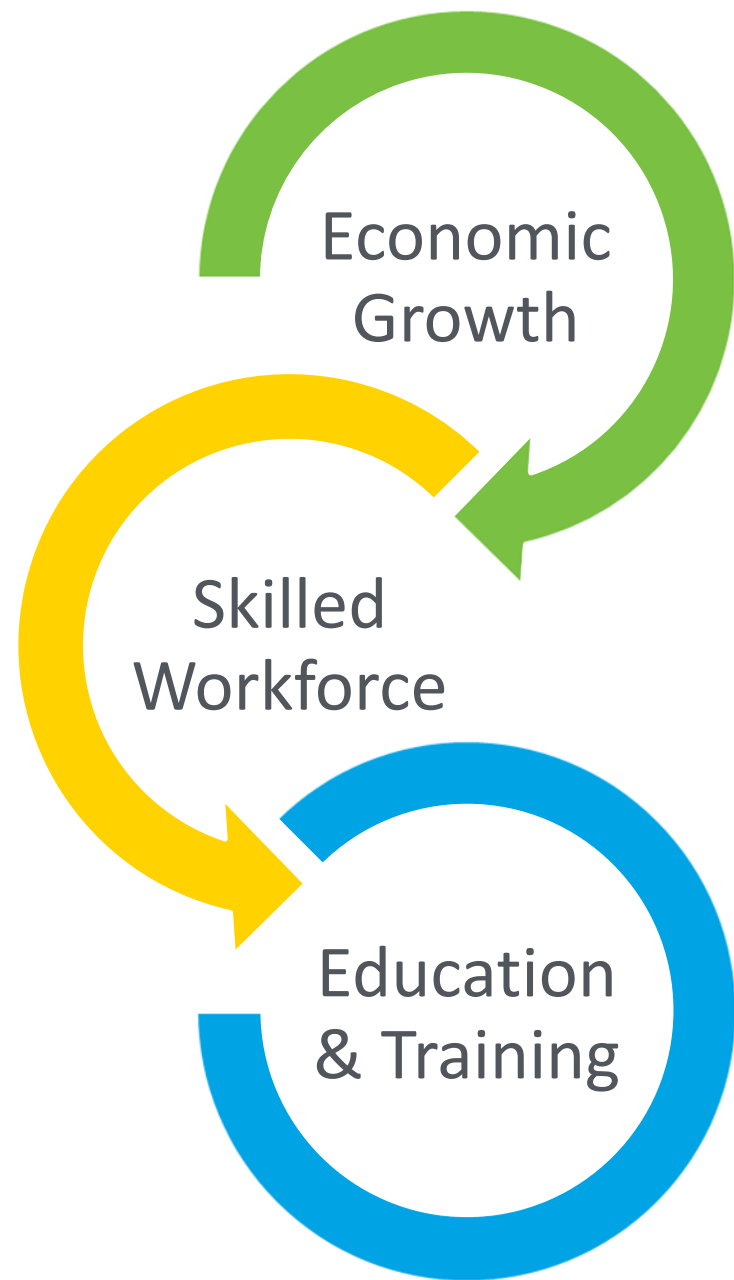


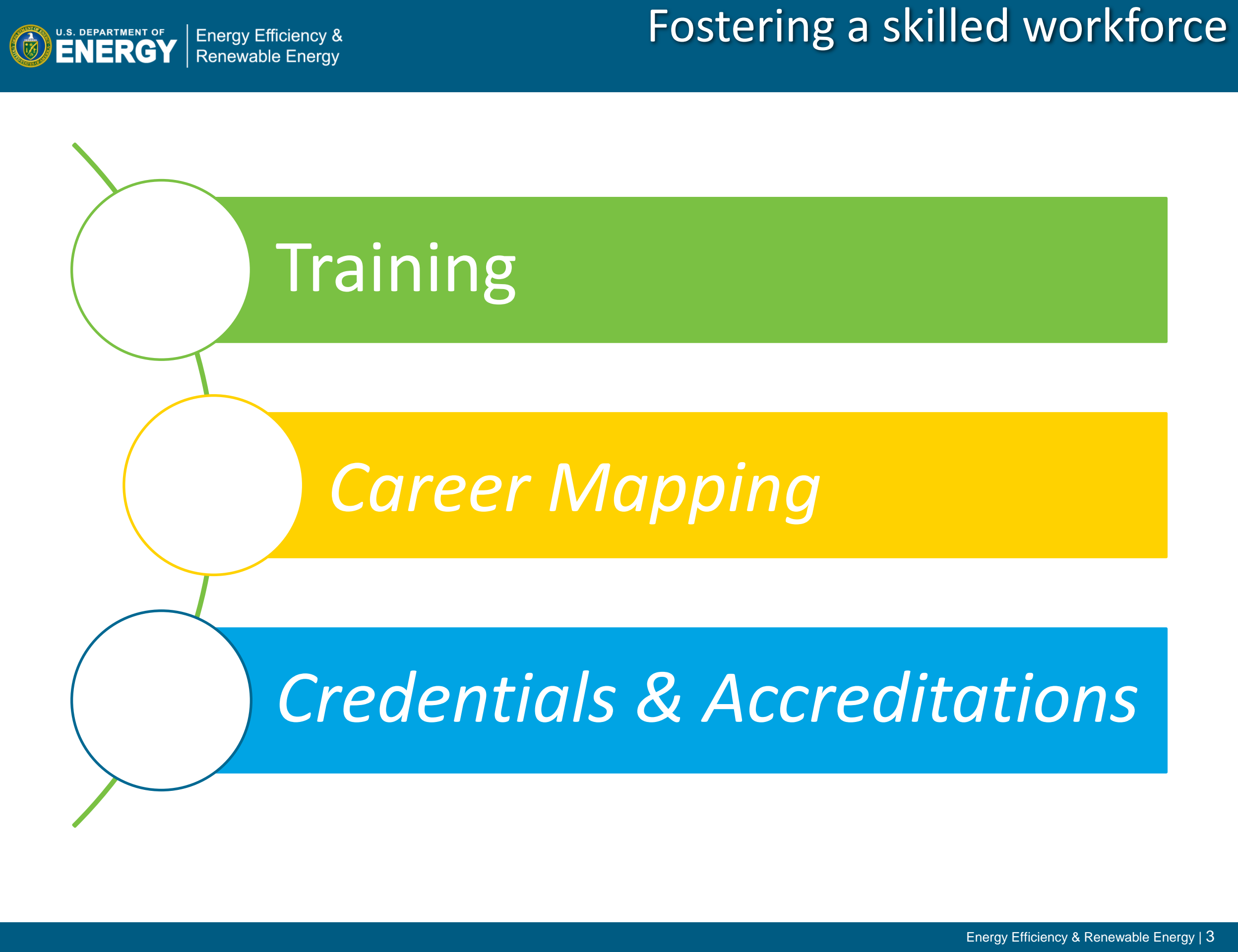


APEC ESCI KSP Workshop
Koh Samui, Thailand
March 19, 2013

Sheila Moynihan
Policy Advisor



- Last year, a record **\$270 billion was invested globally in clean energy**
- Clean energy economy relies on workers that can **innovate, produce, install, maintain, and service** advanced energy technologies.
- To qualify for clean energy jobs, workers need to **sharpen their skills** through education and training.

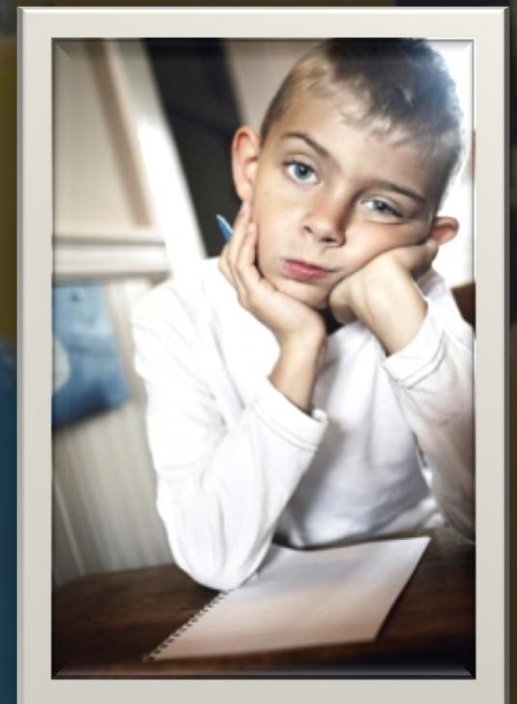


Training

Career Mapping

Credentials & Accreditations

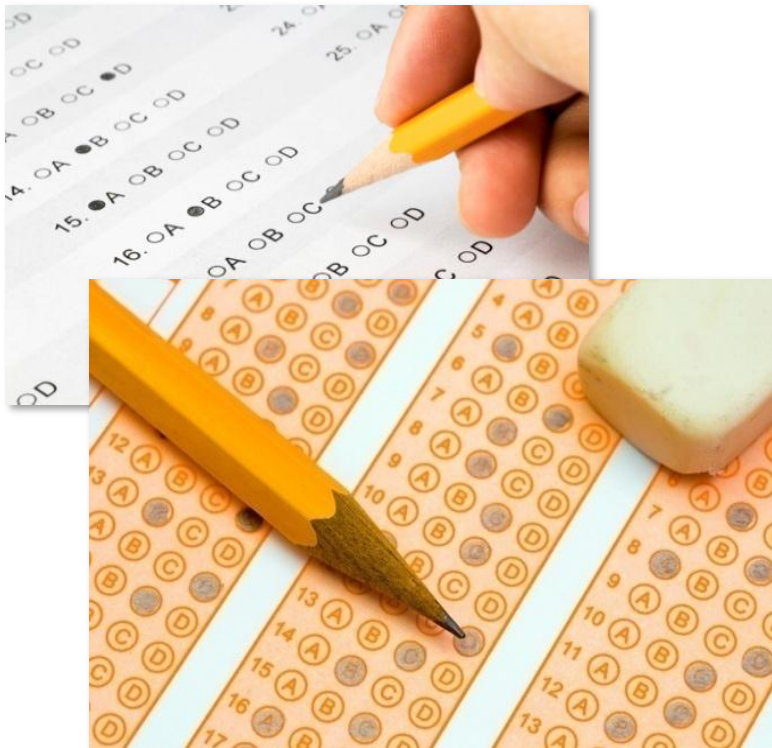
- We don't do anything like we did 20 years ago, but we educate our students the same way we did a century ago
- Lecture format seen as irrelevant for today's learners who are plugged in everywhere





Trading this....

For meaningful, performance-based assessment



Leaky, recessed light fixtures can cause:

- ☐ Electrical problems
- ☐ Ice dams
- ☐ Furnace malfunction
- ☐ All of the above
- ☐ Poor light quality

Submit Answers



Correctly configure the house
for winter conditions



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APEC Open Educational Resources (OER) repository offers an exciting opportunity to transform the lea...



National Training and Education Resource (NTER)

United States

The US Department of Energy developed the National Training and Education Resource (NTER) as an open...

Recent Events

Energy Working Group 45th Meeting

2013-03-18, Samui Island

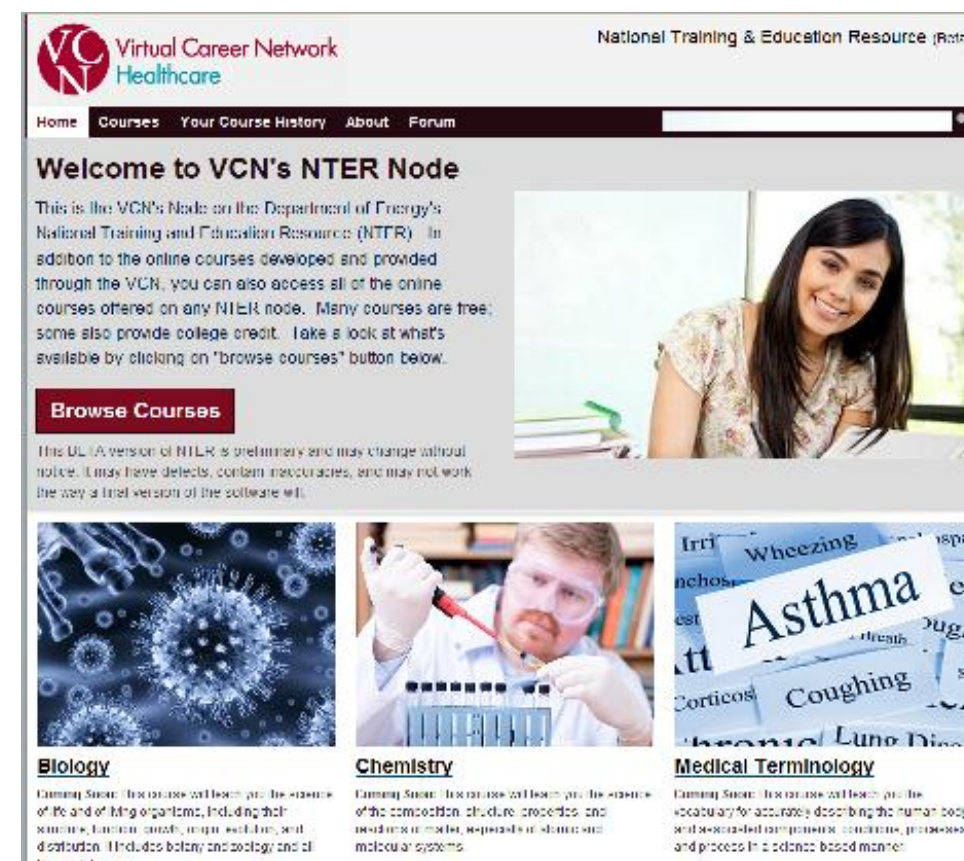
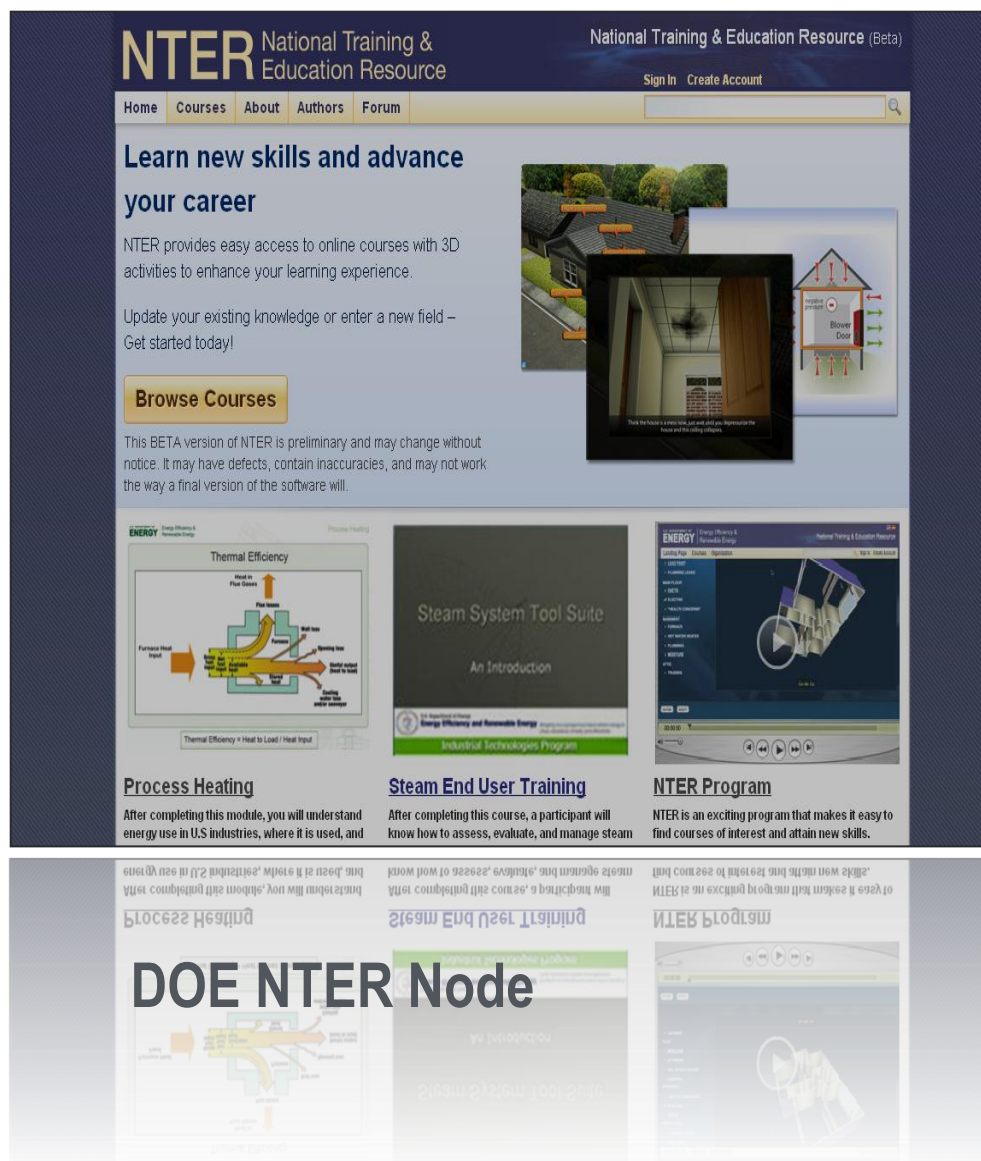
APEC Symposium on Human Capital Policies for Green Growth and Employment

20-21 March 2012, Washington, DC, USA

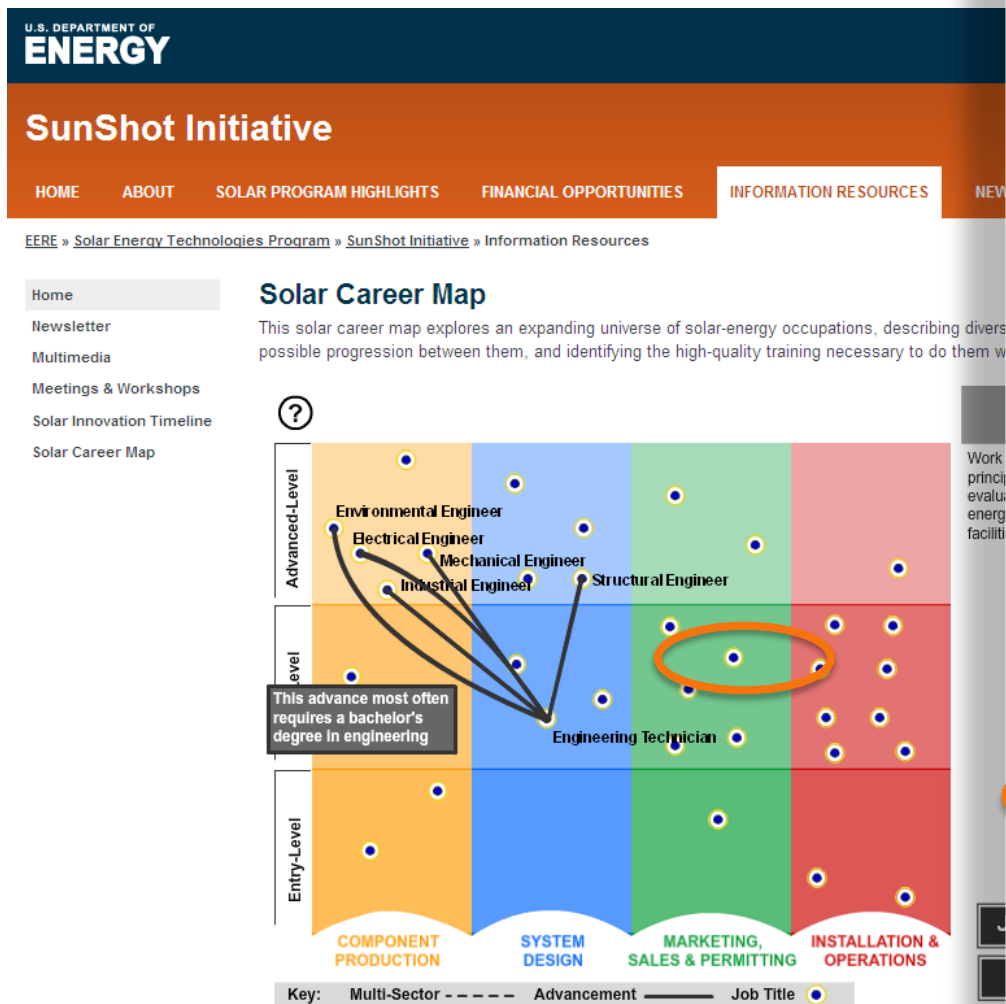
Knowledge Sharing Platform (KSP) Workshop for the Energy Smart Communities Initiative

17-18 October 2011, Kaohsiung, Chinese Taipei

View All Events



Virtual Career Network Node



SunShot Initiative

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Solar Career Map

Engineering Technician

Alternate Title(s): Civil Engineering Technician; Electrical Engineering Technician; Mechanical Engineering Technician; Environmental Engineering Technician

Job Type: System Design

Education & Training Level: Post-Secondary Credential

High school level trigonometry, geometry, and algebra are essential; Associates degree in engineering technology is strongly preferred. Education paths vary depending on type of engineering; technicians usually need a 4-year degree to advance as technologists or applied engineers.

Preferred:
Associate's Degree; Certification <http://irecusa.org/irec-programs/workforce-development/certification-organizations/>

Work Experience: 3-5 years

Median Pay:
\$48,780.00/year
\$22.48/hour

Engineering Technician Profile:
Work with engineers in apply theory and principles of engineering to plan, design, evaluate, and test the performance of solar energy related equipment, processes and facilities.

Engineering technicians use the principles of science, engineering, and mathematics to solve technical problems across all sectors of the solar industry. Their work is more narrowly focused and application-oriented than that of the scientists and engineers they assist. Civil engineering technicians, for example, might design layouts for solar-related projects to ensure compliance with profile and component specifications, square footage, and material quantities; review solar-related project blueprints and structural specifications to determine dimensions and material requirements of a solar structure or system; and develop plans and cost estimates for system installation, facility use, or construction.


Skills:
Mathematics; Computer skills, including computer-aided design and drafting; Active listening; Critical thinking; Complex problem solving; Coordination; Active learning; Data monitoring and assessment

Requirements:
Able to work in a team and communicate clearly with supervisor; Some specialties may require drivers license.

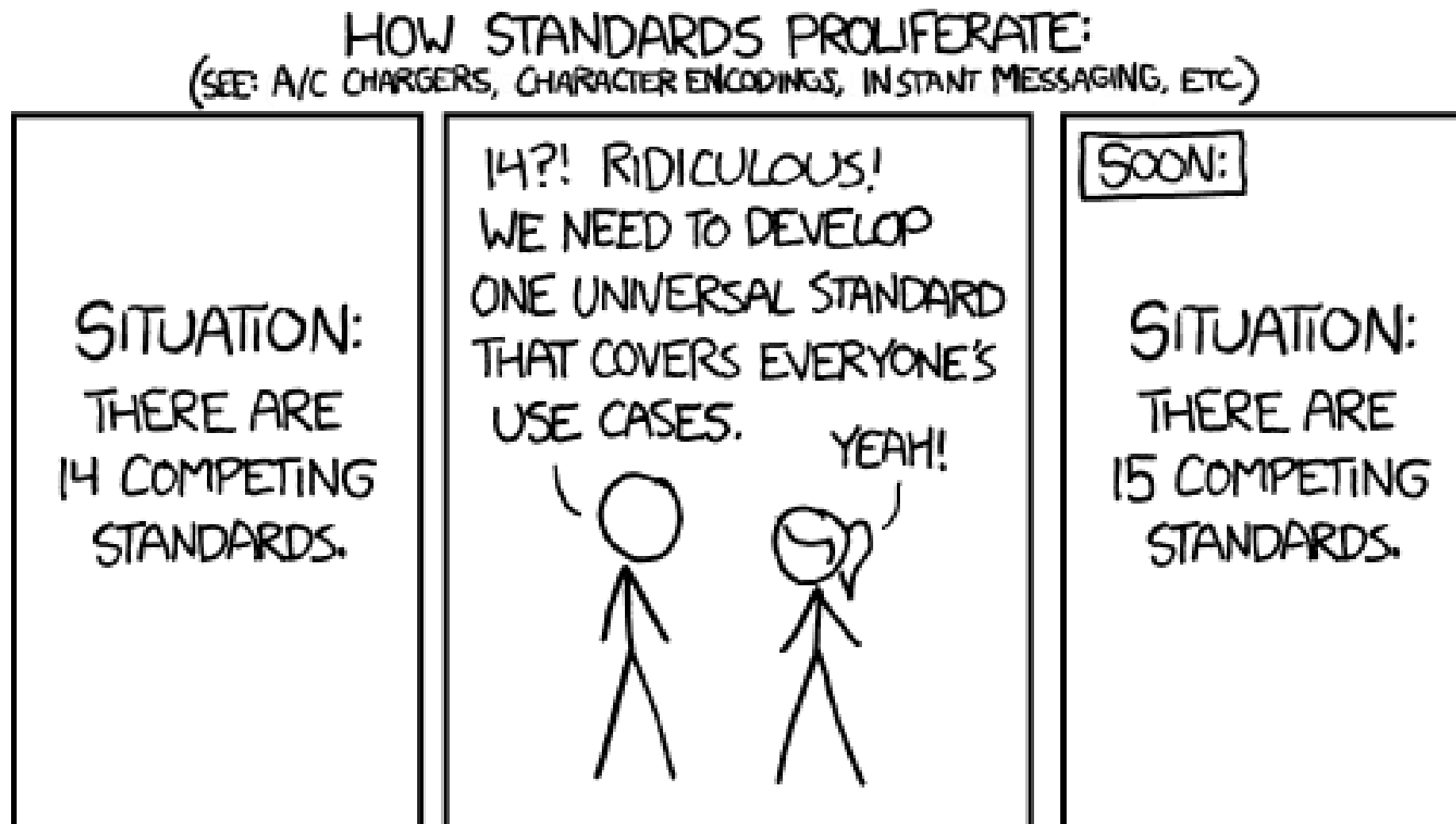
Job Responsibilities:
Estimating the quantifiable characteristics or products, events or information; Evaluating information to determine compliance with

Interests:
Working with a team; Mathematics; Technology design; Problem-solving; Working in a clean energy economy

Did You Know?
Civil Engineering Technician jobs are projected to grow 14%-19% between 2008 and 2018.



“Job Details” for Engineering Technician.





Thank You

Sheila Moynihan

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