



POWER UP!

*Preparing Florida's Students
for Tomorrow's Economy*

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Florida Energy Workforce Consortium





Florida Energy Workforce Consortium

- Formed in 2006 to develop solutions to meet the current and future workforce needs of Florida's energy industry
- Comprised of energy industry, construction, preK – 12 and post-secondary education, and workforce representatives
- *Compete for a talent puddle or work together to build a talent pool?*

The New Economic Development Reality

- A skilled workforce is the TOP business competitiveness issue.
- As layers of middle management have been eliminated, these workplace skills are increasingly required of all employees:
 - Critical thinking
 - Problem-solving
 - Communication skills
 - Teamwork and Self-direction
 - Global, civic, financial, economic & entrepreneurial literacy

**INNOVATIVE and
CREATIVE
thinking!**

Creating the Next Generation Standards for Career & Technical Education Programs is Important to Florida's

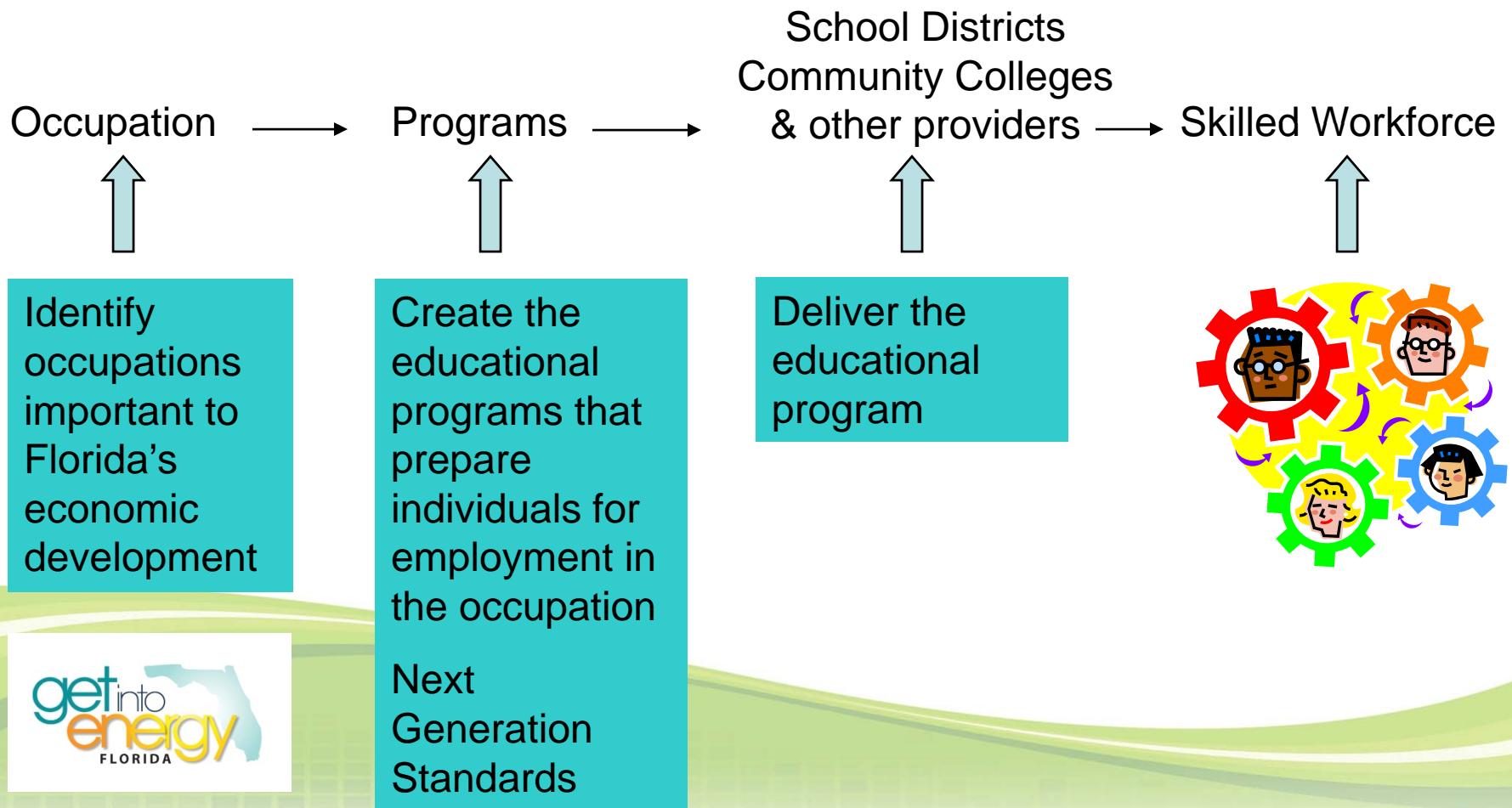


- Economic Development
 - #1 issue identified by business/industry seeking to relocate or expand their business in Florida:
Is the skilled workforce or “talent” available
 - Ensuring that Florida's career and technical education program standards are aligned with the needs of business and industry is a major component
- Citizens
 - Seeking educational opportunities that will prepare them for high-skill, high-wage, high-demand occupations



Source: “Creating the Next Generation Standards for Career & Technical Education”
Florida Department of Education, Department of Workforce Education

In order to ensure that Florida has the skilled workforce to “grow” the economy:





So What Is Our Need?

- A qualified, diverse workforce – for us and our contractors
- Various career entry points with various educational attainments
- Pipeline of students
- Core values



Top Occupations of Concern

- Line Installers and Repairers
- Plumbers, Pipefitters & Steamfitters
- Welders
- Maintenance and Repair Workers
- Electricians
- Engineering Technicians
- Engineers (electrical, mechanical, chemical, civil...)
- Instrumentation & Control Technicians
- Power Plant Operators



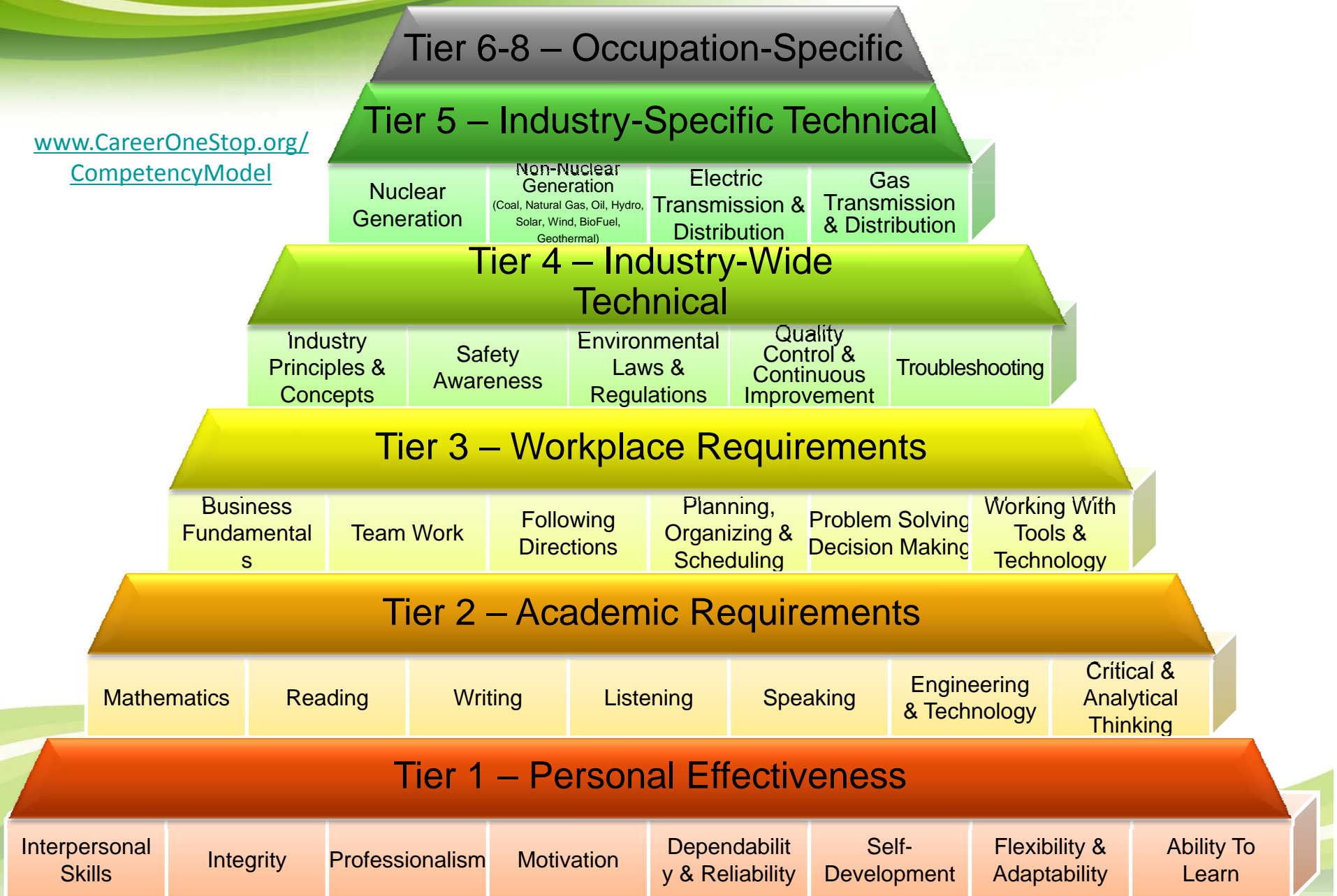
So How Do We Get There?

- PARTNER and COLLABORATE!
- Work locally, regionally, at state, and at national levels to brand our industry careers and create talent pipeline programs
- Focus on key areas:
 - State & National Outreach
 - Career Awareness
 - Policy & Education
 - Untapped Labor Sources
 - Funding & Resources



Energy Competency Model

[www.CareerOneStop.org/
CompetencyModel](http://www.CareerOneStop.org/CompetencyModel)





Policy and Education

- Partnered with Florida Department of Education to gain approval for the addition of an Energy Industry Cluster - ***FIRST IN NATION!***
- Partnered with FDOE to develop energy curriculum framework for five (5) courses:
 - Energy Foundations
 - Introduction to Alternative Energy
 - Power Generation Technician
 - Power Distribution Technician
 - Solar Energy Technician



Working Groups

[Agriculture, Food, and Natural Resources](#)

[Architecture and Construction](#)

[Arts, Audio\Video Technology, Communication](#)

[Business, Management, and Administration](#)

[Education & Training](#)

[ENERGY - NEW](#)

[Financial Services](#)

[Government and Public Administration](#)

[Health Science](#)

[Hospitality and Tourism](#)

[Human Services](#)

[Information Technology](#)

[Law, Public Safety, and Security](#)

[Manufacturing](#)

[Marketing, Sales, and Services](#)

[Transportation, Distribution and Logistics](#)





Career Cluster

Working Group* Representation

- Business/Industry
- Professional/Trade Association(s) representing business and industry
- Labor
- Banner Centers
- Local/Regional Economic Development Organization
- Regulatory Agency(s)
- Secondary Sector
- Postsecondary School District Sector
- Community College Sector
- DWE Cluster State Supervisor (staff)



* Each working group is chaired by a business/industry representative.



Role of the Energy Working Group

- Overall Goal
 - To ensure that the occupations included in the specific career cluster are aligned with the needs of Florida's business and industry
- Specific Tasks include
 - Identify the energy occupations that are critical to Florida's economic development
 - Develop a 3-year program of work to ensure career & technical education occupational standards are relevant
 - Determine/approve
 - Strategies for standards development/revision
 - Timeline
 - Participants



Manage the process



Energy Career Academies

- Have 22 in Florida, including our Gulf Power Academy at West Florida High School in Pensacola (2001)
- Many utilize NCCER Electrical curriculum, resulting in industry-recognized and valued credentials
- Most offer articulation, energy industry pre-employment testing, and local energy company engagement
- Will pilot the new energy courses at Gulf Power Academy and Lakeland Electric Power Academy (first course January 2011) at a minimum



Next Steps for Policy & Education

- Develop curriculum materials for Energy Courses
- Create of Florida Energy Teachers Network – will add teacher “toolkit” to Get Into Energy Florida web site
 - Complete and publish compilation of readily available resources for K-12 teachers to use to integrate energy concepts into the math, science and reading curriculums
 - Develop incentive program for educators to use the new curriculum frameworks and materials
 - Develop a FEWC teacher externship program for CTE, Science and Math teachers
- Replicate energy career academies





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