

Terms and Definitions

- Accreditation
 - Is given to the **training provider**
 - Verifies that the training provider and their curricula provide a standard in both its operations as well as facilities



- Is given to individual workers
- Certifies that an individual has the knowledge, skills, and abilities to perform a certain job
- Is issued by an independent, third-party certification body





eere.energy.gov

Accredited training providers hold the key for the Guidelines for Home Energy Professionals project



Energy Efficiency &

Renewable Energy

U.S. DEPARTMENT OF

DOE enlisted Interstate Renewable Energy Council (IREC) to accredit training programs that equip workers with strong skills

Accreditations deliver consistency and third-party validation across all training providers and curricula

Professional Certifications

ENERGY Energy Efficiency & Renewable Energy

The National Renewable Energy Laboratory (NREL) issued a competitive solicitation for a certifying body to develop tests and four certifications

 Building Performance Institute (BPI) was selected to expedite delivery



Certifications create nationally-consistent credentials that employers and consumers can trust surrounding professional knowledge and skill

Four certifications are under development:

- Energy Auditor
- Installer/Technical
- Crew Leader
- Quality Assurance Inspector

Professional Certifications

Professional certifications provide assurance of skills, highperformance work, and energysaving results

• Each of these reduce call backs and improve profitability for employers

Certified workers have a competitive edge in the market place and are better prepared to deliver high-quality work and customer satisfaction



Energy Efficiency &

Renewable Energy

U.S. DEPARTMENT OF

ENERG

What's Next

Guidelines:

- Single Family Standard Work Specifications updated and open for additional comments later this year
- Multifamily Standard Work Specifications open for comments in the coming months

Accreditations

 IREC is accepting applications for training provider accreditations at <u>ww.ispqusa.org</u>

Certifications

• Pilot certifications set to roll out in early 2012

Training

- Training providers can begin leveraging tools to develop curricula and gain accreditation
- Sign up for regular project updates: wip.energy.gov/retrofit guidelines.html

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The IREC ISPQ Credentialing Program

Supporting effective workforce development

Pat Fox, Director of Operations

Interstate Renewable Energy Council

September 2011

Who is IREC...

Since 1982, IREC has worked with industry, government, educators, and other stakeholders to ensure that the broader use of renewable energy is possible, safe, affordable and practical.

Easier, more affordable connection to the grid

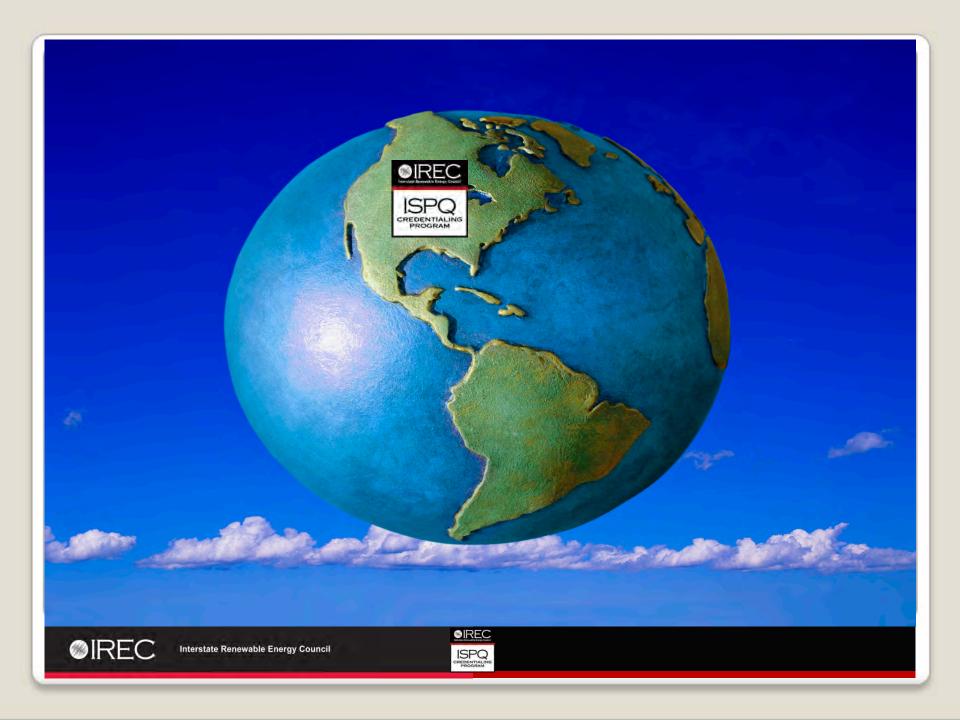


Best practices for states, municipalities, utilities

Uniform Guidelines & Standards









Letters of Intent

- PV
- Solar Thermal
- Small Wind
- Energy Efficiency/Weatherization

Current Awardees

- PV
- Solar Thermal
- Small Wind









IREC ISPQ - Value



Quality assessment of curriculum

Sends a signal to students, employers, and government officials that training standards have been met

Assurance of program quality and value





Six IREC ISPQ Credentials

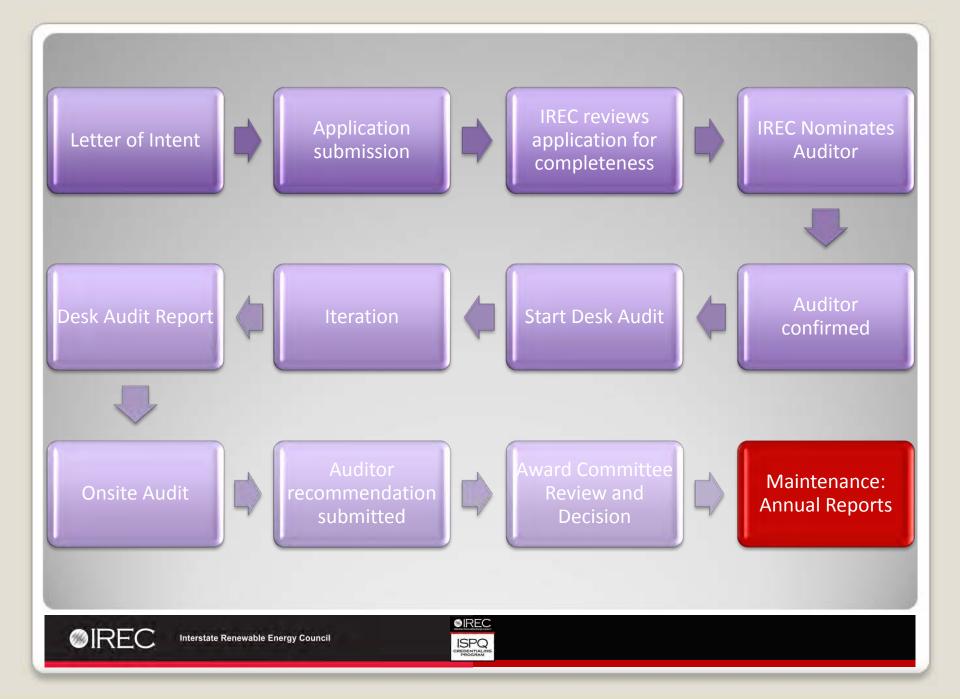
Training Program Accreditation Continuing Education Accreditation

Independent Master Trainer Certification Affiliated Master Trainer Certification

Independent Instructor Certification Affiliated Instructor Certification







IREC ISPQ International Standard 01022

Workplace Knowledge, Skills and Abilities



Safety, codes, core competencies

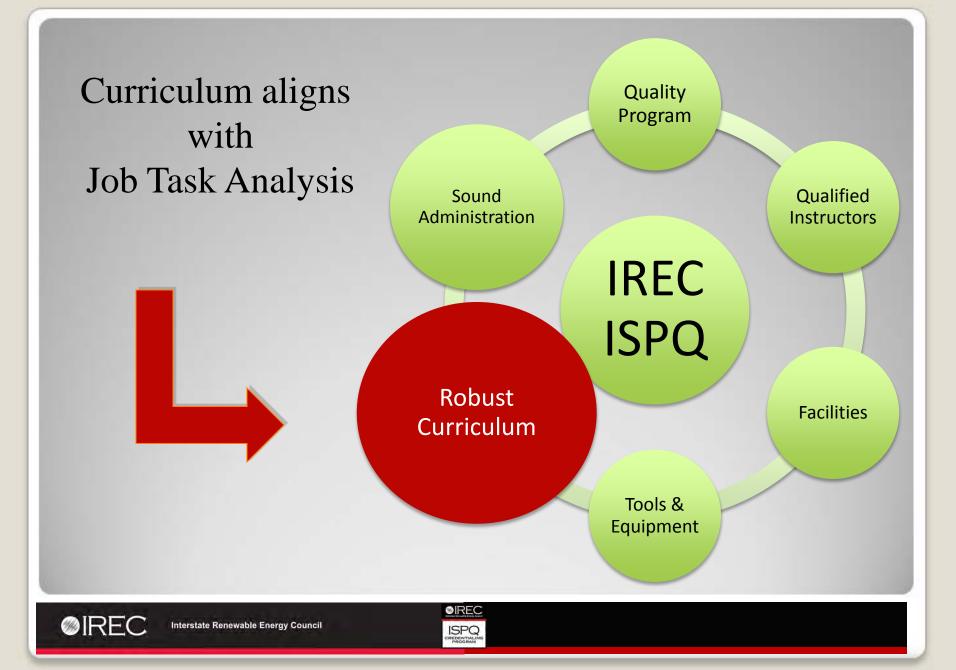


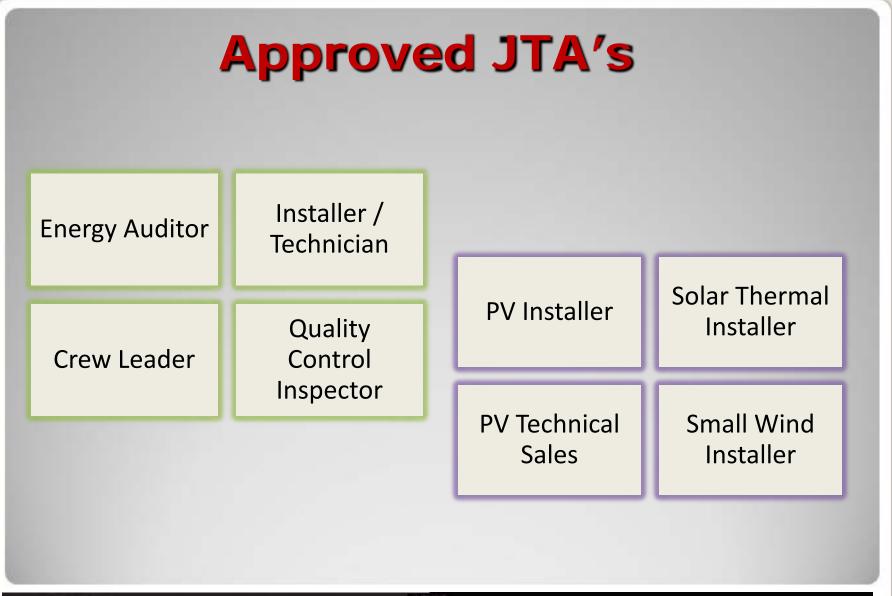
Facilities, tools, safe practices





Evidence of Requirements Policies and Procedures Linkage with Industry Management, financial fitness Resources Safe practices Job Descriptions Task Analysis basis for curriculum or syllabus Facilities Examinations Tools & equipment OIREC **OIREC** Interstate Renewable Energy Council ISPQ







Resources







●IREC



Assuring quality for Renewable Energy & Energy Efficiency training



www.irecusa.org





Pat Fox patfox@irecusa.org

IREC ISPQ (518) 621-7379







The Northwest Energy Education Institute

Eugene, Oregon



Why We <u>All</u> do this Work!

It is impossible to to stress how important improving energy efficiency is and how great an impact it can have on mitigating climate change and reducing our energy bills – now!

It is truly "the first fuel" – the energy source that costs the least to install, has no emissions, is in infinite supply, and can be generated

with a flick of a finger – also known as

turning (stuff) lights off!

Thomas Friedman : Hot, Flat, and Crowded 2009







Two Separate Paths for NEEI Energy Training:



2-Year AAS Degrees Lane Community College



Training Opportunities for Professionals



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Two-year AAS Degrees

(Associates of Applied Science)

• Energy Management (since 1980)



- Renewable Energy Technology (since 2003 ISPQ Accredited)
- Water Conservation Technician (since 2008)
- Resource Conservation Management (2009

Program Student Population has Tripled (from 30 to 90) in the Last Four Years!!





ACCREDITATION



Interstate Renewable Energy Council

"The Interstate Renewable Energy Council is pleased to announce that Lane Community College has been awarded the ISPQ Accreditation credential for their Renewable Energy Technician Program." July 31, 2007



Global Accreditation and Certification

The Institute for Sustainable Power, Inc. (ISP) is a non-profit organization, incorporated in 1996, to coordinate, develop, and maintain international standards for the evaluation and qualification of renewable energy (RE), energy efficiency (EE), and distributed generation (DG) training providers.





Value of Accreditation:

- Industry Accreditation Lets Our Students Know that Curriculum is in Line w/National Standards.
- Accreditation Allows Our Faculty to Target Nationally Recognized Knowledge, Skills, and Abilities (KSA) when Preparing Course Content.
- Industry Accreditation is an Asset when We Compete for Grants.





Advice to New/Existing Energy Efficiency and Renewable Energy Programs:

Have Your Course Developers Address the Accreditation KSAs when Developing a New Course!

Be Prepared for a Thorough Program Review by the ISPQ Auditors!

• Community Colleges have a Portion of the Accreditation Requirements in Place!

Have YOUR Program Stand Out!







Questions?







New SEED Resources and Upcoming Opportunities

- New Toolkit: Creating an Environment for Growing Green Jobs: Community Colleges Shaping State and Local Energy Policies
- Next webinars: Rural-based Green Jobs: What's the Community College Role? (early Nov); Cutting Edge Hybrid Vehicle Training (Nov 30)
- Peer-to-peer Workshop: at AACC's Workforce Development Institute (Jan 25 2011)



Keep up to date at <u>www.theseedcenter.org</u>



Last Chance!

NCCET/NCWE Annual Conference:

Growing the Workforce for a New American Economy—

October 22-25 in St. Louis

http://www.nccet.org/page/NCWENCCET1

