

Green Career Pathways Statewide Roadmaps Project

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Presenters

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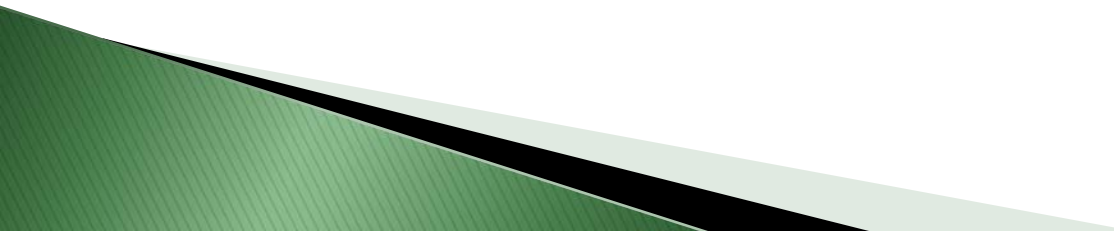
Purpose

- ❑ Provide an overview of the Green Career Pathways Statewide Roadmaps Project (part of the Oregon LMI Green Jobs grant)
 - ❑ Share preliminary research on promising practices (national level) for identifying green jobs competencies, skill progressions and resources
 - ❑ Outline project milestones and timeline
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Overview of Green Career Pathway Roadmaps Project



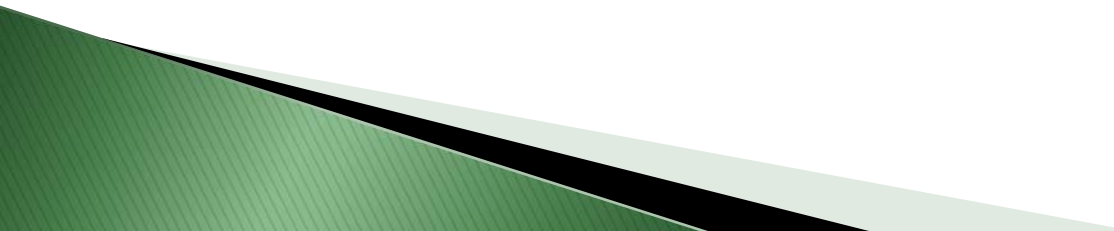
Career Pathways Roadmaps

- ▶ Visual tool for students, advisors, counselors
 - ▶ Common roadmaps elements
 - ▶ 250+ roadmaps on 17 community college websites
 - ▶ Access to roadmaps through OLMIS Occupational Reports
 - ▶ Access to roadmaps through new OWIB website: www.MyPathCareers.org
 - ▶ Future access to roadmaps through CIS
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Green Career Pathways Roadmaps

- ▶ Green LMI grant awarded through ARRA
- ▶ OED lead subcontracting with CCWD
- ▶ Project funds \$94,460
- ▶ Deliverable: statewide career pathway roadmaps in 5–7 occupations
- ▶ Evolution: from 1:1 correlation to 1: many
- ▶ Will be posted on www.MyPathCareers.org
- ▶ Contractor: Audrey Theis, Key Links

Project Timeline (4/10 – 5/11)

- ▶ Prototype development: May–September ‘10
 - ▶ Analyze baseline data from Green Framework
 - ▶ Review national best practices including DOL Competency Model and O*NET
 - ▶ Selection of occupations/industries: wind, solar, construction, HVAC to be considered
 - ▶ OED Green LMI team developed methodology and analysis for selection of occupations
 - ▶ Working closely with WorkKey profilers
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Advisor Team / “Brain Trust”

- ▶ Team forming to guide development of statewide roadmaps.
 - ▶ 4 meetings: 3 conference calls, 1 in person meeting Fall (expenses paid) June 10 – Apr 11
 - ▶ First conference call: June 15 or 16
 - ▶ Oregon Pathway Alliance reps: Serena St. Clair (Rogue), Dave Krumbein (BMCC)
 - ▶ CCWD rep: Shalee Hodgson
 - ▶ ODE rep: Tom Thompson
 - ▶ Volunteers?
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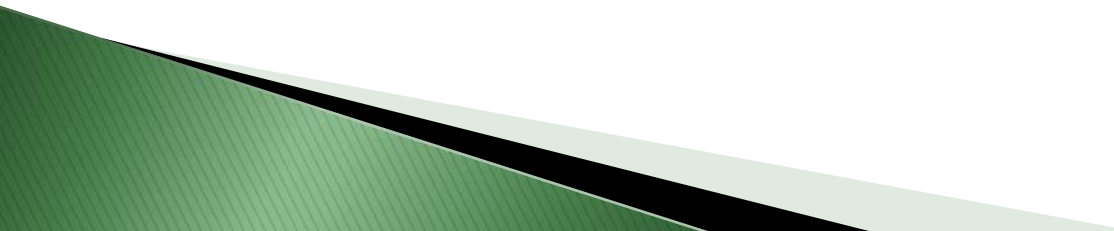
Promising Practices and Tools National Level

Focus of Research

- ❑ Research promising practices/resources as relates to Green Jobs:
 - Competencies
 - Skill Progressions
 - Career Pathways
 - Certifications
 - “Greening” of Curriculum
 - Model Training Programs
- ❑ Focus on 5–7 selected occupations

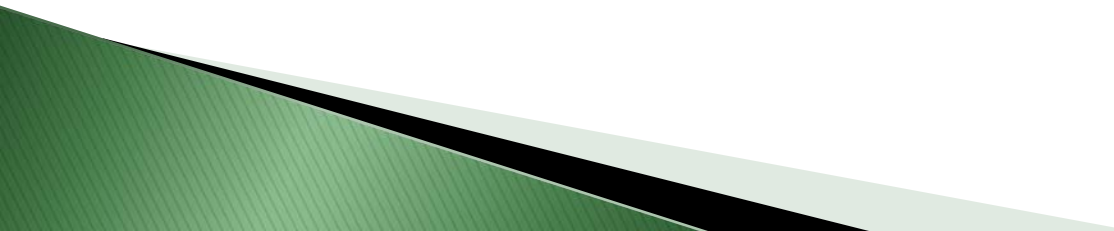
Initial Research

□ National Models

- Provide conceptual frameworks
 - Synthesize data and information
 - Offer useful visuals
 - Link to extensive national resources
 - Establish benchmarks through the identification of quality criteria and promising practices
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Three Useful Resources

EXAMPLES of the kinds of resources we will identify:

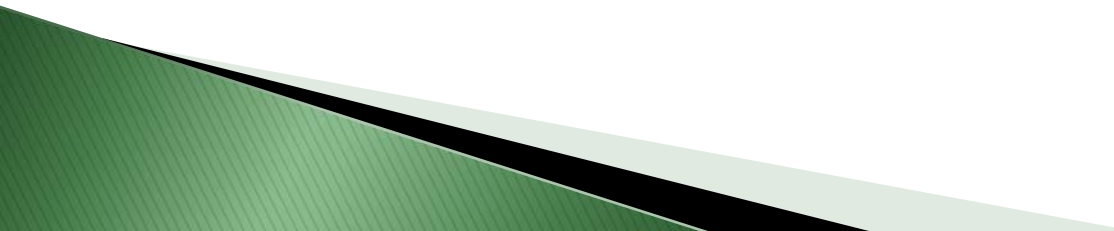
- ❑ O*NET Online Green Occupations
 - ❑ Department of Labor Competency Models
 - Energy
 - Automation
 - Mechatronics
 - Advanced Manufacturing
 - ❑ Center for Energy Workforce Development
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O*NET Online Green Occupations

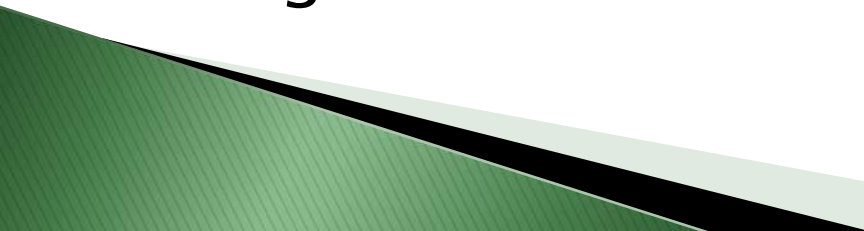
- The Green Economy
 - Renewable Energy Generation
 - Transportation
 - Energy Efficiency
 - Green Construction
 - Agriculture and Forestry
 - Environmental Protection
 - Manufacturing
 - Recycling and Waste Reduction
 - Energy and Carbon Capture and Storage

O*NET Framework: Occupational

The “greening” of occupations refers to the extent to which green activities and technologies increase the demand for existing occupations, shape the work and worker requirements for occupational performance, or generate unique work and worker requirements.



O*NET Categories of Green Jobs

- ❑ Green Increased Demand Occupations:
Demand increased; Work may not change
 - ❑ Green Enhanced Skills Occupations:
Knowledge, skills and tasks change; but demand may or may not go up.
 - ❑ Green New and Emerging Occupations:
Unique work or worker requirements results in generation of a new occupation
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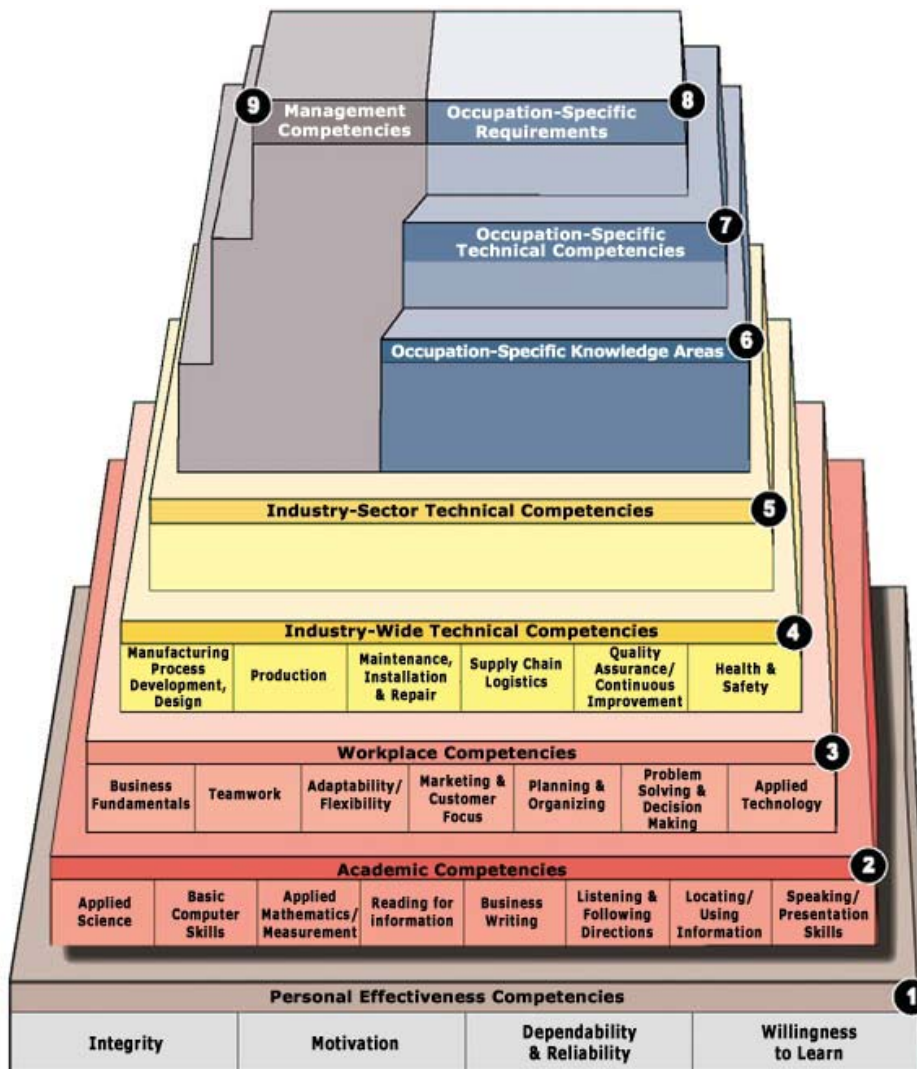
O*NET Resource Capability

- ❑ Extensive Data and Information:
 - Green Sectors
 - Green Occupations
 - Ongoing Activities
 - Online Search
- ❑ Oregon's LMI Grant is committed to using O*NET's Greening of the World of Work Report as an input into its decision making process
- ❑ Link: <http://www.onetcenter.org/green.html>

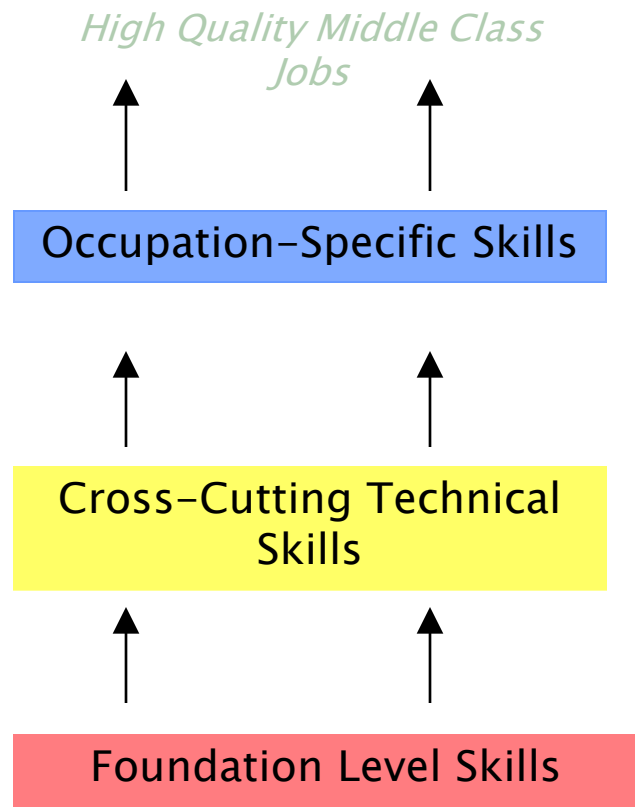
DOL Competency Model

- ❑ Employment and Training Administration (ETA) has collaborated with industry leaders over the past five years to develop Competency Models in high growth industry sectors.
- ❑ Those most relevant to green pathways:
 - Energy
 - Automation
 - Mechatronics
 - Advanced Manufacturing

DOL Advanced Manufacturing Competency Model



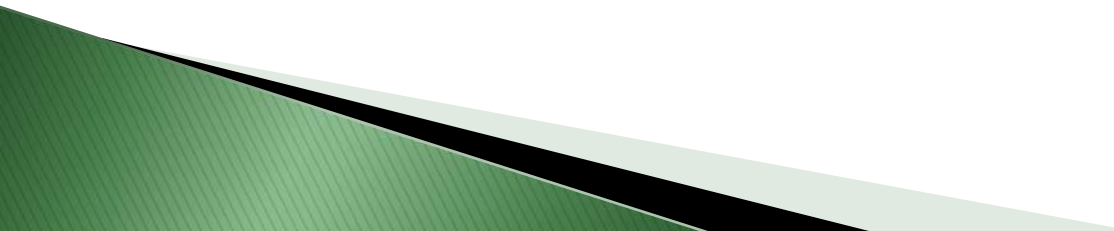
Career Paths - Life Long Learning



DOL Competency Models

- ❑ Each level = a “drawer” full of competencies
- ❑ Not linear – programs can contain elements from various levels
- ❑ Web-based clearinghouse for each model links to:
 - Industry-specific skill standards
 - Competency-based curricula
 - Model training programs
- ❑ Link:
<http://www.careeronestop.org/competencymodel>

Center for Energy Workforce Development

- ❑ Non-profit consortium of electric natural gas and nuclear utilities, their associations, contractors and unions
 - ❑ Purpose: Work together to find solutions to the projected worker shortage: build a skilled worker “pipeline”
 - ❑ Teaming with secondary and post-secondary partners and the workforce system to ensure industry-focused education pathways
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CEWD: Career Pathways

□ Targeted occupations:

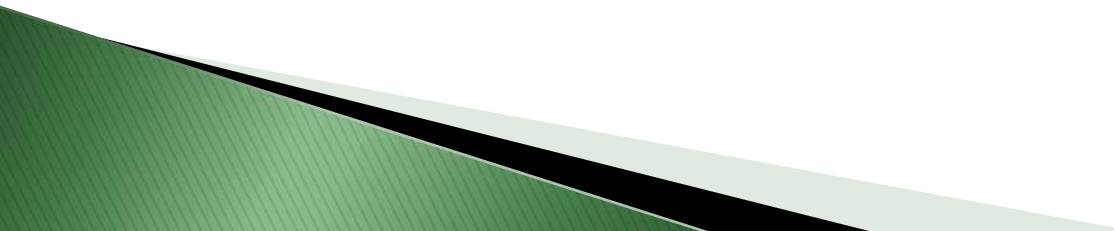
- Maintenance and Repair Workers
- Line Installation and Maintenance Workers
- Pipefitters and Pipelayers
- Powerplant Operators
- Nuclear Plant Operators
- Engineers

□ Links:

- <http://www.cewd.org/documents/pathwayswhitepaper.pdf>
- <http://getintoenergy.com>

CEWD Resources

Resources include:

- ❑ Get Into Energy Pathways
 - ❑ Greening of the Industry
 - ❑ Energy STEM Coalition
 - ❑ Energy Competency Model and Visual
 - ❑ Smart Grid Workforce Training and Development
 - ❑ Links to federal funding/grant opportunities
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Questions? Recommendations?

- ❑ Reactions to what you heard today?
 - ❑ What do you think of the occupations that have been proposed for the development of career pathways? Any other ideas?
 - ❑ What products would be most useful to you as a result of this project?
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