2018-2019 National Environmental Health Science and Protection Accreditation Council (EHAC)
Undergraduate Programs Outcome Assessment Report

Compiled by
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I. Introduction:
   This report details analysis of the data provided by former undergraduates of programs seeking reaccreditation during the 2018-2019 academic year and their supervisors.

II. Background:
   EHAC Undergraduate Requirements Section VI. Reporting Obligations of Accredited and Pre-accredited Programs Part D. Program Outcomes Assessment Survey states that:

   “At the time of re-accreditation, the institution shall survey program graduates and employers via the Council’s outcome assessment tool. All graduates since the last accreditation shall be in the pool of those to be surveyed. The completed tools shall be gathered by the institution and forwarded to the Executive Director of the Council six months prior to the annual meeting of the Council. The Council will supply a summary of the information gathered to all accredited programs on an annual basis.

   The purpose of this survey is to determine the adequacy of the accreditation process to the needs of the professional practice of environmental health. The information gathered by an institution through the outcome assessment process will not be used as part of the evaluation review for re-accreditation purposes for a given institution. The Council will use the compiled information from all institutions undergoing re-accreditation to evaluate and consider changes to the requirements of accreditation.”

   The outcome assessment tool consists of two surveys conducted via surveymonkey.com, one for current employees and the other for their supervisors. It is distributed to the reaccreditation candidate Program Directors for distribution to former students. The graduates then provide the survey link to their supervisors for survey completion.

III. Survey Context and Summary
   EHAC’s core mission is to accredit Environmental Health (EH) Programs that provide a scientifically rigorous and practical based education, which prepares graduates to enter the EH field “work force ready” and prepared to problem solve using critical thinking skills acquired during their university education. Toward this end, EHAC is continuously identifying strengths and weaknesses related to graduates successfully entering and progressing in the EH field of their choice. Survey responses from both graduates employed in the EH field (employees) and their supervisors assist EHAC in assessing and adapting Undergraduate Requirements and Graduate Guidelines for accreditation to the ever-evolving arena of Environmental Health.

   Questions for both employees and their supervisors focus on assessing the adequacy and effectiveness of an employee’s knowledge, skills and abilities related to their EH job, with employees conducting self-assessments and supervisors evaluating their current employees.
The following report provides a graphic representation of the results of the surveys with employees presented first, followed by their supervisors.

Table 1 presents the six EHAC accredited undergraduate programs reaccredited in 2019, the number of employee responses and their dates of graduation, and supervisor responses. There were 45 total undergraduate respondents to the survey. Forty-three of these respondents fully completed the surveys and those 43 are currently employed in EH related professions and are the focus of this report. Thirteen supervisors responded to the survey.

Table 1. 2018-2019 Outcome Assessment Respondents

<table>
<thead>
<tr>
<th>Re-accreditation Applicants</th>
<th>Next Accreditation Review</th>
<th>Initial Accreditation Year</th>
<th>Graduating Classes Reflected</th>
<th>Number of Employee Respondents</th>
<th>Number of Supervisor Respondents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Illinois State University</td>
<td>2025</td>
<td>1977</td>
<td></td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Indiana University - IUPUI</td>
<td>2025</td>
<td>2006</td>
<td>2013, 2014, 2016</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td><strong>Totals</strong></td>
<td></td>
<td></td>
<td></td>
<td><strong>45</strong></td>
<td><strong>13</strong></td>
</tr>
<tr>
<td>Respondents Employed in Environmental Health Field</td>
<td></td>
<td></td>
<td></td>
<td>43</td>
<td>13</td>
</tr>
</tbody>
</table>

IV. Employee Survey Results

A. Employee Skills
Listed below are core competencies in EH programs. Respondents were asked to choose the option that most closely describes their skill level.
Charts 1-3 present employee self-assessments of general job skills, interpersonal office skills and skills related to interpreting data. Overwhelmingly, employees rated themselves either very or most proficient among these categories. A few employees reported challenges in the areas of:

- Speaking and Writing Skills;
- Leadership Skills;
- Time Management;
- Project Planning and Management;
- Conducting a Statistical Analysis and Interpreting Data; and

Employees rated themselves most highly in the EH Specialty areas of Risk Management, Assessment and Communication (Chart 4), while a small number reported lack of proficiency in epidemiology, toxicology and risk management.
Chart 2.

Employee Assessment of Interpersonal Office Skills

- Working in a team setting
- Leadership skills
- Organizing workflow
- Time management
- Project planning and management


Chart 3.

Employee Assessment of Ability to Interpret Data

- Identify reliable and relevant information
- Drawing appropriate conclusions
- Choosing and defending appropriate course of action
- Conducting a statistical analysis and interpreting data
- Applying research methods for problem solving

B. Course Relevance

Employee respondents were asked to answer yes or no if their job requires knowledge in the following areas (Chart 5). The EH specialty areas cited as necessary by at least 50% of employees included:

- All Hazard Preparedness;
- Built Environment;
- Disease Prevention (e.g. vectorborne, zoonotic, etc.);
- Disease Prevention;
- Environmental Health Planning;
- Food Protection;
- Injury Prevention;
- Occupational Health and Safety;
- Recreational Environmental Health;
- Risk Analysis;
- Solid and Hazardous Material and Waste Management; and
- Water and Wastewater Treatment.

Knowledge was less necessary in the following EH Specialty areas:

- Air Quality Control;
- Geographic Information Systems;
• Global Environmental Health;
• Hydrogeology;
• Institutional Health;
• Occupational Health and Safety;
• Radiation Health;
• Soils; and
• Vector Control.
Chart 5.

Job Requires Knowledge of the Following EH Specialty Areas - Employee Assessment

- Water and Waste Water
- Vector Control
- Solid, HAZMAT and Waste Management
- Soils
- Risk Analysis
- Recreational Environmental Health
- Radiation Health
- Occupational Health and Safety
- Institutional Health
- Injury Prevention
- Hydrology
- Global Environmental Health
- Geographical Information Systems (GIS)
- Food Protection
- Environmental Health Planning
- Disease Prevention
- Disease Prevention (e.g. vectorborne, zoonotic, etc.)
- Built Environment
- All-hazard Preparedness
- Air Quality Control

[Bar chart showing the percentage of employees who require knowledge of each specialty area, with categories ranging from Water and Waste Water to Air Quality Control, indicating varying levels of requirement.]
C. Specialty Area Program Preparation

Employee respondents were asked to answer yes or no if they were well-prepared in the following EH specialty areas by their undergraduate programs. Chart 6 presents responses with more than 50% of employees reporting they were well prepared for more than half of the EH specialty areas provided in the survey. Specialty areas scoring the highest in graduate preparedness include:

- Disease Prevention (e.g. vectorborne, zoonotic, etc.);
- Disease Prevention;
- Environmental Health Planning;
- Food Protection;
- Injury Prevention;
- Occupational Health and Safety
- Recreational Environmental Health;
- Risk Analysis;
- Solid and HAZMAT Waste Management;
- Vector Control; and
- Water and Wastewater Treatment.

Specialty EH areas showing the highest percent of employees that were least prepared include:

- Geographical Information Systems (GIS);
- Hydrogeology;
- Global Environmental Health; and
- Radiation Health.

These EH specialty areas coincide with those knowledge areas reportedly not required by the employee’s job.
Chart 6.

Employee Assessment of Preparedness for EH Specialty Areas

- Water and Waste Water
- Vector Control
- Solid and HAZMAT and Waste Management
- Soils
- Risk Analysis
- Recreational Environmental Health
- Radiation Health
- Occupational Health and Safety
- Institutional Health
- Injury Prevention
- Hygiene
- Global Environmental Health
- Geographical Information Systems (GIS)
- Food Protection
- Environmental Health Planning
- Disease Prevention
- Disease Prevention (e.g., vectorborne, zoonotic, etc.)
- Built Environment
- All-hazard Preparedness
- Air Quality Control

[Chart showing employee assessment of preparedness across various specialty areas]
D. Employee Workplace Data:

Chart 7 presents job sectors for employees of the six schools surveyed. As previously mentioned, 43 respondents are currently employed in the Environmental Health field. More than 70% of the graduates are employed at local or federal government agencies. The remaining respondents are employed at private companies or corporations, at non-profit organizations or they are teaching.

Chart 8 shows the distribution of those employees who are employed by local, state or the federal government. Just over 50% of respondents work at local or state health departments while less than 10% of employees work at the US Public Health Service and Centers for Disease Control (CDC). The remaining 40% of respondents reported “other” government agencies and these included:

- Certified Unified Program Agency;
- Los Angeles Unified School District;
- State of Wisconsin Department of Agriculture Trade and Consumer Protection;
- City of Houston, Houston Permitting Center;
- Tribal Environmental Department;
- Port Houston Authority; and
- Local Air Quality District.

Chart 9 presents EH areas of employment for respondents. The majority of respondents have found employment within the food protection and solid and Hazardous Waste Management professions.

Approximately thirty percent of employees report making $40 to $50,000 per year as shown in Chart 10, while just over 70% of employee salaries range from less than $20,000 to greater than $70,000 per year.
Chart 7.

**Job Sector Distribution of Undergraduates**

- Local or Federal Govt. Agency: 80.00%
- Private Company or Corp.: 20.00%
- Educational Institution: 10.00%
- Other: 20.00%
- Non Profit Organization: 30.00%
- Consulting Firm: 40.00%
- Self-Employed Consultant: 50.00%

Chart 8.

**Distribution of Undergraduates Employed by Local, State or Federal Government**

- Local or State Health Dept.: 60.00%
- US EPA: 50.00%
- US Public Health Service: 40.00%
- US Indian Health Service: 30.00%
- US CDC: 20.00%
- US FDA: 10.00%
- US ATSDR: Other: 0.00%
Chart 9.

Areas of Employment for Undergraduates

- Solid and HAZMAT Waste...
- Food Protection
- Manufacturing
- Air Quality
- Ag. or Food Production
- Water/Waste Water...
- Remediation
- Resource Extraction

Chart 10.

Salary Range for Undergraduate Employees
E. Employee Data on Continuing Education and Professional Development

Table 2. below details the types of degrees completed by employees after earning an Undergraduate degree in Environmental Health:

<table>
<thead>
<tr>
<th>Number of Graduates that have Completed Post-Baccalaureate Degrees</th>
<th>Types of Degrees Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Master of Science in Health Informatics</td>
</tr>
<tr>
<td></td>
<td>Environmental Policy and Management</td>
</tr>
<tr>
<td></td>
<td>Public Administration</td>
</tr>
<tr>
<td></td>
<td>Radiation Health Physics</td>
</tr>
</tbody>
</table>

F. Professional Recognition

The following were listed as specific professional awards received by 10 respondents (Table 3.):

| Competent Person - Excavation                                       |
| Congressional award for student of distinction                      |
| Registered Environmental Health Specialist (REHS)                   |
| CPR; OSHA 10-hour                                                    |
| ICS-100 ICS-200 ICS-300 IS-700                                     |
| 2015, 2016 Environmentally Friendly Green Award from the Area Director, USPHS |
| Achievement Medal and Staff EHS of the year 2017                    |
| Thurgood Marshall College fund - Fellow, Houston Livestock Show and Rodeo – Scholar, National Science Foundation - Fellow, Texas Academy of Science - Award Recipient |
| 2017 Biowatch Award for Field operations                            |
| Nuclear regulatory commission training, Source retrieval            |

G. Credentials Achieved:

The following were listed as specific credentials earned by 36 respondents (Table 4):

<table>
<thead>
<tr>
<th>Certification Achieved</th>
<th>Number of Graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 HR and 8 HR HAZWOPER</td>
<td>2</td>
</tr>
<tr>
<td>40HR Hazwoper certification</td>
<td>3</td>
</tr>
<tr>
<td>Asbestos Building Inspector. 40-Hour Hazwoper Training Lead Safety R,R,P First Aid Certified</td>
<td>1</td>
</tr>
<tr>
<td>Associate Safety Professional, Certified Safety Professional, Associate in Risk Management</td>
<td>1</td>
</tr>
<tr>
<td>CA Registered Environmental Health Specialist</td>
<td>3</td>
</tr>
<tr>
<td>Professional Organization and Position</td>
<td>Number of Graduates</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Certified Pool Operator</td>
<td>2</td>
</tr>
<tr>
<td>Certified Safety Professional &amp; Associate Safety Professional</td>
<td>1</td>
</tr>
<tr>
<td>CPR/AED/First Aid Certified</td>
<td>2</td>
</tr>
<tr>
<td>EPA Watershed Academy, Natural Shoreline Partnership professional training and certification, MSUE Facilitative Leadership</td>
<td>1</td>
</tr>
<tr>
<td>Food protection, on site sewage treatment and disposal, infection control, and certified pool and spa operator</td>
<td>1</td>
</tr>
<tr>
<td>Foodborne Illness Outbreak Environmental Assessments, 21st Century Diversity and Inclusion</td>
<td>1</td>
</tr>
<tr>
<td>Measurement verification, pesticide use enforcement</td>
<td>1</td>
</tr>
<tr>
<td>Nebraska Asbestos Inspector- Licensed, Certified Method 9 Observer</td>
<td>1</td>
</tr>
<tr>
<td>OSHA 10-hour</td>
<td>1</td>
</tr>
<tr>
<td>OSHA 30 hr</td>
<td>1</td>
</tr>
<tr>
<td>REHS Certified Rabies observer, HACCP Training, FEMA Preparedness training,</td>
<td>1</td>
</tr>
<tr>
<td>Registered Environmental Health Specialist (REHS)</td>
<td>9</td>
</tr>
<tr>
<td>Aquatic Facility Operator, Certified Playground Safety Inspector, ServSafe Food Manager, Instructor and Proctor</td>
<td>1</td>
</tr>
<tr>
<td>Wisconsin Lead Risk Assessor</td>
<td>1</td>
</tr>
<tr>
<td>Registered Sanitarian Certificate</td>
<td>1</td>
</tr>
<tr>
<td>Sustainable Comprehensive Water Management Programs Course (phigenics)</td>
<td>1</td>
</tr>
</tbody>
</table>

**H. Professional Organizations**

Forty-three employee respondents indicated involvement in the professional organizations listed in Table 5. below:

**Table 5. Professional Organizations**

<table>
<thead>
<tr>
<th>Professional Organization and Position (if any)</th>
<th>Number of Graduates</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIH</td>
<td>2</td>
</tr>
<tr>
<td>California Environmental Health Association</td>
<td>5</td>
</tr>
<tr>
<td>California Environmental Health Association (CEHA) - Member and Chapter President</td>
<td>1</td>
</tr>
<tr>
<td>California Environmental Health Association (CEHA) Citrus Chapter - Board Representative</td>
<td>1</td>
</tr>
<tr>
<td>Conference of Radiation Control Program Directors</td>
<td>1</td>
</tr>
<tr>
<td>Florida Environmental Health Association</td>
<td>1</td>
</tr>
<tr>
<td>Galveston Biowatch Team - Lead Field operator</td>
<td>1</td>
</tr>
<tr>
<td>Michigan Environmental Health Association - Executive Board Member</td>
<td>1</td>
</tr>
<tr>
<td>Michigan Environmental Health Association - Member</td>
<td>8</td>
</tr>
<tr>
<td>National Environmental Health Association</td>
<td>10</td>
</tr>
<tr>
<td>Nebraska Environmental Health Association - Former Secretary</td>
<td>1</td>
</tr>
</tbody>
</table>
V. Supervisor Survey Results

Supervisors of graduates from 2019 reaccrediting programs were asked to assess the skills and preparedness of their employees. Thirteen supervisors responded to the survey and their responses are presented below along with information related to their job sector and primary areas of work.

A. Supervisor Employment

Charts 11 and 12 present data related to the area of supervisor employment and therefore showing similar distributions to that of the employee respondents. More than 70% of respondents work for a local or federal government agency (Chart 11). The “other” category included a Tribal Agency supervisor.

Chart 13 also shows data similar to those of employees, with the food protection and solid and hazardous waste management categories at the top of the employment area list. Supervisors heavily used the “other” category for job area descriptions and these areas included public health, education, on-site water supply and wastewater, public swimming pools, recreational licensing and enteric and respiratory illnesses.
Chart 11.

**Job Sector Distribution of Supervisors**

- **Local or Federal Government Agency**
- **Educational Institution (primary/secondary schools, colleges, universities)**
- **Private Company or Corporation**
- **Self Employed**
- **Consulting Firm**

Chart 12.

**Distribution of Supervisors Employed by Local, State or Federal Government**

- **Local or State Health Department**
- **Other Agency**
- **U.S. Public Health Service**
- **Agency for Toxic Substances and Disease Registry**
- **Centers for Disease Control and Prevention (CDC)**
- **U.S. Environmental Protection Agency**
- **U.S. Indian Health Service**
B. Supervisor Rating of Employee Skills

Thirteen supervisors responded to questions regarding the skill levels of employees. Charts 14-16 present supervisor estimates of employee acumen related to job skills, interpersonal skills, skills related to interpreting data, as well as employee proficiency in EH specialty areas.

Supervisors reported high proficiency levels related to IT/Computer skills and technical writing, with public speaking skills showing the lowest proficiency ratings overall (Chart 14).

Interpersonal skills and skills related to interpreting and reporting data were generally rated “somewhat” proficient or higher by supervisors (Charts 15 and 16), with some challenges cited for leadership skills, choosing and defending an appropriate course of action, conducting a statistical analysis and interpreting data, and applying research methods and problem solving.

Where applicable, supervisors reported strong skills in Risk Assessment, Epidemiology, Toxicology and Risk Communication and Management. The most challenging areas for employees, according to supervisors, were Risk Assessment and Risk Communication (Chart 17).
Chart 14.

Supervisor Assessment of Employee Job Skills

Information Technology/Computer Skills
- 1. Not Proficient
- 2. Somewhat Proficient
- 3. Proficient
- 4. Very Proficient
- 5. Most Proficient

Public Speaking
- 1. Not Proficient
- 2. Somewhat Proficient
- 3. Proficient
- 4. Very Proficient
- 5. Most Proficient

Technical Writing
- 1. Not Proficient
- 2. Somewhat Proficient
- 3. Proficient
- 4. Very Proficient
- 5. Most Proficient

Chart 15.

Supervisor Assessment of Employee Interpersonal Related Skills

- 1. Not proficient
- 2. Somewhat proficient
- 3. Proficient
- 4. Very proficient
- 5. Most proficient

Skills:
- Working in a team setting
- Leadership skills
- Organizing workflow
- Time management
- Project planning and management
Chart 16. Supervisor Assessment of Employee Interpretation Skills

Chart 17. Supervisor Assessment of Employee Proficiency in EH Specialty Areas
C. Specialty Area Requirements of Jobs

Supervisors were asked to answer yes or no if the employee’s job requires knowledge in the following core competencies. Chart 18 shows that fifty percent or more supervisors cited the following required knowledge areas for their employees (required knowledge areas also cited by employees are starred):

- All Hazard Preparedness;
- Disease Prevention (e.g. vectorborne, zoonotic, etc.)*;
- Disease Prevention*;
- Environmental Health Planning*;
- Food Protection*;
- Geographic Information Systems (GIS);
- Recreational Environmental Health*;
- Risk Analysis*;
- Vector Control*; and
- Water and Wastewater Treatment*.

Specialty EH areas that supervisors reported as not requiring employee knowledge included (unrequired knowledge areas also cited by employees are starred):

- Air Quality Control*;
- All Hazards Preparedness;
- Built Environment;
- Geographical Information Systems (GIS)*;
- Global Environmental Health*;
- Hydrogeology*;
- Injury Prevention;
- Institutional Health*;
- Occupational health and Safety;
- Radiation Health*;
- Soils; and
- Solid and HAZMAT Waste Management.
D. Program Preparation

Supervisors were asked to answer yes or no if employees were well-prepared in the following specialty areas. All supervisors rated employees as “somewhat” or “well prepared”. EH specialty areas scoring the highest in preparedness include (areas of a high level of preparedness coinciding with employee job preparation rankings are starred):

- Disease Prevention (e.g. vectorborne, zoonotic, etc.)*;
- Disease Prevention*;
- Environmental Health Planning*;
- Food Protection*;
- Geographic Information Systems;
- Injury Prevention*;
- Occupational Health and Safety*;
- Recreational Environmental Health*; and

Chart 18.

**Does Employees's Job Require Knowledge in the following EH Specialty Areas?**

- Water and Waste Water
- Vector Control
- Solid & HAZMAT Waste Mangt.
- Soils
- Risk Analysis
- Recreational EH
- Radiation Health
- Occupational Health and Safety
- Institutional Health
- Injury Prevention
- Hydrogeology
- Global Environmental Health
- Global Information Systems...
- Food Protection
- Environmental Health Planning
- Disease Prevention
- Disease Prevention (e.g....)
- Built Environment
- All-hazard Preparedness
- Air Quality Control
• Risk Analysis*.

Specialty EH areas for which the highest percent of employees that were least prepared according to supervisors included (areas of less preparedness coinciding with employee preparation rankings are starred)

• Air Quality Control;
• All-hazard Preparedness;
• Built Environment’
• Global Environmental Health*;
• Hydrogeology*;
• Institutional Health;
• Occupational Health and Safety;
• Radiation Health*;
• Soils;
• Solid and HAZMAT Waste Management; and
• Vector Control; and
• Water and Wastewater Treatment.

Like the employer ratings previously discussed, the EH specialty areas where employees were least prepared coincide with those knowledge areas reportedly not required by the employee’s job.
E. Additional Specialty Areas Knowledge Needed

Five of 13 supervisor respondents indicated the following specific “other” specialty areas as necessary for their jobs (Table 6).

Table 6. “Other” Necessary Specialty Areas suggested by Supervisors

<table>
<thead>
<tr>
<th>Specialty Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outreach and education; political and multi-jurisdictional communication; grant management; environmental policy review; organization; etc.</td>
</tr>
<tr>
<td>Human health education topics, and communicable disease that may not relate to the environment.</td>
</tr>
</tbody>
</table>
I believe a glacial geology class would be very beneficial to students entering this particular job in this particular part of the country (Michigan, upper Midwest).

VI. Narrative and Discussion

EHAC accredits EH academic programs in order to create a cadre of educational institutions that produce EH employees who are well prepared academically and have the fundamental and practical skills to successfully enter and thrive in the EH field. EHAC’s primary mission is to enhance the education and training of students in EH science and protection by ensuring that students receive premium quality education and training from an EHAC accredited institution of higher education.

A. EH Specialty Area Preparedness

The aggregation of supervisor and employee assessments regarding preparedness shows employees are graduating with an overall favorable preparedness level for their current jobs (Charts 20 and 21). The majority of all supervisor ratings of employee preparedness fell within the “somewhat” to “well” prepared categories, with similar self-ratings by former students. Highest levels of preparedness were reported by both employees and supervisors for the following specialty areas:

- Built Environment;
- Disease Prevention (e.g. vectorborne, zoonotic, etc.);
- Disease Prevention;
- Injury Prevention;
- Food Protection;
- Environmental Health Planning;
- Global Information Systems (GIS);
- Recreational Environmental Health;
- Risk Analysis;
- Occupational Health and Safety;
- Solid and HAZMAT Waste Management; and
- Wastewater and Water Supply Treatment.

While Supervisor utilized the “somewhat” prepared category more heavily than employees, the two groups found general agreement in the following EH specialty areas (Charts 22 and 23).

- Air Quality Control;
- Global Environmental Health;
- Hydrogeology;
- Institutional Health;
- All-hazard Preparedness;
• Built Environmental;
• Disease Prevention;
• Environmental Health Planning; and
• Radiation Health;
• Soils;
• Solid and HAZMAT Waste Management
• Wastewater and Water Treatment;
• Risk Analysis; and
• Recreational Environmental Health.

Chart 20.
Chart 21.

Employee and Supervisor Assessment of Employee Preparedness in EH Specialty Areas - Well Prepared

- Institutional Health
- Occup. Health and Safety
- Radiation Health
- Recreational EH
- Risk Analysis
- Soils
- Solid/HAZMAT Waste Mangt.
- Vector Control
- Waste Water and Water Supply

Graduate Assessment % Well Prepared
Employee Assessment % Well Prepared

Chart 22.

Employee and Supervisor Assessment of Employee Preparedness in EH Specialty Areas - Somewhat Prepared

- Air Quality Control
- All-hazard Preparedness
- Built Environment
- Disease Prevention
- Disease Prevention (e.g. vectorborne,...)
- Environmental Health Planning
- Food Protection
- Geographical Information Systems (GIS)
- Global Environmental Health
- Hydrogeology
- Injury Prevention
- Institutional Health

Supervisor Assessment % Somewhat Prepared
Employee Assessment % Somewhat Prepared
B. Job Skills Assessments

Chart 24 (Most Proficient) shows similar satisfaction levels of both graduates and supervisors regarding employee skill levels in different EH job skills areas. Again, the majority of employees and supervisors rated job skills at “very” or “most” proficient. Supervisors and employees agreed that preparedness levels were high “most proficient” for:

- Working in a Team Setting;
- Organizing Workflow;
- Project Planning and Management;
- Choosing and Defending Appropriate Course of Action;
- Applying Research Methods and Problem Solving; and
- IT/Computer Skills.

Supervisors and employees found agreement in the following EH specialty areas, which were given a rating of “Very Proficient” (Chart 25):

- IT/Computer Skills;
- Technical Writing;
- Choosing and Defending an Appropriate Course of Action;
- Applying Research Methods and Problem Solving;
• Leadership skills;
• Working in a Team Setting;
• Project Planning and Management; and
• Time Management.
Employee and Supervisor Estimates of Employee Job Skills Proficiency - Most Proficient

- Conducting a Statistical Analysis & Interpreting Data
- Technical Writing
- Public Speaking
- IT/Computer Skills
- Applying Research Methods & Problem Solving
- Choosing & Defending Appropriate Course of Action
- Leadership Skills
- Project Planning & Management
- Organizing Work Flow
- Drawing Appropriate Conclusions
- Identify Reliable & Relevant Information
- Working in a Team Setting
- Time Management
C. Proficiency Levels in EH Specialty Areas

Lastly, employee and supervisor ratings of employee proficiency levels in EH specialty areas found similarities, as well. While 20-40% of supervisors found some of these EH specialty areas inapplicable to their employees, those citing relevancy gave favorable ratings to their employees across the board (Charts 26 and 27).
Chart 26.

Employee and Supervisor Assessment of Employee Proficiency in EH Specialty Areas - Most Proficient

- Risk Communication: 30.00%
- Risk Management: 45.00%
- Toxicology: 25.00%
- Risk Assessment: 25.00%
- Epidemiology: 30.00%

Employee Assessment: Yellow, Supervisor Assessment: Blue, Supervisors - N/A: Green

Chart 27.

Employee and Supervisor Assessment of Employee Proficiency in EH Specialty Areas - Very Proficient

- Toxicology: 20.00%
- Risk Assessment: 30.00%
- Risk Communication: 35.00%
- Epidemiology: 25.00%
- Risk Management: 35.00%

Employee Assessment: Yellow, Supervisor Assessment: Blue, Supervisors - N/A: Green