Hello,
Changes to CPR Guidelines

- Removed “Look, Listen and Feel”
- Check response and breathing simultaneously
- ABC to CAB

New Guidelines

1. Make sure scene is safe
2. Check for a response
3. Call 911
4. Begin CPR
   i. (30) compressions + (2) breaths
   ii. Repeat until trained help arrives
<table>
<thead>
<tr>
<th>Category</th>
<th>Data</th>
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</thead>
<tbody>
<tr>
<td>Employees</td>
<td>700</td>
</tr>
<tr>
<td>Employees in Engineering</td>
<td>70</td>
</tr>
<tr>
<td>Employees in Management</td>
<td>16</td>
</tr>
<tr>
<td>Full-Time Field Supervision</td>
<td>64</td>
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<tr>
<td>Years in Business</td>
<td>45+</td>
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<tr>
<td>Revenue Past 5 Years</td>
<td>$1.3 Billion</td>
</tr>
<tr>
<td>Bonding Capacity</td>
<td>$600mil</td>
</tr>
<tr>
<td>Recordable Rate</td>
<td>0.69</td>
</tr>
</tbody>
</table>

**The Top 400 Contractors**

- #251 in Nation
- #19 in Power
- #8 in Air Pollution
- #47 in Environmental
We are:

Michael J. Soller P.E.
CPC – Director Business Development

Alan Dale – Project Manager

Crystal Bolender – Viewpoint Coordinator

Doug Stout – Sr. Estimator
WHAT DO I DO?
Who am I @ Bowen

- Role with the company
- Educational Background
- How did you decide to work for Bowen
- What are the challenges & rewards of your role
- What opportunities are available in your role
- What advice would you give a student who wanted to get into the energy business
Engineering or Engineering Technology?

Many paths to follow
Engineers

- Engineers are trained to be very focused on one area.
  - Electrical
  - Mechanical
  - Biomedical
  - Chemical, etc.
- They strive to understand why something occurs.
- An engineering education teaches the theoretical foundation of one specific area.
Engineers apply:
- creativity,
- innovation,
- problem-solving,
- mathematics,
- analytical thinking
to whatever project or process they are designing or improving.
Advantages of an Engineering Degree

• Greater opportunity for advancement over associate’s degree
• Easier to become professionally licensed
• Great salary right out of school
• Education is very broad
• Education can be a launching pad to other professions
• Consistently excellent job opportunities at the bachelor’s degree level
• Engineers often escalate to management positions
Engineering Technologists

- Fields and responsibilities overlap
- ET focuses on application of STEM principles
- Experts at applying
  - engineering principles
  - technology to solve problems
- Looks at the big picture and practical application of a problem
Sometimes they work with engineers

- An engineer may design a product to solve a problem
- The technologist may develop the process to create that product quickly, inexpensively, and with high quality.
Advantages of a Bachelor’s Level ET Degree

Compared to an associate’s degree

• Consistently excellent job opportunities worldwide
• Less engineering theory and more applications-based education
• You will be able to ‘hit the ground running’ in your career
• Work can be challenging and rewarding
• May be hired as an engineer and compete with students with engineering degrees for jobs
• Employers appreciate the real-world problem-solving aspects of your education
• Numerous areas of study available
Disadvantages of an Bachelor’s ET Degree

Compared to an associate’s degree

• More time in school (higher cost for college)
• Can be challenging to move into engineering fields or degree programs
• The work can be stressful
• May result in inability to become a licensed engineer in some states
• Job opportunities may be limited
• May not receive comparable recognition and/or compensation
Engineering vs. Engineering Technology
Industry’s Perception

- Industry sees value in both engineering and engineering technology.
- Technologists usually have job titles as engineers.
- There are always exceptions and ETs may not receive comparable recognition and/or compensation.
What Work do I do?

- I am a Civil Engineer
- I lead the design and construction of
  - Water plants
  - Wastewater plant
  - Power plants
What’s the Market Like

- Good Jobs
  - Designers
  - Environmental Investigators
  - Construction Engineers
  - Project Engineers
  - Contract Managers
What are the Challenges

- Creative Solutions
- Manage Money
- Manage People
- Effective Time Usage
What is your Education? Why?

- Bachelor Degree - Civil Engineering
- Masters Degree - Applied Technology
- Professional Engineer
- Certified Constructor

WHY?
- Someone suggested I would be good at it!
- AND I TRIED!
Projects I have work on

- Prisons - Ohio
- Chemical Research Facilities
- Big Box Stores
- Telephone Buildings
- Water/Wastewater Plants
- Power Plants
Jobs under my belt

- MEIJER GROCERY: $520,000,000
- MANSFIELD PRISON: $80,000,000
- CHEMICAL RESEARCH PLANT: $25,000,000
- PATRIOT COAL: $13,000,000
- CONSOL MWTP: $78,000,000
- AEP MOUNTAINEER: $23,000,000
- CHESWICK POWER: $10,000,000
- INDY/CITIZEN'S WATER: $50,000,000
So what do YOU want to know?