

**Provide Consulting Services
To The
American Wind Energy Association
Educational Working Group**



TPC Training Systems
The Industrial Skills Training Specialists



A division of Telemedia, Inc.

since 1999

Identify:

- Wind Turbine Generation (WTG) Technician training programs currently provided by community colleges, technical schools, or other training groups as well as programs planned or currently under development.
- Identify Wind energy related programs offered by Colleges and Universities (engineering, meteorological, design, management, etc.)



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Identify:

- Skill sets educational institutions are expected to teach future wind turbine technicians to answer the current and future needs of the wind industry
 - Recommended courses and topics
 - Recommended training techniques
- Courses/topics for Modular “Just In Time”, one year, and two year programs
- Long term Wind Energy industry workforce needs and their relationships to Colleges and Universities



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Identify:

- Current K-12 Wind Energy outreach and awareness programs
- Additional programs that are currently active as well as programs planned or currently under development



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To obtain needed information, TPC will

- Develop and administer surveys based on the existing AWEA educational institution survey as well as additional industrial and AWEA input.
 - Initial Screening Survey and discussion at this symposium
 - Targeted surveys (Business, Education, Training) administered via phone/computer and via web



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To obtain needed information, TPC will

- Identify potential Wind Energy industry and educational experts (Telephone or WEB)
- Identify survey topics and questions based on industrial and AWEA input
- Develop survey questions
 - Evaluate and use existing AWEA survey questions
 - Develop additional survey questions based on AWEA, educational, and industry input



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To obtain needed information, TPC will

- Identify survey participants (industry, colleges, universities, community colleges, technical schools, etc.)
- Administer Targeted Surveys
 - Telephone using GoToMeeting™ support
 - WEB based
- Analyze survey results
- Catalog curriculum from identified training programs.
 - TPC will analyze identified curriculum to identify common course/topics as well as unique courses topics.
- Develop a database identifying key parameters of WTG Tech Training programs
- Compare Educational offerings to Industry needs



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AWEA Educational/Industrial Surveys:

- Targeting Surveys being administered during this meeting.
- One on one interviews with educational/industrial “experts”



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Project Outcomes/Deliverables

- Develop a final report and presentation based on institutional and industrial surveys. The final report will:
 - Identify industry members currently involved in any outreach with K-12 and what message they feel is important to be shared with the K-12 audience
 - Catalog AWEA Business Member recommended WTG Technician skill sets for 1 and 2 yr degree programs, as well as modular training programs (directed quick courses).



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Project Outcomes/Deliverables

- Identify key parameters of instructional programs
 - Typical facilities/equipment
 - Recommended facilities/equipment
 - Do institutions own their own turbines, use others, use lab or simulators, etc.?
 - How training equipment obtained
 - How programs are funded and/or maintained
 - How curriculum/courses identified/selected



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Project Outcomes/Deliverables

- Identify Wind Energy courses common across all or most institutions, as well as courses unique to individual institutions.
- Evaluate the fit between existing instructional curriculum and industry needs.
 - This will give training institutions an idea of worthwhile versus nice to know training topics and allow them to develop modular programs for quick delivery.



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How are we going to use the Survey Results

- Let industry understand educational needs.
- Let educational/training institutions understand industry needs.
- Is training meeting industries needs?
- Is training effort being properly directed to support industry short term and long term?
- How can industry better support educational efforts.
- How can training institutions gain credibility with industry.
- What problems are being encountered and how are they being resolved?



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Path Forward

- Organize an Education Meeting to be hosted by AWEA bringing together tech schools/community colleges and industry professionals to discuss progress
- Create a “toolbox” to educate community colleges/technical schools on:
 - Developing a WTG technician training program from scratch
 - Researching available grants
 - Transferring/Updating/Modifying existing programs to satisfy Industry needs



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Path Forward

- Create a “toolbox” that schools, individuals, and corporations can use to develop and administer outreach and awareness programs to K-12 students



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- Next month
 - Targeted Surveys and follow-up
- Next Year
 - Post Survey Summary
 - Discuss Survey Summary
 - Set up Educational Review Committee
 - Announce Educational Meeting 1st quarter 2009
 - Schedule Educational Meeting for 2nd quarter 2009
- Following Years



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Thank You:

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