

Strategic Projects Updates

GROW Team

Ron Graber

Key Deliverables



- Determine the value of a 17th career cluster and develop a multi-year plan to implement if appropriate
- Offer technical colleges support from industry experts in the review and alignment of curriculums to business needs/objectives
- Develop a mobile learning lab in 2020

Status Update



- Determine the value of a 17th career cluster and develop a multi-year plan to implement if appropriate
 - Goal #1 is on hold to allow Career Pathways to progress
[EDUCATE Team]

Status Update



- Offer technical colleges support from industry experts in the review and alignment of curriculums to business needs/objectives
 - NWTC has been awarded the National Science Foundation Grant for a Utility and Energy coordination network.
 - NWTC needs to resume campus operations before being able to determine a path forward with the grant. [Oct 2020]

Status Update



- Develop a mobile learning lab in 2020
 - Research the cost/requirements to create a mobile learning lab to support the education and outreach initiatives.
 - Contact the MN Consortium to get specifications and costs associated with their trailer
 - Received pictures, input, specifications, and costs to build. Need to determine logistical concerns; storage, maintenance, transporting, training resource, etc

Status Update



- Develop a mobile learning lab in 2020
 - Research the cost/requirements to create a mobile learning lab to support the education and outreach initiatives.
 - Determine objective and application for the trailer
 - The objective of the trailer/van will be to showcase the daily work of line and gas technicians. Previous emphasis was focused on the energy industry.
 - Develop specific demonstrations and associated equipment/materials needs. Determine space requirements.
 - Potential demos and equipment list are being developed [Aug 2020]

Strategic Projects Updates

OUTREACH Team

Matt Flanigan

Key Deliverables



- Develop a brochure that can be utilized by all WEWC members to showcase five career pathways
- Development of a video showcasing career pathways

Status Update



- Gather existing print materials that support the WEWC mission
 - Utilizing materials from the CEWD website and materials currently used by WPS, the Team will be identifying how best to use
 - Use the materials to focus of five career pathways
 - Lineworker
 - Utility Tech
 - Plant Operator
 - Gas Tech
 - Engineer

Status Update



- Gather existing print materials, continued
 - Develop materials that will enhance the work and message developed by the Educate Team

Status Update



- Develop a videos showcasing career pathways
 - First steps have been identified, but due to the social distancing and travel restrictions in place at this time, this Deliverable will be delayed until 2021

Strategic Projects Updates

EDUCATE Team

Robin Kroyer-Kubicek

Annette Krutz

Jennifer Buchanan

Key Deliverables



- **Create a Wisconsin Career Pathway for Energy**
- Develop resources and advertising material for classroom education & career exposure
- Develop an externship model sizable for utilities to educate teachers/counselors

Robin Kroyer-Kubicek

Every Student Future Ready

Wednesday, July 15, 2020

Robin Kroyer-Kubicek, DPI - Career Pathways



Regional Career Pathways



**“Ready-Made ACP PLAN” in
High Skill, High Demand industries!**

**LMI must demonstrate demand all
along the career ladder*

ALL Wisconsin high school students will be able TO:

- Access and complete quality, state-endorsed career pathways
- That lead to careers in high demand industries
- Through support from regional employers and CESA K12 partnerships

Regional Career Pathways- *Definition*

State Pathway Outline

- A collection of 5 required high school components,
- Aligned to employer K12 educational building blocks,
- Acting as a “ready made ACP Plan,”
- That transitions seamlessly into all post HS paths (work, military, training, apprenticeship, technical college, university)

Required Components

*HS Sequence of Courses **PLUS 3 out of 4**

- Dual Credit college course
- IRC (Industry Recognized Credential)
- WBL (Work-Based Learning experience)
- CTSO (CTE Student Organization- SkillsUSA)



Building the State Pathway Outline

The State Pathway Outline Provides:

- **Career Ladder**
 - Established by employers from around the state
- **Skill Sets** for class curriculum
- General **Post-Secondary** Options
 - Military options, Registered Apprenticeships
 - College
- Industry Recognized **Credentials** for HS (*OSHA, First Aid, CDL, Others?*)
- State Certified **Work-based Learning** options (*YA*)
- Applicable CTSOs (*SkillsUSA*)



Energy Pathway Meeting

Virtual- [MS Teams Meeting](#)

+1 608-620-9781 Conference ID: 610 613 033#



Thursday July 30, 2020 9-11 am

Objectives:

- Overview of Regional Career Pathways (RCP) and connections to other K12 career readiness efforts
- Verify Career Ladder(s), Skills Sets, & Certifications needed in Energy-related occupations

Outcomes:

- Identification of career ladders in high demand, high skills careers in Energy
- Confirm required or desired entry level certifications &/or training accessible to high school students
- Define entry level skills sets and competencies for classroom lesson development

Adopting Regionally

STATE- *Employers*

- Career Ladder
- IRCs
- WBL
- Skills ID

REGIONAL- *Collaborative*

Vet State Outline w/regional EMPs

ID HSs to offer

ID related regional extra programming

ID IHE related programs

ID dual credit & AP scores from ALL IHEs in region

Verify dual credit COUNTS in IHE program

LOCAL- *School*

ID minimum 3 related courses that align to EMP defined skills

Fill in IRC, WBL, Dual Credit from regional list

Region reviews & approves



For More Information

ACP:

- <https://dpi.wi.gov/acp>

Xello:

- <http://go.xello.world/wisconsin>

Inspire Wisconsin

- <https://www.inspirewisconsin.org/>

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Key Deliverables



- Create a Wisconsin Career Pathway for Energy
- **Develop resources and advertising material for classroom education & career exposure**
- Develop an externship model sizable for utilities to educate teachers/counselors

Annette Krutz

Status Update

Classroom Education & Career Exposure Material



QR Code

Status Update

Classroom Education & Career Exposure Material



Job Title: Designer

Areas of opportunity:
Design Specialist, Lead Design Specialist, Protection Engineer, Pricing Specialist, Joint Use Technician, Substation Technician, Street Lighting Technician, Steam Technician

Responsibilities:
Develop, design, and manage customer gas and electric projects. Calculate energy service pricing. Manage municipal permits and interactions. Conduct field visits while interacting with customers. Specify equipment needed to construct reliable energy distribution system. Manage environmental impacts of proposed projects.

Education:
High School Diploma, Rufus King High School
Associates in Civil Engineering Technology, Milwaukee Area Technical College
Journeyman Designer Technician – Gas & Electric

Wage range opportunities:
\$24/hr - \$51/hr

“Two days are never the same. Today I might design a new mall. Tomorrow it might be a nice villa on the lake and next week maybe my favorite restaurant. I’m helping design my city. That never gets old.”

Job Title: Laborer

Areas of opportunity (exp; utility, contractor, government, etc.):
Contractor

Responsibilities:
Works as part of a team to install underground gas/electric pipes or fiberoptic cables. Duties include unloading materials, digging trenches, assisting with configuring and assembling pipe/cable, and restoration of the area.

Education:
High School Diploma required
Associates Degree or Technical Diploma focusing on Utilities
Construction preferred

Wage range opportunities:
Union Scale – Minimum \$24.29 per hour

“Multiple generations of my family have been owners/foreman of a business in the telephone utility industry. I had interests in the gas industry and pursued that career through a technical degree.”
Cory-InterCon Laborer

Key Deliverables



- Create a Wisconsin Career Pathway for Energy
- Develop resources and advertising material for classroom education & career exposure
- Develop an externship model sizable for utilities to educate teachers/counselors

Jennifer Buchanan

Status Update

Educator/Student Externship Model



Activity	Description	Age Group	Company
Bucket Truck Ride	1 Student/Educator, 1 Field EE up 60 ft	H.S.	We Energies
Excavators	1 Student/Educator, 1 Field EE. Student operates excavator with EE's guidance. Picking up dirt, creating piles	H.S.	We Energies
Climbing Station	Group of students/educators, 2 EE. One employee climbs pole, one employee answers students questions and explains pole climbing demo. Students gear up (belt w/some tools, PPE, etc.)	H.S.	We Energies
Underground	Group of students/educators, 2 EE. Demonstration of secondary cable splicing in cable pit. Students gain experience with crimpers, cutters and press.	H.S.	We Energies
Materials/Tools Review	Group of students/educators, 1-2 EE. Discussion of materials utilized by field employees. Opportunity to see/touch/pick up materials/tools in the garage.	H.S.	We Energies
Electric High Line Demonstration Box	Group of Students/educators, 1-EE. Employee demonstrates the power of electricity and discusses important electrical safety. Visual only for students.	H.S.	We Energies

Activity	Description	Age Group	Company
Gas Fire	Group of students/educators. 3 EE. Demonstration of how to safely extinguish a gas fire (live), fire suits worn by EE's, can be tried on by students/educators. Can coordinate activity with Emergency Response Teams.	H.S.	We Energies
Gas Leak	Group of students/educators. 2 EE. Staged leak at meter set, odorant discussion had w/smell, gas leak detector (sensit) to assist in locating leak- students and educators can utilize.	H.S.	We Energies
Pipe Coiling	Group of students/educators. 1/2 EE. Rolling of pipe; hands on experience with material.	H.S.	We Energies
Excavators	1 Student/Educator, 1 EE. Student operates excavator with EE's guidance. Picking up dirt, creating piles	H.S.	We Energies
Gas House Demonstration	Group of students/educators. 1/2 EE. Demonstration of what occurs when there is a gas leak in a house (different levels) and a source of ignition.	H.S.	We Energies
Pipe Wrenching	Group of students/educators. 1/2 EE. Hands on experience with wrenches/materials.	H.S.	We Energies

Status Update

Educator/Student Externship Model



Activity	Description	Age Group	Company
Tour	Powerpoint presentation and walking tour up to a turbine	High School age and older	Alliant Energy
VR Tour	3 minute VR tour of a wind turbine. Views from the ground, inside, and on top of the turbine.	All ages	Alliant Energy

Sample Agenda

- Welcome/Safety Share/Introductions
- Company Overview
- Careers in Energy
- Youth Programs
- Lunch
- Ground Rules/Safety
- Stretch and Flex
- Hands-On/Demonstration Stations
- Q&A
- Closing

Strategic Projects Updates

Structure & Support Team

Joan Turba

BJ Rauckman

Key Deliverables



- Capture Updates for WEWC Supply and Demand Stats
- Provide Consortia members better insight into content and benefits of available WEWC and CEWD websites
- Develop benefits and guidance document for new members on WEWC website

Status Update



- Capture Updates for WEWC Supply and Demand Stats
 - CEWD has provided 2019 critical job survey results for Wisconsin
 - Supply numbers for Wisconsin Technical College have been updated from 2019 and employer survey responses involving new graduate hires are available
 - The results from both of these efforts will be presented at next WEWC Consortia Meeting in July, 2020
 - Should discuss consideration of another demand survey for Wisconsin major utilities

Status Update



- Provide Consortia members better insight into content and benefits of available WEWC and CEWD websites
 - To be covered in future WEWC Consortia Meeting as time permits

Status Update



- Develop benefits and guidance document for new members on WEWC website
 - Work closely with Morgan Data to get website revised
 - Possibly to model similarly to CEWD website page

Project Team Afternoon Sessions Closing

Ron Graber

Project Team Objectives



1. Review 2020 Goals and Action Plans
2. Set Q3 & Q4 Short Term Goals
3. Decide on Action Items and Responsible Parties Related to Goals
4. Set Next Meeting Date/Time
5. Prepare Summary to Communicate to Consortium