Environmental Health Graduates’ Work Skills Competencies: Perspectives from the Employers and the Graduates

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Abstract

Introduction: Environmental health is a rapidly evolving field, and professionals working in this field have to deal with increasingly complex environmental and public health concerns. Consequently, their skill development is a key component in ascertaining their abilities to match work requirements to the satisfaction of their employers. Training and education of these professionals requires involvement of the relevant stakeholders to apt their technical skills in preparation of the role to be undertaken. Thus, the universities and other institutions of higher learning, in their efforts to improve graduate output should understand the labor market. Additionally, due to constant transformation and reorganization of strategies and plans by practitioner organizations, employers’ perspective in assessing graduates’ abilities and performance is necessary. Aim: The purpose of this study was to assess the employers’ perspectives on the graduates’ abilities to handle work demands.

Methods: A cross-sectional descriptive study design involving employers and graduates of environmental health program of Moi University using mixed methods was carried out. Pre-tested semi structured paper questionnaires were administered to 45 employers, while online survey was carried out on 227 sampled graduates. In-depth interviews were further subjected to the graduates to corroborate issues raised. Quantitative data analysis was done using statistical package for social scientists (SPSS) version 20 where the data was summarized using frequencies and proportions. Qualitative data was thematically analyzed.

Results: The overall employer assessment of the graduates’ abilities to handle work demands was satisfactory with 18 (46.1%) of
the employers rating them as good). On self-assessment, 116 (61.7%) of the graduates reported not to have faced any skills competency challenge at their workplace and only 57 (30.3%) reported adequacy in skills acquired during undergraduate training. From the in-depth interviews, the graduates applauded the current curriculum implementation strategy of Problem Based Learning (PBL) but faulted the infrastructural inadequacies for low competencies and inadequate skills. The in-depth interviews further revealed a picture of graduates struggling with skills’ mismatch in their job placement.

**Conclusion:** The study revealed a good rating by employers on the graduates’ competency skills but a high proportion (69.7%) of graduates reported lack of adequate skills to match their work demands. **Recommendations:** Institutions of higher learning need to invest in infrastructural elements of curriculum implementation to boost more practical sessions for better skills’ acquisition that matches the industrial needs.

**Keywords**

Environmental Health, Graduates, Employer, Perspectives & Work Demands

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**1. Introduction**

Public health workforce is vital for protecting the safety of the public. The development of a fully competent public health workforce is a key component of the nation’s public health. It is also critical to the improvement of population health globally. However, there is a growing rate of unemployment among university graduates, yet employers are lamenting on their inability to get skilled workforce for hire [1]. This has raised a heated debate across the globe on the quality of graduates being trained and released into the job market. One of the factors singled out for graduate unemployment in Kenya is an increasing mismatch between education skills, practical and the domains of the job market [2]. This has led to the mounting increase in global concerns and the campaigns for the need for competent public health workforce that is responsive to the ever-changing public health complexities [3]. This indeed is an aspect of quality assurance and high competency training also advocated for by the Kenyan Commission for University Education (CUE) established in 2012 under the Universities Act No. 42 of 2012 as a successor to the Commission for Higher Education in Kenya. This commission is mandated to regulate University Education to ascertain quality education for national, regional and global competitiveness [4] [5]. The Kenyan Commission for Higher Education (CUE) has been trying to tackle the quality crisis seen in Kenyan universities by undertaking sweeping reviews, crackdowns and other forms of quality audits. Despite all these measures, a host of questionable practices affecting the quality of the Kenya’s rapidly expanding higher education sector and that of its graduates still exists [4] [6] [7].

As the global university enrolment rate soars high, graduates from Kenyan
universities have increased from 25,523 in 2012 to 49,020 in 2015 [8]. This rapid increase is however not corresponding to their abilities to undertake work requirements. A study by the interuniversity council of East Africa revealed that more than 50% of the graduates are poorly prepared for the job market with Kenyan graduates ranging the highest at 67%. This raises serious concerns for the various academic institutions in their continued journey of training and generating graduates into the labor market. It is well known that these institutions of higher learning use varying curriculum as well as varying curriculum implementation strategies. Whereas the curricula vary for the different academic institutions, what is less clear is whether what is taught matches the competency requirements for the real world work requirements [9]. Several other studies and annual reviews on outcome based workforce development in public health have placed higher hopes on a successful academic-practical partnership to improved public health outcomes [10] [11]. If industries are encouraged to continuously give feedback to academic institutions on graduate trainee’s assessment, a key aspect of targeted training would be institutionalized and could eventually revolutionize graduate outcomes [1] [12]. This study sought to determine the employer’s perspectives on the graduates’ abilities to handle work demands. The graduates’ self-assessment on the adequacy of the competencies acquired during their training, the competency challenges faced as well as their career placements were also explored.

2. Materials and Methods

2.1. Study Design

A cross sectional study using both quantitative and qualitative methods was used.

2.2. Study Site

The study was based at the Department of Environmental Health, Moi University, and College of Health Sciences.

2.3. Study Population

The study population encompassed B.Sc. Environmental Health graduates and their respective employers in the various practitioner organizations.

2.4. Study Sample and Target

The study targeted a sample of 227 graduates and 45 employers. Graduates who had graduated from the school of public, Moi University from the year 1999 to 2015 were targeted. For the in-depth interviews, saturation level was reached at graduate number 22.

To get the graduates desired sample size, the Cochran’s formula was used as follows;

$$n = \frac{z^2 pq}{d^2}$$
where:

\[ n = \text{The desired sample size.} \]

\[ z = \text{the corresponding value confidence level of 95\% in the normal distribution table.} \]

\[ P = \text{the proportion in the target population whose training matches the workforce demands (used 60\% as per the healthcare competency research done by Quality assurance project in Kenya) [13].} \]

\[ q = 1 - p. \]

\[ d = \text{the amount of discrepancy to correlate in } p. \text{ It was set at 0.05.} \]

\[ n = 1.96^2 \times 0.6 \times 0.4/0.05^2 = 368. \]

Since the population under study was less than 10,000, then the sample size of the B.Sc. graduates was adjusted using Fischer Exact formula used for calculating sample sizes for population sizes less than 10,000 as below;

\[ n = n_0 \left/ \left(1 + ((n_0 - 1)/N) \right) \right. \]

where:

\[ n — \text{the adjusted sample size.} \]

\[ n_0 — \text{the calculated sample size from the Cochran’s formula (368).} \]

\[ N — \text{The population size (600).} \]

\[ n = 368/(1 + 367/600) = 227 \]

The employer organizations were mapped using the existing EVH alumni register versus their placement to establish the highest absorber of the graduates. A total of 45 practitioner organizations were targeted who had employed at least 2 graduates.

2.5. Sample Size Selection

The graduates were stratified by year of graduation and sex then proportionately recruited using simple random sampling. The employers were purposively recruited.

2.6. Inclusion Criteria

2.6.1. Graduates

The graduates must have graduated between the years 1998 and 2015, both years inclusive and have ever worked for least six months after qualifying from the university.

2.6.2. Employers

The employers must be employees of any practitioner organizations employing BSc. EVH graduates. They should have been involved in supervision of the graduates.

2.7. Exclusion Criteria

Graduates working outside Kenya were excluded whereas employers who have
not supervised graduates for at least six months were excluded.

2.8. Data Collection Methods and Tools

A pretested semi-structured questionnaire was used to collect data from the graduates and the employers. The interviews with the graduates were carried out by administration of the questionnaires via an online survey while the one with the employers was self-administered. With this, appointments were made; a questionnaire was then delivered and collected at an agreed date and time.

The questionnaires had information to capture demographic (age, sex etc.) data of the graduates and the employer respondents. It also contained Likert scale items to assess the graduate’s skills competencies as per the job requirements by the employers. Other items in the questionnaire dealt with the graduate’s perception of the adequacy of their skills obtained during undergraduate training in preparation for the work demands.

For in-depth interviews, the graduates were subjected to oral questioning using open-ended questions until saturation level was achieved. An audio recorder was used during the interviews and later transcribed. The saturation level was achieved at graduate number 22.

2.9. Data Management and Analysis

Quantitative data was analyzed using SPSS version 20 whereby data was summarized using frequencies and proportions. Qualitative findings in-depth interviews were transcribed into written words and used for narrations.

In assessing the graduates’ performance by their employers, the core competency skills for the broad practice of public health were adopted from the Council on Linkages between Academia and public health practice [14]. The skills assessed ranged from analytic/assessment skills to the job knowledge. Each core competency item that the employers used to assess the graduates’ performance was evaluated using a Likert scale of 1 - 4 where 1—“Poor”, 2—“Fair”, 3—“Good”, 4—“Excellent”. The frequencies of the scale responses per item were totaled and proportions calculated.

2.10. Ethical Considerations

Ethical approval was obtained from Institutional Research and Ethics Committee (IREC, a College of Health Sciences), Moi University and the Moi Teaching and Referral Hospital committee. Informed consent was sought from all the participants. Participation was voluntary and the information provided was treated with confidentiality and anonymity.

3. Results

3.1. Graduates Demographic Characteristics

Of the 227 graduates sampled for the study, 188 completed the questionnaires, giving a response rate of 82.8%. The Among 188 graduates that completed the
questionnaires, 79 (42%) were aged 25 - 34 years, 71 (37.8%) aged 35 - 44 years, 29 (15.4%) aged 45 - 54 and 9 (4.8%) were ≤25 years. More than half 111 (59%) of the graduates were males.

3.2. Graduates Career Placements

The graduates were distributed over more than 12 public health career areas. These included disaster preparedness and management 33 (17.6%), research 27 (14.4%), community health 16 (8.5%) and Infection prevention 16 (8.5%). There was also a category of other careers (17%) and included those who were running consultancy companies, working in private enterprise, and others based at the banks as banks clerk. The career distribution is as depicted in Figure 1.

3.3. Graduates Perceptions of Their Competencies to Handle Work Demands

Of all the graduates interviewed, 142 (75.5%) reported that their undergraduate training formed the basis for their current job. On the other hand, only 57 (30.3%) reported adequacy in their skills acquired during undergraduate training and 72 (38.2%) of the graduates intimated that they had faced competency challenges at their workplace.

The results from the in-depth interviews portrayed a mixed picture about the role played by their training in determining their competencies, with negative narrations from those who reported competency challenges and praises from those who had not faced competency challenges as exemplified from the narrations below;

“… regrettably nobody mentioned strategies like PHASE, PHAST, CLTS, MHM etc. which are common WASH terms … in fact, my employer wondered what kind of public health I had done …”
39 years old female

“… well for me the program is excellent and I enjoy applying the skills out here … the department just needs to improve on the weak areas like practical orientation aspects …”
35-year-old male

“… need to review the curriculum to be up to date with the requirements of the job market; personally, I had to learn some aspects on job …”
34-year-old Male.

3.4. Demographic Characteristics of the Employer Respondents

Out of the sampled 45 employers, 39 responded giving a response rate of 86.6%. Among the 39 employer respondents who participated in the study, 16 (41.0%) were aged between 50 - 59 years and 27 (69.2%) were male. Eleven (28.2%) of the employer respondents were field supervisors and the same number had worked for 2 - 5 years with the same employer. The details of the employer respondent demographic characteristics are shown in Table 1.
Figure 1. Distribution of graduate career placements.

Table 1. Demographic characteristics of the employer respondents.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Frequency (n)</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Age-group (years)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 - 39</td>
<td>8</td>
<td>20.5</td>
</tr>
<tr>
<td>40 - 49</td>
<td>10</td>
<td>25.6</td>
</tr>
<tr>
<td>50 - 59</td>
<td>16</td>
<td>41.0</td>
</tr>
<tr>
<td>≥60</td>
<td>5</td>
<td>12.8</td>
</tr>
<tr>
<td><strong>Gender</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>27</td>
<td>69.2</td>
</tr>
<tr>
<td>Female</td>
<td>12</td>
<td>30.8</td>
</tr>
<tr>
<td><strong>Current position in the organization</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Head of department</td>
<td>6</td>
<td>15.4</td>
</tr>
<tr>
<td>Human resource manager</td>
<td>2</td>
<td>5.1</td>
</tr>
<tr>
<td>Field Supervisor</td>
<td>11</td>
<td>28.2</td>
</tr>
<tr>
<td>Program manager</td>
<td>3</td>
<td>7.7</td>
</tr>
<tr>
<td>Administrator</td>
<td>9</td>
<td>23.1</td>
</tr>
<tr>
<td>Others</td>
<td>8</td>
<td>20.5</td>
</tr>
<tr>
<td><strong>Duration worked with current institution</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;2 years</td>
<td>10</td>
<td>25.6</td>
</tr>
<tr>
<td>2 - 5 years</td>
<td>11</td>
<td>28.2</td>
</tr>
<tr>
<td>5 - 10 years</td>
<td>9</td>
<td>23.1</td>
</tr>
<tr>
<td>&gt;10 years</td>
<td>9</td>
<td>23.1</td>
</tr>
</tbody>
</table>

3.5. Employers’ Perspectives on Graduates Performance on Assigned Tasks

On specific competency ratings, 20 (51.3%) of the employers rated graduates as
excellent on meeting timelines and being team players. Employers also rated graduates as good in planning and organizational skills (53.8%), analytic and assessment skills (48.7%) as well as in practical and technical skills. There was however, a significant proportion of employers who rated the graduates’ communication skills as fair (30.8%). The overall mean score of the competencies was 3.30 with a standard deviation of 0.24. The employer rating of graduate’s skills competencies is as shown in Table 2.

3.6. Employer Respondent Characteristics and the Assessment of Graduate’s Skills Competencies

Analysis of the relationship between the graduates skills competency scores and the employer characteristic showed that, there was a statistically significant difference in the competency scores between the positions of the employer respondents ($\chi^2 = 12.916; p = 0.024$). The mean rank scores were higher among the category under others (26.31) and lower among program managers (6.67) as shown in Table 3.

4. Discussion

Findings from the study indicate that more than half of the employers (61.5%) indicated that the environmental health graduates employed in their organizations had no challenges in their skills competencies. This finding is similar to the findings of a study done in Malaysia on Malaysian graduates’ employability skills where employers who had hired graduates from Malaysian universities were satisfied and happy with the graduates from these universities [15]. On the hand, 116/188 (61.7%) of the graduates reported that they did not face any competency challenges in their work place. This finding is consistent with those of a study done by Prince et al. [16] where junior doctors transitioning from medical school to clinical practice in the Netherlands reported that their undergraduate training was adequate in terms of skills acquisition that boosted their confidence in clinical practice. There was a significant proportion of employers (38.5%) reporting that environmental health graduates face skills competency challenges and a similar proportion (38.3%) of the graduates self-reporting inadequacies in their skills competencies. These findings in addition to only 30.3% of the graduates reporting adequacy in skills acquired during undergraduate training could be postulated to be as a result of a disconnect of key training needs between the higher education and the world of work and this calls for concerted efforts from all the concerned stakeholders to remedy the situation. With a substantive proportion of employers reporting graduates’ competency challenges at their job placement, it seems the reliance upon the new graduates to foster innovative practices in organizations is fading away [17]. Graduates competency challenges have been associated with several factors during their course of training as well as skills change [18].

Despite these competency challenges being alluded to the constant change of skills requirement by employers, there is need to explore the development of
Table 2. Employer rating of graduate’s skills competencies.

<table>
<thead>
<tr>
<th>Item</th>
<th>Frequencies (%)</th>
<th>Mean (SD)</th>
<th>Median</th>
<th>Min MAX</th>
<th>P value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Poor Fair Good Excellent</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Analytic and assessment skills</td>
<td>2.6 17.9 48.7 30.8</td>
<td>3.09 (0.77)</td>
<td>3</td>
<td>1 - 4</td>
<td>0.055</td>
</tr>
<tr>
<td>Planning and organization skills</td>
<td>0 12.8 53.8 33.3</td>
<td>3.21 (0.66)</td>
<td>3</td>
<td>2 - 4</td>
<td>0.225</td>
</tr>
<tr>
<td>Communication skills</td>
<td>0 30.8 38.5 30.8</td>
<td>3.00 (0.79)</td>
<td>3</td>
<td>2 - 4</td>
<td>0.004</td>
</tr>
<tr>
<td>Practical and technical skills</td>
<td>0 15.4 48.7 35.9</td>
<td>3.21 (0.70)</td>
<td>3</td>
<td>2 - 4</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Quality of work by the graduate</td>
<td>0 10.3 48.7 48.7</td>
<td>3.38 (0.67)</td>
<td>3</td>
<td>3 - 4</td>
<td>0.282</td>
</tr>
<tr>
<td>Completes assigned tasks on time</td>
<td>0 0 48.7 51.3</td>
<td>3.51 (0.51)</td>
<td>4</td>
<td>3 - 4</td>
<td>0.142</td>
</tr>
<tr>
<td>Meeting timelines</td>
<td>0 5.1 43.6 51.3</td>
<td>3.46 (0.60)</td>
<td>4</td>
<td>2 - 4</td>
<td>0.591</td>
</tr>
<tr>
<td>Team player</td>
<td>0 46.2 35.9 17.9</td>
<td>3.51 (0.51)</td>
<td>4</td>
<td>3 - 4</td>
<td>0.018</td>
</tr>
</tbody>
</table>


Table 3. Employer respondent characteristics and the assessment of graduate’s skills competencies.

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>N</th>
<th>Mean Rank</th>
<th>Test statistic</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Age (years)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 - 39 years</td>
<td>8</td>
<td>15.25</td>
<td>2.105 a</td>
<td>0.551</td>
</tr>
<tr>
<td>40 - 49 years</td>
<td>10</td>
<td>22.80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 - 59 years</td>
<td>16</td>
<td>20.53</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60 - 69 years</td>
<td>5</td>
<td>20.30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sex</td>
<td></td>
<td></td>
<td>0.258 b</td>
<td>0.797</td>
</tr>
<tr>
<td>Male</td>
<td>26</td>
<td>19.67</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>13</td>
<td>20.65</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Position in the organization</td>
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<td>12.916 a</td>
<td>0.024</td>
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<td>Head of department</td>
<td>6</td>
<td>10.00</td>
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<td>Human resource manager</td>
<td>2</td>
<td>20.75</td>
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<td>Field Supervisor</td>
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<td>Program manager</td>
<td>3</td>
<td>6.67</td>
<td></td>
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<tr>
<td>Administrator</td>
<td>9</td>
<td>20.61</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td>8</td>
<td>26.31</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of years worked</td>
<td></td>
<td></td>
<td>6.278 a</td>
<td>0.099</td>
</tr>
<tr>
<td>&lt;2 years</td>
<td>10</td>
<td>22.05</td>
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<td>2 - 5 years</td>
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<td>5 - 10 years</td>
<td>9</td>
<td>11.89</td>
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<td></td>
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<tr>
<td>&gt;10 years</td>
<td>9</td>
<td>23.61</td>
<td></td>
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</tr>
</tbody>
</table>

a-Kruskal-Wallis; b-Mann Whitney.
employability agenda in higher education and examine implications of organizational change for graduates while assessing the attributes that graduates will need in their next phase of job placement [19][20]. As this debate rages on, higher education institutions must be well informed of the graduate’s expectations from the world of work in order to adopt the proactive role in responding to preparing graduates to face future job tasks, new employment patterns and contributions to innovative society [21].

On specific competency ratings, 20 (51.3%) of the employers rated graduates as excellent on meeting timelines and being team players. This group of graduates in terms of competency and individual performance need to be commented for continued performance. As Kurtz and team asserts in their study on modelling the world of work, excellent performers over time decline dramatically due to organizational culture [22]. However, due to the current public health practice, public health graduates ought to maintain their public health knowledge on the most recent advances of public health and attending CPD programs is one way of refreshing knowledge and remaining current.

The results of the current graduates’ career placement revealed mixed expectations. The leading graduates’ career was disaster management, followed closely with the careers grouped as others. Although disaster management, is an expected outcome of the degree program training, the career grouped ‘others’ raised some concerns. The graduates’ careers under ‘others’ included running of consultancy firms, entrepreneurship, banking and leadership in financial corporations. This finding could suggest some aspect of graduates’ competency challenges and hence their subsequent choices to undertake less stressful tasks as were found out by Walsh et al., [23] on their study on core competencies for disaster medicine and public health. The finding could also mean that there is no sufficient market for the Bachelor of Science environmental health graduates and therefore opting to take up any other job available to earn a living. The study by Walsh et al., [23] showed that despite being trained, public health graduates lacked critical knowledge and experience to operate under stressful conditions thereby resorting to other comfortable career options. Our study seem to point out some training gaps which could be identified as professional training needs and ploughed back to the graduates’ curriculum for better workforce development as suggested by Aslam and team [24].

5. Conclusion

The study showed that the environmental health graduates’ skills competencies were good as assessed by the employers and the employers also noted that the majority of the graduates employed in their organizations had faced no skills challenges in their place of work. A significant proportion of the graduates reported that they faced competency challenges and lacked adequate skills to match their work demands. This inadequacy in skills could be an indicator of lack of practical experiences due to theoretical trainings and very limited field exposures. The curriculum content and scope should be expanded to meet the
changing technological skill needs of the job market. For well-rounded training, institutions of higher learning should establish linkages and collaboration to enhance professional skills as well as well-developed workforce meeting industry demands.

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**Conflicts of Interest**

The authors declare no conflicts of interest regarding the publication of this paper.

**References**


**List of Abbreviations**

CLTS: Community Led Total Sanitation;  
MHM: Menstrual Hygiene Management;  
PHAST: Participatory Hygiene and Sanitation Transformation;  
WASH: Water, Sanitation and Hygiene.