

## **Boundless Collaboration**

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## **EAP Teachers' Assessment Literacy**

Raising Awareness and Guiding Development in Assessment Practices



## Presentation Content

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- Issues with ELA in EAP Programs
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## **English Language Assessment (ELA) in EAP Programs**

- Endemic in employment, international mobility, and in educational institutions (Fulcher, 2010)
- ELA acts as **filters to acceptance in tertiary education or pass cards** to continuation in such academic environments. Decisions taken are high-stakes for would-be students (Flowerdew & Peacock, 2001)
- ELA is **not just a measuring tool only**; it are expected to **foster educational growth** and enable **learners to benefit from the assessment experience** (Davidson & Lynch, 2002)
- ELA at English Preparatory Programs (EPPs) are meant to address criticism directed at large-scale international tests (Schmitt & Hamp-Lyons, 2015). Time constraints and the need to assess candidates from a wide range of educational backgrounds, in addition to their reductionist nature, make large-scale international tests present a limited sample of EAP genres
- ELA at EPPs can better represent the construct of academic language in use because they are context-bound and related to particular course objectives and goals (Schmitt & Hamp-Lyons, 2015



### **Issues with ELA in EAP Programs**

- Constrained by political, social, or financial issues (Schmitt & Hamp-Lyons, 2015)
- Many EAP programs use large-scale proficiency style exams to assess learners at the end of
  their programs to meet requirements imposed on them even though teaching and ongoing
  assessments are directly related to material or textbooks that are meant to develop learners'
  competence in accomplishing academic tasks
- Assessors need to balance their beliefs, learners' rights, and programs' needs to propose fair,
   valid assessments
- To perform such a challenging task, EFL teachers/assessors need to be armed with solid Assessment Literacy (AL)
- "Efforts to develop assessment literacy within EAP community itself are often fragmented, stop/start affairs" (Manning, 2013)
- Manning (2014) argued for a clear understanding of Assessors Assessment Literacy (AAL)



# Language Teachers Assessment Literacy (LTAL)



### **Early Definitions of TAL**

- □ The term AL was coined by Stiggins (1991) based on the assessment competence standards developed by the American Federation of Teachers (AFT), the National Council on Measurement in Education (NCME), and the National Education Association (NEA) in 1990. AL referred to the knowledge and skills that stakeholders need to acquire
- □ In 1999, Stiggins presented seven competencies that teachers need to acquire
- □ LTAL definitions were rooted in general education definitions of TAL, and no specific attention was given to it (Stabler-Havener, 2018).
- □ Different researchers tried to define LTAL; however, the reviewed literature revealed limited consensus on the definition and the set of knowledge and skills that constitute LTAL (Walters, 2010).
- □ Inbar-Lourie (2008a) defined LTAL as a language teacher's understanding and knowledge about language learning theories, classroom assessment practices and the effective use of this knowledge to gauge and improve students' learning by employing various assessment method and strategies.
- Davies (2008) stated that LTAL comprises three fundamental components, skills, knowledge, and principles. Skills referred to teachers' expertise in conducting various assessments, assessment writing, and evaluation. Knowledge represented their background knowledge about assessment, language learning theories, and classroom pedagogy. Finally, principles signified their conceptual and practical cognizance of assessment qualities, such as validity, reliability, washback, practicality, interactiveness and authenticity.



### (LTAL) Definition with a Socio-Cultural Dimension

- □ Fulcher believes that LTAL is not merely limited to acquiring specific knowledge, skills or competencies; it is formed on three levels. Teachers should first acquire theoretical knowledge and skills that enable them to practice assessment tasks in the form of designing and evaluating both classroom assessment and standardized ones; which he called the practice of language testing level. This level is guided by a higher level, which he called the principles level, in which teachers need to apply ethical consideration and codes of practice to their assessment practices. Teachers' knowledge, skills, principles, and ethics are informed by a third and higher level, in which teachers pay attention to contextual considerations that control their assessment practices, such as reasons for and impact of assessments practices in addition to considering historical, social, and political constraints that control their contexts.
- □ Willis et al. (2013) defined TAL as: a dynamic context-dependent social practice that involves teacher articulating and negotiating classroom and cultural knowledge with one another and with learners, in the initiation, development and practice of assessment to achieve the learning goal of students. (Willis et al., 2013:242). According to Willis et al. (2013), different assessment literacies are needed for different communities of practice, as they are different social groups (Hipwell & Klenowski, 2011).



## **The Study Adopted Definition**

LTAL would go beyond the traditional view of skills, knowledge, and cognition to culturally responsive practices through which teachers open up opportunities to negotiate their assessment identity/ literacy and practices within the learning community (Adie, 2010; Klenowski, 2009; Willis, 2010). Therefore, TAL would involve this vertical knowledge learned through official educational channels, whether theoretically or practically, and a horizontal knowledge, which is acquired through interaction with contextual practices and interaction with members of the same community in the form of reflection on oneself and others' actions and practices. However, this view assumes that LTAL requires continuous learning about new curriculum and assessment policies. This dynamically formed literacy is formed as a result of continuous development that happens due to continuous exposure to new trends in assessment and new contextual assessment practices and experience. Teachers are required to develop new repertoires continuously. It is not just a particular fixed set of capabilities.



# Language Assessment Literacy Models/Frameworks

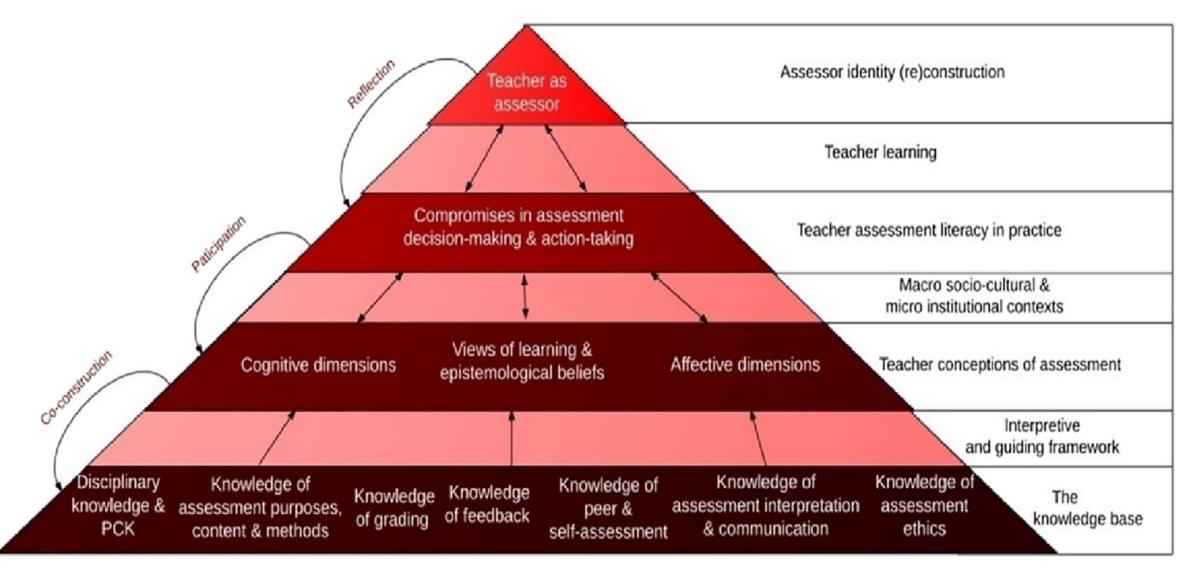
- □ A Five Component Model (Brindley, 2001)
- □ A Skill, Knowledge, and Principles Model (Davies, 2008)
- □ A Practice, Principles, and Contexts Model (Fulcher, 2012)
- □ LAL Stakeholders Profile Model (Taylor, 2013)
- □ Teacher Assessment Literacy in Practice (TALiP) Model (Xu & Brown, 2016)



# Teacher Assessment Literacy in Practice (TALiP) Model (Xu & Brown, 2016)

- □ Xu & Brown (2016) proposed a conceptual framework of Teacher Assessment Literacy in Practice (TALiP), which consists of six components: (1) knowledge base, (2) teacher conceptions of assessment, (3) institutional and socio-cultural contexts, (4) TALiP the core concept of the framework, (5) teacher learning, and (6) teacher identity (re)construction as assessors.
- According to the TALiP model, TAL is built on three primary levels. On the first level, teachers are expected to master educational assessment knowledge, which includes the fundamental principles of assessments ("what", "why", and "how". The knowledge base consists of disciplinary knowledge and pedagogical content knowledge, knowledge of assessment purposes, content and methods, knowledge of grading, knowledge of feedback, knowledge of assessment interpretation and communication, knowledge about student involvement in assessment, and finally knowledge of assessment ethics.
- On the second level, teachers are expected to develop an assessment awareness, which is their perception of how assessment should be. This awareness is developed as a result of two interactions, one between teachers' assessment knowledge base and their conception of it, and the other between teachers' assessment knowledge base and their contextual domains whether internal or external.
- On the third level, a more advanced assessment awareness level is acquired through a self-directed approach and development of one's own identity as an assessor. This level will enable teachers to accommodate assessment policies and at the same time, reflect on their assessment practices to gain new insights. This model suggests different dynamic assessment literacies among various contexts; however, there are possible chances of having regularity and generalisations about how TALiP is developed, advanced and understood that could apply to all teachers across various contexts (Xu & Brown, 2016).





A conceptual framework of teacher assessment literacy in practice



## Research Context Description



#### **Context**

- □ EAP program in one university in the Middle East.
- Learners need to provide evidence of English language proficiency before starting their undergraduate courses
- Medium of Instructions is English.
- □ A preparatory year learning EAP delivered into two levels; fifteen weeks each.
- □ The goal is to develop the learners linguistically and academically to perform competently when joining their academic disciplines.
- □ Learners need to show competence in English and awareness of academic features before joining their majors through different assessments conducted throughout the year.



#### Learners

- □ High school graduates aged between 18 and 19
- □ English is not their first language
- □ Brought up in education systems, in which English is taught in a traditional way that emphasizes grammar instruction and practices, in addition to vocabulary memorization.
- □ Little attention is paid to language use and communication, which is why learners find the program challenging



## **Syllabus**

Three language modules throughout the entire academic year.

- □ Academic reading, listening, and presentations, in addition to academic vocabulary, in one module.
- □ In the second module, the learners are introduced to academic writing; they practice writing sentences, academic paragraphs, and essays, in addition to summarizing, paraphrasing, and referencing.
- □ In the third module, the focus is on English grammar to develop their understanding of grammar rules to support their reading, listening, and writing performance. The course adopts varied progressive and integrated teaching methods, approaches, and techniques.



#### **Instructors**

- □ Diverse backgrounds / Experienced in teaching (EFL/ ESL/EAP)/ Worked in different countries
- □ Qualified academically (Master's holders with at least five years of teaching experience)
- □ It is a collaborative teaching model; each teacher is assigned one module to teach
- They are engaged in continuous professional development opportunities through annual workshops and seminars provided by the team leaders and supervisors
- □ These workshops aim to emphasize the program's teaching philosophy and practices
- □ The teachers are excluded from assessment preparation, design, and construction
- □ The assessment tasks are assigned to the modules' team leaders, who are excluded from teaching



### The Adopted Assessment Approach

#### Mid-term and Final exams

- □ Exams focus on assessing vocabulary, grammar, reading comprehension skills, and writing skills.
- Items assessing grammar and vocabulary are in the form of multiple-choice questions.
- □ Reading comprehension is assessed through multiple-choice or true/false
- Writing is assessed through questions assessing sub-writing skills; learners are asked to write paragraphs or short essays, on which they are trained in advance.
- □ Speaking skills are assessed through oral presentations, which learners are expected to present in class. The topic of each presentation is given in advance to the learners to prepare
- □ Learners' listening skills are assessed through multiple-choice, true/false, and fill in the blank questions
- □ Learners' attendance and participation in activities are taken into consideration while calculating the overall passing grade for each semester



## The Participants (The Assessors)

- □ The participants are the modules' team leaders, who are selected by the program lead to perform all required assessment tasks.
- □ They are engaged in assessment design and administration guided by the program's adopted assessment philosophy, strategies, goals, and practices.
- □ All assessors were previously engaged in teaching before being selected as assessors.
- They are academically prepared to teach EFL/ESL/EAP.
- □ They received the same institutional periodic training focusing on the institutional adopted teaching and learning philosophies.



# The Relation between the Researcher and the Participants

- □ The researcher does not have any authority over the participants; their participation in the current research is voluntarily guided by their interest in the topic.
- The relation between the researcher and the participant is framed by collegiality, mutual respect,
   and common interest in the same topic
- □ The aim is to develop understanding of the observed problem and possibly develop assessment literacy at least on the conceptual level; this opportunity can help reflect on current assessment literacy to take further development steps on the practical level.



# Rationale Behind the Study



#### **Contextual Rationale**

- □ Assessments depend mainly on tests.
- □ Outcome is not like the ones they are expected to produce in their academic disciplines
- The items do not engage learners in problem-solving, predicting, reflecting, creating, interpreting, investigating, or applying knowledge to new situations.
- □ The Items are limited to engaging learners into simple learning experiences, such as recalling, answering, recording, organizing, making choices, and transforming
- □ The adopted assessments do not include authentic performance tasks that require learners to use language to perform academic tasks
- □ Learners are not given a chance to comment on their work or their peers' work
- □ No feedback is given to the learners to close the gap between their performance after assessment and the target performance
- □ All that the learners receive are scores, which can foster the fear of failure, depress creativity, weaken students' interest, and emphasize quantitative aspects of learning



#### **Theoretical Rational**

- □ "The development of EAP assessment theory has been left in the hand of language testers even though it is EAP practitioners who devise and administer most of the EAP assessment going on around the world" (Schmitt, Hamp-Lyons, 2015:3).
- □ Practices, perceptions, and beliefs of EAP practitioners about assessment are under-explored, under-defined, and under-theorised; therefore, it can be claimed that EAP practitioners have contributed little to theory-building or establishment of an understanding of EAP assessment practices.
- Most of the research conducted on EAP assessments was associated with standardized exams, while research conducted on in-house EAP assessments is under-represented
- □ It can be concluded that "voices of teachers as EAP assessment developers are not being heard outside their community" (Schmitt, Hamp-Lyons, 2015:3).
- □ The mainstream assessment textbooks focus mainly on large-scale tests and general classroom assessments
- □ Two problems, One is isolation between EAP communities and language testing and assessment communities, and the other is insufficient Knowledge of EAP practitioners' AL.



#### **Professional Rationale**

- □ Earlier studies focused on defining TAL (Brookhart, 2011; Popham, 2011; Stiggins, 1999)
- □ Another stream of studies focused on measurement tools of TAL to judge them as being literate or illiterate (Campbell et al., 2002; Jarr, 2012; Mertler, 2003; Plake et al., 1993)
- □ The third group of studies focused on teachers' assessment education (Bailey & Brown, 1995; Brown & Bailey, 2008; Greenberg & Walsh, 2012), teachers' continuous assessment development (Graham, 2005; Sato, Wei & Darling Hammond, 2008), and teachers' assessment needs to provide them with appropriate training based on their needs (Fulcher, 2012; Hasselgreen, Carlsen, & Helness, 2004; Vogt & Tsagari, 2014)
- □ Some of these studies viewed Language Assessment Literacy (LAL) as a kit that could be used in any situation. They ignored the behavioral/ contextual aspects that interferes in shaping TAL
- Attention should be paid to the socio-cultural, dynamic, and complicates nature of TAL
- □ This socio-cultural view of AL gives teachers a voice and involvement in APs (Shohamy, 2001), it also bridges the gap between theory and practice; besides, it shows that AL is dynamic and changeable from one context to another



## Aim and Scope of the Study

- □ The purpose of the current study is to understand, reconceptualize, and possibly develop eight EAP teachers'/ assessors' assessment literacy in practice. Exploring TAL could provide an understanding of their assessment awareness and if their APs are informed by solid assessment knowledge or not. Understanding the source of existing APs can guide assessment improvement and development in the described context.
- □ This empirical research uses a conceptual framework of teacher assessment literacy in practice (TALiP) proposed by Xu & Brown (2016) as an operational model for researching and exploring TAL in an EPP in one private university in Kuwait.



## Research Questions

#### The study seeks answers to the following questions to fulfil the research purpose:

- 1.A How were the assessors prepared for their assessment tasks?
- 1.B How are the assessors involved in assessment tasks in their teaching context?
- 2.A How confident are the assessors with the assessment knowledge base suggested by the TALiP framework?
- 2.B What are the assessors' views regarding their need for different assessment knowledge base components suggested by the TALiP framework?
- 3.A How are assessments practiced in the assessors' teaching context?
- 3.B What are the assessors' views about their context-adopted assessment practices?
- 4. How can the assessors negotiate between their views about assessments and their context-adopted assessment philosophies and practices?
- 5. How far have the assessors' assessment literacies been developed as a result of taking part in the research?



## Research Methodology

#### Paradigm:

An interpretive approach informed the current study. According to an interpretive view, the research aim is to understand and explain explored phenomena as per the interpretations of the participants (Cohen et al., 2007:19) as the existence of social phenomena is not independent of their performances

#### **Research Methodology:**

I adopted exploratory practice principles suggested by Allwright (2005), where the emphasis is on understanding and development of the studied phenomenon in its context and by its actors. I explored the assessors' AL with the aim of understanding and development by engaging them in a professional dialogue.

#### **Data Collection Method:**

I chose self-reporting as a method for exploring the assessors' conceptions, beliefs, views, and reflection. In self-reporting, "respondents are asked to report directly on their behaviors, beliefs, attitudes, or intentions" (Holbrook, 2008:2), unlike other research methods, where the participants are subjected to observation or controlled experiments. The current study used three types of self-reporting methods: direct self-reporting, indirect self-reporting, and open-ended self-description.

#### **Participants:**

Eight experienced assessors, who were involved in assessment decision-making were chosen to guarantee that their knowledge is relevant to the topic under investigation,



## **Data Collection Tools**

- A Questionnaire with Open-Ended Questions: was used to collect qualitative data about the assessors'
  assessment formal/informal preparation and their assessment roles in their teaching context; and therefore,
  provide answers to the two components of the first research question.
- A Structured Interview with an Open-Ended Checklist: An open-ended checklist was used to elicit verbal qualitative data about the participants' confidence level (high, medium, low) with and need for the assessment knowledge base suggested by the TALiP model. The participants were also requested to justify their choices. The collected data from the checklist would give answers to the second research question with its two components. The checklist was designed in a way that reflects TALiP (Assessment knowledge Base).
- A Semi-Structured Interview with Open-Ended Questions: was conducted with the eight participants to elicit information about their context-adopted APs and their beliefs about these practices. Data collected from the interview would provide answers to the third research question with its two components.
- A Structured Interview with an Open-Ended Report: was used to collect data on how the participants
  negotiate between their views about assessments and their context-adopted APs. I divided the report
  template into themes that reflected the assessment components explored in the previous semi-structured
  interview
- An Unstructured Interview: was used to elicit information on how the participants' AL was developed as a
  result of going through the TALiP levels and taking part in the current exploratory study, and therefore provide
  answers to the fifth research question.



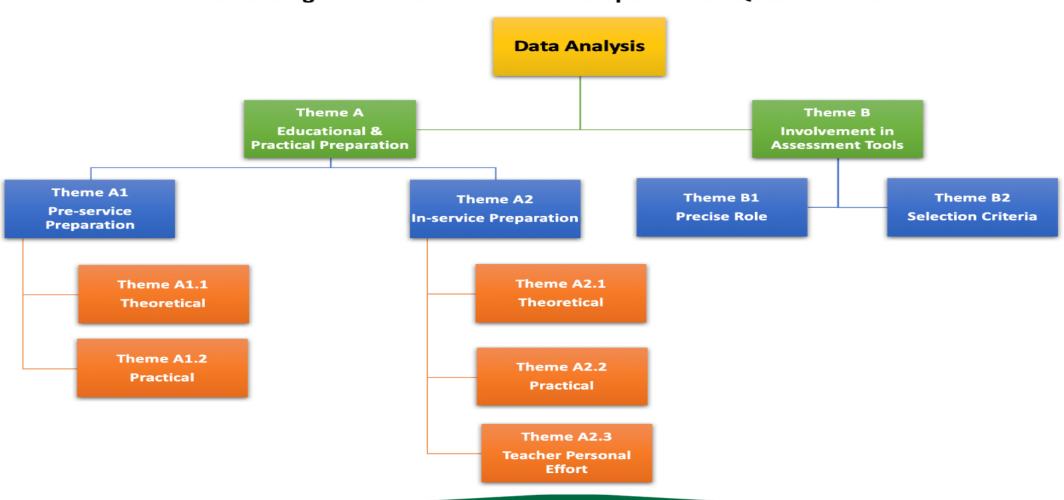
## Data Analysis

The analysis process involved transferring the collected raw data into findings that required interpretation (Wahyuni, 2012). **Content analysis** was adopted in analyzing the five collected texts for each participant through identifying **patterns** and themes within data, which is referred to as thematic analysis (Given, 2008).



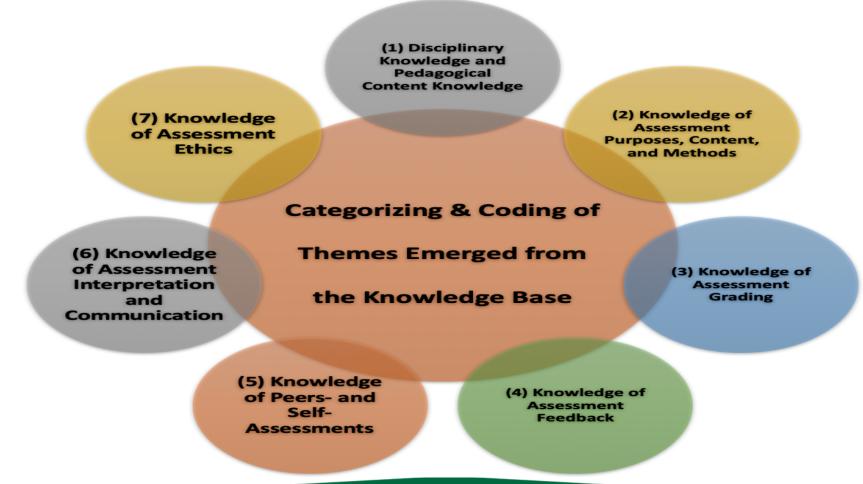
### **Analysis Conducted on Data Collected from the**

Thematic Coding of Data Collected from the Open-Ended Questionnaire



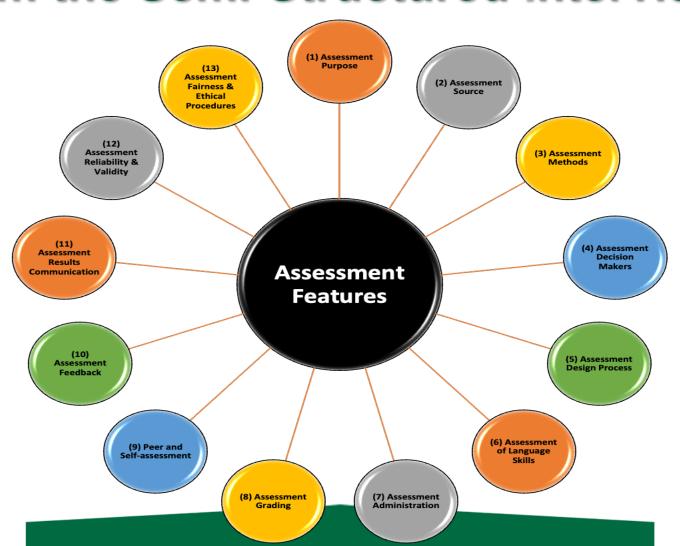


## Analysis Conducted on Data Collected from the Open-Ended Checklist





# Analysis Method Conducted on Data Collected from the Semi-Structured Interview





# Analysis Method Conducted on Data Collected from the Report

□ The audio recorded data for each participant were transcribed in a separate word document. The data in the word document were categorized into thirteen themes equivalent to the ones in the original report and specified in figure 3.3. Each theme was coded with a number; there were 13 codes in each document numbered from 1-13. The thirteen categorized, coded data were transferred from each participant's word document to a soft copy of his/her report, where it was added to the third empty column of each report; each coded data was added in front of its equivalent theme number. By the end, each participant had a complete report with three columns, one for what he/she reported about his/her context-adopted assessment component (theme), one for his/her belief about each component, and a third for a solution he/she reported for each assessment component.



# Analysis Method Conducted on Data Collected from the Un-Structured Interview

Thematic Categorizing and Coding of Data Collected from Unstructured Interview

**Assessment Literacy** 

**Development Resulting** 

from Experience with:

(1) Open-Ended Questionnaire

(2) Open-Ended Checklist

(3) Semi-Structured Interview

(4) Open-Ended Report

(5) The Whole Research Study

(6) Reflection on Future Decision



# Research Findings



#### **First Research Question**

#### Question 1.A How are the assessors prepared for assessment tasks?

• The findings showed some **limitations with the participants' formal and informal preparation for their assessment tasks**. The participants were not adequately prepared theoretically or practically during their pre-service or in-service phases for their current assessment tasks.

#### Question 1.B How are the assessors involved in assessment tasks in their teaching context?

The participants are intensively involved in assessment tasks. Their involvement in assessment decisions in the described context is of high stake. They are almost responsible for all assessment decision-making and practices, including methods, design, administration, grading, communication, and announcement. These intensive roles require them to be highly assessment literate teachers (Taylor, 2013). However, their selection for the mentioned assessment role was not based on their knowledge of and skill in assessment; it was done based on administrative criteria that did not take into consideration their assessment competence or literacy. The selection criteria adopted in the described context does not match the criteria or standards set for teachers to perform assessment tasks. Teachers should be chosen based on their high competence at and confidence with assessment knowledge and skills (Brookhart, 2011).



#### **Second Research Question**

Question 2.A How confident are the assessors with the assessment knowledge base suggested by the TALiP framework?

It is inferred that at least seven of the eight participants lack confidence with the assessment knowledge base proposed by the TALiP framework. First, this lack of knowledge is attributed to limited theoretical and technical preparation, which the participant's themselves reported as an answer to question 1. A.

Question 2.B What are the assessors' views regarding their need for different components of assessment knowledge base suggested by the TALiP framework?

It is inferred that the participants showed the need for almost all theoretical and practical aspects of all components of the assessment knowledge base.



#### **Third Research Questions**

#### Question 3. A How are assessments practiced in the assessors' teaching context?

The assessment philosophy underpinning the described context APs is influenced by an assessment philosophy focusing on assessment of learning to evaluate learners' achievement of pre-set learning objectives through different summative assessments. Although the context adopts different assessment methods, they are used in a summative manner for scores collection and not for formative reasons.

# Question 3.B What are the assessors' views about their context-adopted assessment practices?

The participants' **conceptual awareness** of adequate APs, complexities, and threats was **strong enough** to enable them to reflect on their contextual practices competently. They showed a solid awareness of contemporary reforming assessment practices in assessment literature. This **awareness is informed by their experience**, **daily experience with teaching and assessment**, **and their reflection on surrounding practices**. If the participants were more confident with the assessment knowledge base, and they were academically and practically prepared, they would have revealed more expanded knowledge and more critical views.



#### **Fourth Research Question**

### Question 4. How can the assessors negotiate between their views about assessments and their context-adopted assessment philosophies and practices?

- The participants succeeded in providing compromises, which resonate with recommendations of research conducted on AL (McMillan, 2003). They suggested adopting an assessment philosophy, which focuses on integrating assessment with learning by focusing on what learners can produce with their acquired knowledge, not their ability to reproduce what they learned. They also suggested providing constructive descriptive feedback on learners' performance
- □ They suggested **depending on internally-mandated formative assessments** using **different assessment tools** such as, task-based assignments, projects, academic activities, portfolios for writing, interviews for listening, which can assist them in achieving their assessment philosophy.
- □ They supported depending on **task-based activities** to teach and assess learners' integrated skills. They also suggested **incorporating peer and self-assessments** as central tools for assisting learners in noticing their weakness and improve independently

Although the participants provided solutions that can solve problems, which they reported in their context, they emphasized that they need guidance and assistance to validate their assessment practices through a professional committee that can provide them with ongoing training and feedback on their assessment practices. This need is attributed to their limited preparation and confidence with the assessment knowledge base, which affected all other components of their AL.



#### **Fifth Research Question**

Question 5. How far have EFL teachers'/assessors' assessment literacies been developed as a result of taking part in the research?

It is inferred that the **participants' AL has developed** to a certain extent as a result of taking part in all stages of the current study at least on the conceptual level.

As reported, taking part in the research raised the participants' awareness of assessment concepts and practices and made them confident with some APs they used to practice intuitively. It also changed some rooted assessment beliefs and provided them with new ideas that could be implemented in their contexts. In addition, it provided them with an opportunity to self-evaluate and revise their practices. Most importantly, it uncovered a lack of specific knowledge and skills and gave them a voice to utter what they need regarding all proposed concepts and skills.



#### Research Conclusion

Analyzing the findings of the five research questions, I believe the proposed answers succeeded in fulfilling the research purpose, which was focused around exploring and possibly developing TALiP as per the adopted TALiP framework. I believe going through these stages contributed to identifying the participants' assessment identity, which was one main concern of the current study, in addition to uncovering the context-adopted assessment philosophies. I believe this identification shed light on the source of the observed assessment problem in the described context, which was the primary rationale behind conducting the current study.



#### Research Recommendation

- Conducting a comparative research study involving other similar programs using the same approach. Comparing TAL in these programs could help researchers reach general boundaries or parameters of EAP assessors' AL required for this kind of programs. These parameters would guide training courses targeting teachers/assessors. EAP practitioners need a practical guide on how to perform their assessment tasks. The outcome of such projects would fill the gap in EAP assessment literature and provide solid practical knowledge and skills for EPP assessors because they are rooted in and derived from real educational contexts with all its complexities and variables.
- □ Including theoretical and practical assessment training as a central component of teacher education and the main component of their teaching license. Assessment courses for teachers should not be kept as electives or be excluded from education or training programs.
- Assessment roles should be given to language teachers based on their proven useful knowledge and skills in assessment, whether through accredited bodies, certifications, or skill assessment. Designing, grading, and interpreting learners' assessments should be in safe hands, as it is not only a professional duty; it is an ethical one that is meant to implement justice and equality among learners.



### Research Limitations

- □ The study was not questioning international standardized language assessment; it only focused on classroom-based assessments.
- □ It focused on exploring the assessors' assessment literacy only; no other teachers were involved in the current study
- □ It would have enriched the study and its findings if the other teachers and learners were given a chance to take part in this study. Involving other teachers, who were not involved in APs, and learners to explore their views about the observed APs would have given more validation to the observed problem, but due to practical and administrative issues, I was not allowed to discuss or collect data from the learners
- Involving the management's beliefs in the study about the observed APs would have added a different lens to the study, especially regarding imposed practices and justifications for adopting them. This involvement would have created a channel of communication.
- □ Conducting the study as a study group involving all assessors together in each stage would have enriched the study and resulted in more fruitful discussion and argument; however, due to practicality, work nature, and ethical consideration I could not adopt this practice.



# Discussion & Questions



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