Development of Factorial Validation for Emotional Intelligence Competency Scale as Skills for Employment of Technical Education in Northern Nigeria

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Abstract

This study focused on the development and factorial validation of an instrument as a skills for employment of technical education graduate in northern Nigeria. The author adopted Goleman (2002) model of emotional intelligence consisted of self-awareness, self-management or regulation, social-awareness and relationship management to generate the items for study. The study adopted exploratory and descriptive research design and was carried out in northern Nigeria. The samples of the study are 45 final year students that are used as the pilot sample from institutions offering technical education in northern Nigeria. The main instrument is a set of questionnaire which consisted of 95 items that were used as the draft copy of the instrument and were validated by 5 experts. The factor analysis was applying to analyze the result of the validation. The factorial validation was chosen because this method help the researcher to clarify the number of factors within a set of items. The 95 items draft copy of the instrument had factor loadings ranged from 0.598 to 0.790 and were above the factor loading of 0.50 at 10% overlapping variance with one component, with reliability coefficients ranged from 0.76-0.89, given total of 0.914 Cronbach alpha coefficient of internal consistency reliability in the four components computed, with this result its indicated that the scale was a refined test. Consequently, this shows that, 95 items are valid enough to develop the emotional intelligence competency scale as a skills for employments of technical education in northern Nigeria and as well were also highly reliable as a skills for employments of technical education in northern Nigeria. Therefore, the developed and validated emotional intelligence competency scale could be used to gauge the amount of emotional intelligence competence of students and graduates of technical education if is use by appropriate authority.

Keywords
Instrument Development, Emotional Intelligence, Factorial Validation

1. Introduction

Developing measuring instrument for emotional intelligence is widely encouraged by scholars as it’s very important and more appropriate to measure emotional intelligence base on individual settings for certainty of measured abilities. Instruments as a generic term in education, its outcome need to be consistent, dependable, reliable, valid and useable, and it has two classification for researchers and their subject (Biddix 2006). Nigerian technical education graduate as the subject in the study is a skilled individual that need to be aware of his/her emotional state, appropriately regulate his/her emotions and socially associate with others and manage his relationship and this can only be achieve through the development of appropriate tools especially on emotional intelligence (Ranganat 2011). Ogwo and Oranu (2006) defined an instrument as a data collection device and information gathering tools in education. Afolabi (2017) stated that it is appropriate for every researcher to use appropriate instruments to assess emotional intelligence.

Emotional intelligence is termed to be an intellectual talent involved in one’s personal behavior, an individual’s ability to be aware of his/her emotions, understand and use the emotional competence on his/herself and others to achieve a specific goals (Boyatzis and Fabio 2004). Developing an instrument to suit individual context and individual social dorms should be the major issues for scholars globally, as studies emphases on the relevance of developing an emotional intelligence instrument to suit the context and individual’s social norms (Nguye 2019: Aforlabi 2017). Ability for one’s to recognize his/her emotional state and those of others is a motivating factors, in maintaining our relationships with others. Emotional intelligence as an individual capacity to perform well in one choosing career
(Ranganath 2011). Thus, it become a necessary skills for technical education graduate at this time of market competition.

Technical education graduate is a skilled individual that operate machines and tools to carry out a giving task, whom acquired the knowledge and skills through training under the guidance of professionals (Backstein et al. 2005; Azodo 2014; Van Laar et al. 2017). It is assumed that individual that possess technical skills to immediately secure employment after graduation but lack of knowledge on emotional intelligence on the part of the technical education graduate and absence of specific instrument to measure the emotional intelligence for employment of technical education student is a major challenge facing the discipline. Based on the definition of technical education by Comfort (2012) technical education is the study of technologies and related scientific knowledge, and the acquisition of applied skills, understanding, attitudes, characters and knowledge relating to career in various financial sectors and social life, visa viz emotional intelligence. A study by Awang et, al. (2017) proved that an individual who has a higher level of emotional intelligence have a tendency to be more committed, develop good working relationships, more forbearing when facing emotional pressure without losing their temper. Hence, it is important to measure the emotional competency to get students more prepared for employment.

1.1 Problem statement
Nigerian technical education graduate as the subject in the study is a skilled individual that need to be aware of his/her emotional state, appropriately regulate his/her emotions and socially associate with others and manage his relationship to achieve his/her goals, that wasn’t achieve due to the lack of knowledge on emotional intelligence and absence of appropriate instrument to measure the emotional intelligence of technical education graduate in northern Nigeria. This can only be achieve through the development of appropriate tools especially on emotional intelligence (Udo 2014).

Hence the need for the study

1.2 Objectives
This study is aim to determine the validity and reliability of the developed emotional intelligence competency scale as a skills for employment in technical education in northern Nigeria.

2. Literature Review
2.1 Emotional intelligence
Emotional intelligence has turn out to be a rendezvous terms among scholars with quite a lot of understanding and definitions of the concept. Salovey and Mayer (1990) viewed emotional intelligence as a mental ability, a subdivision of social intelligence that comprises the ability to observe our personal emotions and feelings and those of others’ to differentiate among them and to use this information to direct our thinking and actions. whilst Petrides (2011) understand it as an individual personality trait, and Daniel Goleman (1995) as emotional competence. Shi and Wang (2007) as a mixture of motivations, cognitive and affective constructs. Emotional intelligence is a combination of cognitive abilities and personality traits (Laura and Anca, 2014). In Goleman (2011) emotional intelligence is an ability that differentiates brilliant individuals from mediocre. To Bhullar and Schulte (2018) emotional intelligence is an individual ability to use his/her emotions effectively in achieving personal goals. Goleman (2002) proposed four cluster of emotional intelligence thus Self-Awareness, Self-Regulation, Social-Awareness and relationship management and defined it as ability to understand your emotions as well as others, to effectively manage behavior, to navigate social situation, and make personal decisions. “Building upon and integrating a great deal of competencies research, Goleman Boyatzis and Mekee, (2002) presented a model of emotional intelligence with eighteen competencies arrays in four clusters” (Boyatzis and Sala 2004. pp12) the thus;

Cluster one, self-awareness competencie
i. Emotional self-awareness
ii. Accurate self-assessment
iii. Self-confidence
Self-Awareness is an individual capacity to understand, recognize, and appraise one’s emotional state (Egbedion, 2010). An ability for one’s to truthfully identify his/her feelings and understand his/her strengths and limitations for personal for growth (Boyatzis and Sala 2004).
Cluster two Self-Regulation competencies
i. Emotional self-control
ii. Transparency
iii. Adaptability
iv. Achievement
v. Initiative
vi. Optimism

Self-Management entails the individual capacity to control his/her emotional state and impulses in maintaining his/her relationship with others (Talentsmart Inc., 2011).

i. Empathy
ii. Organizational awareness
iii. Service orientation

Social-Awareness is an individual capacity to identify and properly react to the emotions and feelings of others (Egebedion, 2010). Acknowledging others feeling, feeling others as ours, being considerate and thoughtful, making decisions that take other feeling into considerations can help build your social-awareness (Boyatzis and Sala 2004).

Clusters four, relationship-management competencies
i. Developing others,
ii. Inspirational leadership
iii. Influence
iv. Conflicts management
v. Change catalyst
vi Team work and Collaboration

Relationship management or interpersonal skills entails the individual capacity to understand the intents, impulses and need of other people which permit one’s to effectively work together to achieve a common goals, (Talentsmart Inc., 2011). Influencing and inspiring others, clear communication, managing conflict and successful team work, and relationship management are attribute (Boyatzis, and Sala 2004).

Emotional Intelligence is the characteristics for achievement in recent time. Emotional intelligence competency is a skills for employment in 21st century (Suarta et al. 2017). Graduate of technical education are facing serious challenges due to the new skills demand, such as EI for employment. (Coetzee and Beukes 2010; Omar et al. 2012 Suarta et al. 2017; Marino 2018). This necessitate technical education student to acquire emotional intelligence competency as a skill for employment.

2.2 Technical education
Technical education is designed to develop individual’s work skills and technical expertise to face the challenges of lack of employment (Odo 2017), and education that used knowledge, attitude, manual expertise to avert poverty, “an integral part of general education, a means of preparing for occupational fields and for effective participation in the world of work, an aspect of lifelong learning and a preparation for responsible citizenship, an instrument for promoting environmentally sound sustainable development, and a method of facilitating poverty alleviation (pp.7)” (UNESCO and ILO 2002), as it comprises industrial training, the use of hand tools, machine operations as well as commercial skills work (Odo et al, 2017).

2.3 Instrument development
Development of new instrument occurs as a result of absence of precise tool to measure phenomena in education, health and social sciences. Researchers in social sciences and behavioral research develop new instrument in condition where a phenomena where observed and there is no existing instrument available to measure the phenomena, these by generation of items from literature and survey method by using questionnaire (Zhou (2019). To successfully develop a new scale according to Zhou (2019) five stages are needed; definition of construct and content domain, items generation, scale pilot-test, revising the developed scale, finalizing the scale.

2.4 Factorial validation
“Validity of a test refers to the extent to which a test measures what it is supposed to measure. This implies that a test, which is valid for one purpose may not be valid for another” (Anaekwe 2007 pp105). Face and construct validity test
were conducted to examine the factorability, validity and reliability of the 95 items of emotional intelligence competency scale. Factorial validity examines the degree to which the indicated constructs of a measure can be recovered in a set of test score (Hooper 2012). It also concerned with the internal structure of test scores. A test internal structure is the way that the parts of the test are related to each other (Leimeister 2010). The actual structure of the test should be of the same face with the theoretical or intended structure of the test. Simply, factorial validity is used to identify what the test is made to measures in a given test (Hair et al. 2017). That is, with the respect to the valid dimensions, and the characteristics of those dimensions and components (Hair et al., 2009). The definition of the dimensions are determined by which items load onto which dimensions. (Brasseur et.al. 2013).

3. Methods

Mixed method research design was used for the study. The data collected were integrated sequentially to address a research objective (Creswell & Clark, 2018).

Firstly, generation of the items from literature reviewed from work of Aforlabi (2017); Coetzee and Beukes (2010) and Goleman (2002). Using emotional intelligence model of Daniel Goleman (2002) of self-awareness, self-regulation, social awareness and relationship management. The initial items generated were validated by 9 experts in the field of psychology, educational psychology, measurement and evaluation and technical education, thereafter, two round Delphi techniques was carried out to decide on the appropriate items for the development of Emotional Intelligence Competency Scale as Skills for Employment of Technical Education in Northern Nigeria. Delphi experts were recruited to rate the items in the questionnaire and the resultant data was analyzed using the coefficients of variance for mean and standard deviation, the result of the analysis of the rated items were used in developing the instrument in line with the opinion of (Aforlabi 2017; Nguye 2019; Schutte et al. 1997).

Secondly, the instrument developed was validated by 5 professional lecturers of technical education and tested on sample population of 45 technical education students selected from institutions offering technical and vocational education in northern Nigeria for the pilot study. Cronbach’s alpha coefficient reliability test were used on the pilot study data to determine the feasibility of the instrument. Consequently, the developed instrument was factor analyzed for adequate content validity.

4. Data Collection

Structured questionnaire were developed and used as the instrument for data collection in this study.

5. Results and Discussion

The summary of the factor validity result of the study indicated that 95 items in the draft copy of the emotional intelligence competency were valid for developing emotional intelligence competency scale as a skills for employment in technical education in northern Nigeria.

The developed emotional intelligence competency scale was highly reliable for employability skills of technical education graduates in Northern Nigeria as the reliability of the entire items resulting to be 0.867, 0.809, 0.832 and 0.913 respectively, with overall alpha 0.958, thus; Cronbach’s alpha coefficient for testing internal consistency reliability in the four components computed indicated that the scale was a refined test. The four components represent a developed emotional intelligence competency scale for employability skills. Component one (A) represents Self-Awareness, Component two (B) represent, Self-Regulation, Component three (C) represents Social-Awareness and the component four (D) represents the relationship management .whilst, the data for the factor analysis reveals that 95 items had factor loadings that ranged from 0.598 to 0.790 and were above the factor loading of 0.50 at 10% over lapping variance with one component.

The study findings shown that the 95 items are valid for the development of emotional intelligence competency scale as a skills for employment in technical education in northern Nigeria. Whilst, given the high reliability coefficients or substantial agreement for various competencies in the scale/instrument, the items in the emotional intelligence competency scale were reliable and could be considered for use in assessing employability skills of technical education graduates in Northern Nigeria. These findings were in agreement with the opinion of Olaitan (2003) that face validity of psychomotor learning activity could be pursued by submitting the list of skill items drawn up for use to experts for review so as to yield compromise or consensual agreement on the importance of the items and such was the case in this study. In order to make the outcomes of validity concrete, factor analysis was conducted and Cronbach alpha.
reliability was employed to determine the reliability of the items used for the development of the scale and this is in agreement with the opinion of Bakare (2014) stated that in face validity or validation, the experts are hired to vet, remove, reword and replace any irrelevant item(s) of the instrument with useful ones and factor analysis can now be conducted.

5.1 Numerical Results
Table 5.1 Summary of Factorial Validity/Factor Analysis of the 95 Items Retained for the Emotional Intelligence Competency Scale as a skills for employment in technical education in northern Nigeria

<table>
<thead>
<tr>
<th>S/N</th>
<th>Item statements</th>
<th>Factor loading at 0.50</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td><strong>Self-Awareness Competencies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>I understand when I am in strongly angry as a technical education graduate</td>
<td>.663</td>
<td>Valid</td>
</tr>
<tr>
<td>2</td>
<td>I know when I am feeling pleasure as a technical education graduate</td>
<td>.709</td>
<td>Valid</td>
</tr>
<tr>
<td>3</td>
<td>I am aware of what I am unable to do as a technical education graduate</td>
<td>.751</td>
<td>Valid</td>
</tr>
<tr>
<td>4</td>
<td>I have the ability to manage my feeling such as love, anger, fay, hate, fear etc. as technical education graduate</td>
<td>.749</td>
<td>Valid</td>
</tr>
<tr>
<td>5</td>
<td>I have the ability to judge people fairly as a technical education graduate</td>
<td>.684</td>
<td>Valid</td>
</tr>
<tr>
<td>6</td>
<td>I have the ability to perceive people opinion positively as a technical education graduates</td>
<td>.663</td>
<td>Valid</td>
</tr>
<tr>
<td>7</td>
<td>I accept constructive criticism as a technical education graduate</td>
<td>.716</td>
<td>Valid</td>
</tr>
<tr>
<td>8</td>
<td>I view things critically before passing judgement as a technical education graduate</td>
<td>.728</td>
<td>Valid</td>
</tr>
<tr>
<td>9</td>
<td>I have the ability to convince people to agree with my opinion as a technical education graduate</td>
<td>.756</td>
<td>Valid</td>
</tr>
<tr>
<td>10</td>
<td>I have the ability to motivate people towards achieving positive result as a technical education graduate</td>
<td>.638</td>
<td>Valid</td>
</tr>
<tr>
<td>11</td>
<td>I can confidently express my feelings when seeking for favours as a technical education graduate</td>
<td>.696</td>
<td>Valid</td>
</tr>
<tr>
<td>12</td>
<td>I have the ability of facing challenges no matter the difficulties as a technical education graduate</td>
<td>.621</td>
<td>Valid</td>
</tr>
<tr>
<td>13</td>
<td>I know my worth as a technical education graduate</td>
<td>.693</td>
<td>Valid</td>
</tr>
<tr>
<td>14</td>
<td>I have the ability to stand to my words no matters the situation as a technical education graduate</td>
<td>.716</td>
<td>Valid</td>
</tr>
<tr>
<td>15</td>
<td>I have the ability to face crowd and express my capability as a technical education graduate</td>
<td>.725</td>
<td>Valid</td>
</tr>
<tr>
<td>16</td>
<td>I have the ability to stand firm on my word as a technical education graduate</td>
<td>.641</td>
<td>Valid</td>
</tr>
<tr>
<td>17</td>
<td>I understand when I am in depressed situation as a technical education graduate</td>
<td>.679</td>
<td>Valid</td>
</tr>
<tr>
<td>B</td>
<td><strong>Self-regulation competencies</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>I have the ability of controlling my emotions when dealing with my friends as technical education graduate</td>
<td>.661</td>
<td>Valid</td>
</tr>
<tr>
<td>19</td>
<td>I can realise immediately when I lose my temper as technical education graduate</td>
<td>.683</td>
<td>Valid</td>
</tr>
<tr>
<td>20</td>
<td>I can easily suppress my anger to achieve my goals as technical education graduate</td>
<td>.678</td>
<td>Valid</td>
</tr>
<tr>
<td>21</td>
<td>I can control my mood when dealing with client as technical education graduate</td>
<td>.738</td>
<td>Valid</td>
</tr>
</tbody>
</table>
22 I am good in directing my negative emotional feelings .709 Valid
23 I have the ability of exhibiting good morals to avoid criticism and blame as a technical education graduate .690 Valid
24 I am straight forward when relating with others as a technical education graduate .671 Valid
25 As a technical education graduate I like to be reliable in all circumstances. .790 Valid
26 I hate cheating and been cheated as a technical education graduate .745 Valid
27 I like transparency in my relationship with others as a technical education graduate. .727 Valid
28 As a technical education graduate I don’t trade my integrity for my personal interest. .692 Valid
29 I open up in my affairs to win people’s trust as a technical education graduate .759 Valid
30 I like displaying honesty and integrity in my relationship with others as a technical education graduate. .786 Valid
31 I have the ability to listening to others as a technical education graduate .665 Valid
32 I am highly meticulous when in needs of favours as a technical education graduate .743 Valid
33 I like to always be cautious in my relationship with others as a technical education graduate .779 Valid
34 I have the ability to always be cautious in my relationship with friends as a technical education graduate. .620 Valid
35 I like being hard-work as a technical education graduate .636 Valid
36 I need to always be specific as a technical education graduate. .718 Valid
37 I have a motivated mind to achieve goals as a technical education graduate .636 Valid
38 I can easily accept to a new environment as a technical education graduate .767 Valid
39 I can conveniently work with new people effectively as a technical education graduate .781 Valid
40 I have the ability to relate with new people cordially as a technical education graduate .668 Valid
41 I have the ability to adapt to new ideas and demand to initiate action as a technical education graduate .696 Valid
42 I can apply cognitive and non-cognitive skills simultaneously to achieve goals as a technical education graduate .707 Valid
43 I can use little opportunity to achieve higher goals as a technical education graduate .696 Valid
44 I can get things done according to my ways as a technical education graduate .618 Valid
45 I can open up to new ideas, approaches and information as a technical education graduate .716 Valid
46 I admit my mistake for correction as a technical education graduate .644 Valid
47 I am highly optimistic in setting objectives as a technical education graduate .674 Valid
48 I have the ability for one to activate favours no matter how dynamic situation is .676 Valid
49 I have the ability to use available means to make ways in order to succeed as a technical education graduate .687 Valid

C Social awareness competencies

50 I have the ability to share other people feelings as a technical education graduate .718 Valid
51 I take others difficult situations as mine as a technical education graduate .595 Valid
52 I have feeling of wanting to help when someone is in need as a technical education graduate  \[.517\] Valid
53 I have the ability to manifest positive attitude towards others as a technical education graduate  \[.692\] Valid
54 I know my capability as a technical education graduate  \[.704\] Valid
55 I can work independently to accomplish responsibility as a technical education graduate  \[.629\] Valid
56 As a technical education graduate I have the ability to read groups and individual intent behaviour through mutual discussion within group or organization.  \[.684\] Valid
57 I can listen in order to understand organizational concept as a technical education graduate  \[.659\] Valid
58 As a technical education graduate I can understand organizational priorities  \[.707\] Valid
59 I can understand the values of organization within which I am working as a technical education graduate  \[.650\] Valid
60 I can work within organizational demands as a technical education graduate  \[.613\] Valid
61 I have the ability to listen in order to understand organizational assumption as a technical education graduate  \[.650\] Valid
62 I have the ability to understand the values of organization within which I work  \[.706\] Valid

D Relationship management competencies

63 As a technical education graduate I can identify where one needs improvement and motivation  \[.677\] Valid
64 I can move others forward toward some vision, goals and strategies as a technical education graduate  \[.686\] Valid
65 As a technical education graduate I know the right persons whom to use in developing support  \[.673\] Valid
66 I have the ability to motivate others to give their best as a technical education graduate  \[.737\] Valid
67 As a technical education graduate I can persuade people to work according to my way  \[.712\] Valid
68 I have the ability to advise someone on how to achieve his/her goals as a technical education graduate  \[.758\] Valid
69 I have the ability of changing individuals’ decision as a technical education graduate  \[.746\] Valid
70 I can interact fluently to express myself when dealing with people as a technical education graduate  \[.723\] Valid
71 I have the ability to identify what other person want and use it to influence his/her decision as a technical education graduate  \[.728\] Valid
72 I have the ability to change individuals’ decision as a technical education graduate  \[.638\] Valid
73 I have the ability to communicate fluently to express myself in a crowd as a technical education graduate  \[.644\] Valid
74 I can constructively express my frustrations as a technical education graduate  \[.685\] Valid
75 I confidently express feelings when seeking for favours as a technical education graduate  \[.598\] Valid
76 I can effectively use body language to send a massage as a technical education graduate  \[.623\] Valid
77 I have the ability to tackle a complex situation as a technical education graduate  \[.713\] Valid
78 I manage conflicts to a level of agreement between dispute parties as a technical education graduate  \[.704\] Valid
I have the ability to manage others emotional outburst as a technical education graduate

I feel irritated by friends unwanted behaviour and be able to redress

I listen with keen interest when discussing progressive issues as a technical education graduate

I can be able to read someone emotional feelings as a technical education graduate

I can identify emotionally intelligent individuals through their emotional dispositions’ as a technical education graduate

I have the ability to read someone intent behaviour through mutual discussion as a technical education graduate

I can initiate important development within organizations as a technical education graduate

I can simulate changes for a positive future as a technical education graduate

I tune in to people’s feelings to move them to agree with my opinion as a technical education graduate

I can mutually change others decision to suit my needs as a technical education graduate

I can easily identify where change is needed as a technical education graduate

I know how to relate with individuals’ regardless of their socio-economic status as a technical education graduate

I have the ability to improve my relationship with my associates as a technical education graduate

I can use values to make appropriate decision as a technical education graduate

I have the ability to successfully worked with my colleagues as a technical education graduate

I have the ability to relate with subordinates as a technical education graduate

I have the ability to motivate others to partners with for progress as a technical education graduate

The table5.1 above shows the summary of the factor loading. The data reveals that 95 items had factor loadings that ranged from 0.598 to 0.790 and were above the factor loading of 0.50 at 10% over lapping variance with one component. The 95 items loading on one component represented the four components of conceptual model of Daniel Goleman (2002) of self-awareness, self-regulation, social awareness and relationship management. The strength of one component and the conceptual parsimony of the 95 items that loaded on the first component indicated that the 95 items were valid for the development of emotional intelligence competency scale (EICS) as a skills for employment in technical education in northern Nigeria. In general, 95 items are valid enough to be included in the emotional intelligence competency scale as a skills for employment in technical education in northern Nigeria. This finding agreed with Bakare (2014), Schutte et al. (1997), Giachino and Gallington (1977) that if content has no components of non – loading items, it is assumed that the factorial validity of the tasks or content is high.

Table 5.2: Reliability Statistics

<table>
<thead>
<tr>
<th>SN</th>
<th>Dimension/Construct</th>
<th>Cronbach's Alpha</th>
<th>Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Self-Awareness Competency</td>
<td>0.867</td>
<td>17</td>
</tr>
<tr>
<td>B</td>
<td>Self-Regulation Competency</td>
<td>0.809</td>
<td>32</td>
</tr>
<tr>
<td>C</td>
<td>Social-Awareness Competency</td>
<td>0.832</td>
<td>13</td>
</tr>
<tr>
<td>D</td>
<td>Relationship Management Competency</td>
<td>0.913</td>
<td>33</td>
</tr>
<tr>
<td></td>
<td>Total (Overall)</td>
<td><strong>0.958</strong></td>
<td><strong>95</strong></td>
</tr>
</tbody>
</table>

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The result of the analysis as presented in Table 5.2 shown the items’ Cronbach’s Alpha reliability coefficients of 0.867 for Self-Awareness Competency, 0.809 for Self-Regulation Competency, 0.832 for Social-Awareness Competency and 0.913 for Relationship Management Competency respectively. This parameters are considered satisfactory reliability because according to Hair, Anderson, Tatham & Black (1995) and Cohen et al. (2010), a Cronbach’s alpha scale of at least 0.70 is acceptable for the internal consistency reliability of the items and can therefore be accepted for study’s purpose. These criteria served as the guidelines in interpreting the internal consistency-reliability coefficients in this research.

6. Conclusion

Based on the literature review, the study identified the need for the development of precise instrument to measure emotional intelligence competencies as a skills requirement for the employment of technical education graduates in northern Nigeria, due to the absence of precise instrument for measuring emotional intelligence competency of technical education graduate in northern Nigeria, and that cause high rate of unemployment among the graduates. In consequence, the study successfully developed and validated the emotional intelligence competency scale and the scale which were found valid and reliable. Thus it could be considered for use in assessing emotional intelligence competencies as needed for employment of technical education graduates in northern Nigeria. Furthermore, the emotional intelligence competency scale developed should be used as a skills for employment of technical education graduates. It’s also recommended that, the developed emotional intelligence competency scale should be employed to use in schools and training centres for retrain technical education graduates and interested individuals at skill acquisition centres in northern Nigeria and the country at large.

References


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Biography
Ibrahim Haruna Bako is an assistant lecturer in Faculty of Engineering, Department of Electrical Engineering, Federal University Dutsin-Ma, Katsina state, Nigeria, a technical education (TVE) experts having Master’s degree in Industrial Technology Education (M.Ed.Tech. Electrical). Bachelor of Technology, in Industrial and Technology Education (B.Tech. Ed. Electrical) and National Certificate in Education (Technical) NCE Tech. Electrical, presently a PhD candidate in the field of Technical and Vocational Education, Faculty of Technical and Vocational Education, Universiti Tun Husseain Onn Malaysia.

Yusmarwati Yusof is a Senior Lecturer in Faculty of Technical and Vocational Education, Universiti Tun Hussein Onn Malaysia. She has completed her Ph.D. in the field of technical education at University of East London, U.K, in 2011. Yusmarwati Yusof has approximately 20 years of working experience in higher education sector and her passion for research and teaching will never end. She is actively participates in research projects and publications, as well as consultation at national and international levels, specifically in the field of Technical and Vocational Education and Training (TVET). Her research interests include both educational and technical aspects. Among them are; pedagogical approaches, instructional design, Building Construction and development, problem based learning, development of competency, social development and cultural exchange with concentration in indigenous people. Recent work has focused on developing model and framework for improving social economy among minority groups, with particular emphasis on indigenous people as well as study on emotional intelligence. Additionally, she is also a certified skill and vocational trainers, and a member of the Malaysian Board of Technologies. As part of the community, she believes that the ways we make sense of who we are and how we got here, helps to shape the societies we are striving to build.