Credentialing in the Energy Industry

Valerie Taylor, Educational Consultant
Energy Competency Tier Model for Skilled Technician Positions in Energy Efficiency, Energy Generation and Energy Transmission and Distribution

**Tier 6–8 Job Specific Skills/Credentials**
- Associate Degree
- Boot Camp / Apprenticeship for College Credit
- Accelerated Associate Degree

**Tier 4–5 Industry Fundamentals**
- Energy Industry Fundamentals Certificate

**Tier 1–3 Basic Training**
- Energy Industry Employability Skills Certificate
- National Career Readiness Certificate

Stackable Credentials

- Occupation-Specific Requirements
- Occupation-Specific Technical
- Occupation-Specific Knowledge Areas
- Industry-Specific Technical
- Industry-Wide Technical
- Workplace Requirements
- Academic Requirements
- Personal Effectiveness
Career Pathways

Targeted Outreach and Support

Youth
- Math
- Employability
- Learning to Learn
- Physical Conditioning

Military
- Math
- Employability
- Learning to Learn
- Physical Conditioning

Women
- Math
- Employability
- Learning to Learn
- Physical Conditioning

Low Income Young Adults
- Math
- Employability
- Learning to Learn
- Physical Conditioning

Transitioning Adults
- Math
- Employability
- Learning to Learn
- Physical Conditioning

Work Ready Bootcamps

Tiers 1-5 credentials

Job specific Bootcamps

Job specific Apprenticeships and Credentials

NCRC
- Energy Employability / Work Keys
- Energy Industry Fundamentals (EIF)

Lineworker Bootcamp

Utility Technician Accelerated Associate Degree or Associate Degree

Gas Technician Bootcamp

Apprenticeship for College Credit

Apprenticeship for College Credit

Non-Nuclear Generation Accelerated Associate Degree or Associate Degree

Nuclear Bootcamp

Nuclear Uniform Curriculum Degree
Student Path to Success

Preparation to enter education: Interest to Acceptance into program

Education: Enrollment to Completion of credential with Labor Market Value

Preparation to enter job market: Screening to Selection

Career in Energy

Energy and Education Partnerships
Preparation to enter education:
Work Ready Bootcamps - Front Loading for Success

- Short Term solutions to build individual needs
- Prepare and succeed, not fail and remediate

- Math
- Employability
- Learning to Learn
- Physical Conditioning
Education
Tiers 1-5 Credentials – the foundation

- National Career Readiness Certificate
- Energy Employability / Work Keys
- Energy Industry Fundamentals (EIF)

- NCRC and Energy Employability assess ability to begin training; testing the levels for success through pilots
- EIF curriculum now available
- ANSI accredited certificate available to approved providers
Why an Energy Industry Fundamentals Certificate?

There is no other credential that ensures potential workers have an understanding of the industry as a whole.

– This training/credential helps make occupation-specific training more meaningful, and

– Enables students to understand how individual companies and jobs fit into the big picture.
Education
Tiers 6-8 Credentials – Job Specific

- Lineworker Bootcamp
- Apprenticeship for College Credit
- Utility Technician Accelerated Associate Degree or Associate Degree
- Gas Technician Bootcamp
- Apprenticeship for College Credit
- Nuclear Bootcamp
- Non-Nuclear Generation Accelerated Associate Degree or Associate Degree
- Lineworker Substation, Relay, Engineering, Alternative Fuel or Meter Technician
- Natural Gas, Gas Service or Corrosion Technician
- I & C, Mechanical and Electrical Technician, Auxiliary Equipment Operator, Plant Operator
- Nuclear Uniform Curriculum Degree

Center For Energy Workforce Development
Industry Solutions—Regional Implementation
What’s next?

- Integration of military credentials
- Prior learning credit for military training
- Lineworker and apprenticeship credit recommendations from ACE
- Articulation framework for pathways
- State Energy Career Clusters for Energy Programs of Study
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