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# DEVELOPING AND VALIDATING A MODEL MEDIATING THE IMPACT OF THE ABROAD TRAINING AND THE SAUDI PUBLIC EMPLOYEES CREATIVITY

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Key Words: Develoing A Model, Abroad Training, Public Workforce, Saudi Arabia, CreativityOf The Employ, Abroad Training Quality, Impact Of Mediator.

#### ABSTRACT

This research adopts a scientific approach to determine the impact of involving abroad training quality as a mediator between the constructs of the abroad trainee factors and abroad training factors and the creativity of Saudi public employees who attend at least one training session. The training was held in Istanbul, Dubai, and Kuala Lumpur in 2018, and an equal probability random sampling technique was adopted by involving all recipients of the training sessions whose net number was 385 respondents. Data collection was performed by either direct collection or an online survey. A questionnaire was based on previous studies and tested for validity and reliability by using content validity, face validity, and pilot study. Data obtained from the survey was analyzed by utilizing the software Statistical Package for the Social Sciences (SPSS 22) and SmartPLS 3.0. The results have shown that half of the six sub-hypotheses was supported when training did not consider AT. However, when AT was involved, only one sub-hypothesis was rejected, and the other five sub-hypotheses were supported. Moreover, when the impact of AT on EC was directly tested, it was found supported; however, with a weak association (0.330) compared with the corresponding association under AT involvement (0.803). The result could play an important role in setting future abroad training sessions as the involvement of a mediator makes a big difference in the achievement of the employees that would benefit the organizations where employees were coming from.

### **INTRODUCTION**

Creativity is one of the most parameters that organizations are adopting to enhance the outcome of the organization regardless of the nature of these organizations (Bryson, 2018). To achieve such an outcome, organizations are deemed to appoint high-level workers.

However, as the technology and the rising demands grew and become complicated, workers found themselves in a dilemma unless refreshing their ability to be able to deal with the new updates. Training comes now to fill the gap where employees are spending sometimes in training sessions and back to their organizations equipped with power (Edmondson, 2018). Training can be performed within the organization premises, in the country where employees are residing, or abroad. Each of these three types of training has its features; however, some features are intersecting with each other making, occasionally, the organization hard to decide which direction should follow. Training could also be seen as an intensive factor that should be provided to employees to enhance their performance by widening their vision and internal ability (Gilal et al., 2019). Besides, individuals including employees might be influenced by outside aspects such as competing with others, recognition, or preventing criticism. The extrinsic factors can be divided into passive and active strategies (Muñoz-Doyague et al., 2008).

Training is a very complicated process not in preparation only, but also in each step of the long journey from selecting the right trainees, the right trainers, the period of training, location, and the given materials during training (Earley& Peterson, 2004). Imagination motivates employees to get a competitive benefit; team communication has ended up being an essential factor in contextualizing the creative process; comprehending impacts individuals by how wide knowledge could be; and creativity develops social influences towards playing a role (Yeh, 2004).

The training evaluation is another complicated matter; however, there are several attempts for this evaluation as proposed by McCracken & Wallace (2000) who proposed a model that includes three steps including determining needs, objectives, and subject content; selecting participants, resources, schedules, technology, and trainers; and, coordinating the program and evaluation.

In this paper, abroad training was adopted for training employees from the public sector in Saudi Arabia who performed their training in Malaysia, Turkey, and United Arab Emirates -all outside the native country. The study measures creativity by developing a model that introduces abroad training as a mediator factor that links the independent variables of the training environment and trainee environment and the dependent variable of the creativity of the employees.

## MODELS

### Evaluating models

Evaluating the transfer of training requires measuring behaviour by a testing performance with observation (Dias &Seabra, 2017). There is an adverse consequence for providing training by creating resistance to change in the organization (Bisogno&Vaia, 2017) because of reservations about the knowledge gained by trainees or y implementing new techniques in the organization, or because of mismatching of new knowledge and old technology within the workplace. Despite, evaluation of training has been widely implemented for a quite long time (Shmueli et al., 2019).

In the late 1960s, a model to measure education outcomes was proposed under the following foundations: Context, Input, Process, and Product (CIPP) (Stufflebeam, 2003). CIPP model identifies the training requirements, opportunities, and objectives. The CIPP model includes ultimate outcomes that can characterize the organization's performance or business results. About a decade later, another model was proposed with the following four foundations: Context, Input, Reaction, Outcome (CIRO) (Warr et al., 1970). CIRO model, similarly to CIPP model, identifies training needs from an organization's perspective and setting training objectives for evaluation. These models focus on criteria such as stakeholder perceptions, learning gain, onthe-job performance improvement, and return on investment (ROI). Recently, Cameron & Green (2019) explored four levels to evaluate training: Reaction (written response), learning (increase knowledge), behaviour (transfer of knowledge), and results (measure reactivity). A fifth level was added by Phillips et al. (2016) by incorporating return on investment. In 2012, Bell &Stellingwerf (2011) introduced a model for evaluating planning and conducting independent training evaluations through which clients' performance was evaluated. The evaluation relies on measuring participant knowledge and competencies after receiving training; however, they presented the influence of the cost and the benefits of training investment. Thus, training effectiveness includes an organizational focus on employee performance and organizational goals, such as return on investment, changes in productivity, quality improvement, customer satisfaction, and market share (Burrow & Berardinelli, 2003).

Whilst level four (organizational performance) is an important indicator of training effectiveness, it is difficult to establish direct relationships between training interventions and organizational performance measurements (Burrow &Berardinelli, 2003). Evaluation criteria, therefore, concern learning gain, that is, acquired competencies and attitudes, and on-the-job performance improvement through changed behavior and work patterns, or training transfer. If trainees improve their job performance (skills, knowledge, and attitude) they can improve performance and contribute to organization performance (Burrow &Berardinelli, 2003; Phillips et al., 2016).

### Existing models

There are several models that were developed over time for various reasons and to sut different purposes. The common aim of this model is to measure the creativity which appears under different terms. The importance of these model lies in the methodologies created to serve specific aim. Table 1 includes the most important of these models highlighted with suitable reference.

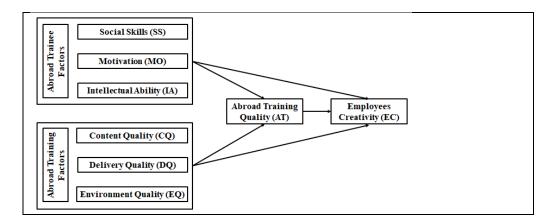
Table 1 Existing models	for measuring creativity
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No	Model/Year	Details (Description and Aims)	Founder
		<ul> <li>Measures employee creativity</li> </ul>	Amabile,
1		by linking practice, motivation, and	(1996);
	Componenti	creative process.	McClelland,
	al Model of	• Produces creative ideas that	(1967),
1	Creativity(1	influences the cognitive styles and	Jaccard&
	967)	work styles.	Jacoby,
		<ul> <li>Includes intrinsic and</li> </ul>	(2019)
		extrinsic motivation	
		• fills the gap in customer	Brady &
		satisfaction and enhances the	Cronin
	Service	efficiency and quality of services.	(2001);
	Quality	<ul> <li>Represented by different</li> </ul>	Pollack
2	Model(2001	dimensions depending on the service	(2009);
	)	sectors.	Gronroos,
	,		(1984); Rust
			& Oliver
			(1993)
		Built on disconfirmation	Gronroos
	N	paradigm by adopting three	(1984); Rust
3	Nordic Model(1984	components of services: product,	& Oliver
5		<ul><li>delivery, and environment.</li><li>model was refined to include</li></ul>	(1993)
	)	measuring technical and functional	
		quality.	
		• Covers the weakness of	Parasuraman
		Nordic model by offering a new way	et al., (1985)
	SERVQUA L Model(1985	of measuring service quality.	, ()
4		<ul> <li>Includes 5 dimensions:</li> </ul>	
		Reliability, Responsiveness,	
	)	Assurances, Empathy, and	
		Tangibility	
		• Model was developed based	Cronin
	SERVPERF	on empirical studies of banking, pest	&Taylor
5	Model(1992	control, dry cleaning, and fast food	(1992)
5		service.	
	)	<ul> <li>Marketing literature supported</li> </ul>	
		performance-based measures.	
6	Multilevel	• Model was developed as a	Dabholkar et
Ľ	Model(1996	reaction to the inconsistent of	al. (1996)

	)	SERVQUAL factors.Modelsuffersfromgeneralization and was built on sub- dimensions.	
7	Hierarchical Model(1985 )	<ul> <li>Model was proposed by combining four models.</li> <li>Model includes Interaction Quality, Physical Environment Quality, and Outcome Quality</li> </ul>	Cronin (2001);

## FRAMEWORK

Figure 1 illustrates the framework for this paper that is constructed from two independent variables (abroad trainee factors and abroad training factors), dependent variable (employee creativity), while the abroad training quality acts as a mediator. The model assesses the direct relations between trainee and training factors and training quality and the second set of relationships is the direct relations between training quality and individual creativity.



### Figure 1 Framework

## **RESEARCH METHODOLOGY**

## Research design

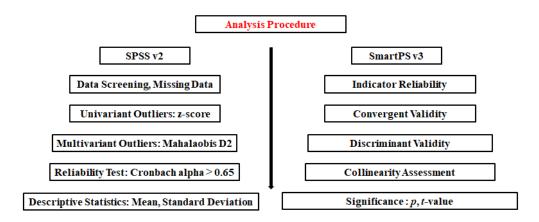
The quantitative analysis technique was adopted to acquire the finding of data collected from Saudi trainees in Kuala Lumpur, Dubai, and Istanbul. The collection of the data was subjected to a meta-data, verification, and validation, statistically analyzed by Smart-PLS for hypothesis and developing a model.

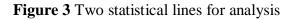
## Sampling technique

The sample chosen includes all Saudi public workers who physically attended the training from 380 trainees during the year 2018. Each trainee has the same chance; therefore, the technique is random sampling. Trainees were approached either directly (Malaysian Center) or by returned-stamped mail (Dubai and Istanbul). The study adopted a questionnaire of 8 sections in addition to the demographic section.

### Analysis technique

Figure 3 shows the two statistical lines which include SPSS (v2) and SmartPLS (v3). In each line of statistical analysis, steps were arranged chronically such that each following step depends on the previous step.





### **Research hypotheses**

Based on the framework shown in Figure 1, a set of hypotheses was proposed outlining the relationship between the constructs of the framework (Bryman& Bell, 2015). It is worth saying that the framework has been constructed according to previous studies (Bryman& Bell, 2011). This research discusses training quality and employees' imagination and recommended a design with the best-proved variables and connections. The model is assessing two outcome variables Abroad Training Quality (AT), Employee Creativity (EC) via two dimensions of antecedents Trainee Factors (Trainee Social Skills, Trainee Motivation, Trainee Intellectual Ability), and Training Factors (Content Quality, Delivery Quality, Environment Quality). In the original work, there are many proposed hypotheses; however, for this study, only the following hypotheses are applied, as shown in Table 2:

Table 2 Proposed hyp	potheses
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Нур	Sub- hyp	Details				
	H01a	There is a direct influence of SS on the EC of Saudi				
		Arabia public workforce.				
H01	H01b	There is a direct influence of MO on the EC of Saudi				
		Arabia public workforce.				
	H02c	There is a direct influence of IA on the EC of Saudi				

		Archie muhlie workforme	
	1100	Arabia public workforce.	
	H02a	There is a direct influence of CQ on the EC of Saudi	
H02		Arabia public workforce.	
	H02b	There is a direct influence of DQ on the EC of Saudi	
1102		Arabia public workforce.	
	H02c	There is a direct influence of EQ on the EC of Saudi	
		Arabia public workforce.	
H03		There is a direct influence of AT on the EC of Saudi	
1105		Arabia public workforce.	
	H04a	There is a direct influence of SS on abroad training factor	
		(AT).	
110.4	H04b	There is a direct influence of MO on abroad training	
H04		factor (AT).	
	H04c	There is a direct influence of IA on abroad training factor	
		(AT).	
	H05a	There is a direct influence of CQ on abroad training factor	
		(AT).	
	H05b	There is a direct influence of DQ on abroad training factor	
H05		(AT).	
	H05c	There is a direct influence of EQ on abroad training factor	
		(AT).	
	H06a	There is indirect influence of SS on EC of Saudi	
	11000	workforce mediating by abroad training (AT).	
	H0b	There is indirect influence of MO on EC of Saudi	
H06	1100	workforce mediating by abroad training (AT).	
	H06c	There is indirect influence of IA on EC of Saudi	
	11000	workforce mediating by abroad training (AT).	
	H07a	There is indirect influence of CQ on EC of Saudi	
	1107a	workforce mediating by abroad training (AT).	
	H07b	There is indirect influence of DQ on EC of Saudi	
H07	11070		
	H07c	workforce mediating by abroad training (AT). There is indirect influence of EQ on EC of Saudi	
	п0/С		
		workforce mediating by abroad training (AT).	
H08		There is influence of mediating factor (AT) on EC of	
Saudi Arabia public workforce.			

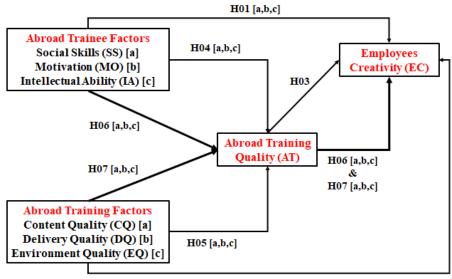


Figure 2 Proposed model

H02 [a,b,c]

### FINDINGS AND ANALYSIS

### Reliability and validity

Reliability and validity of both inner (relations between items) and outer (relations between items and latent variables) model assessments are provided by Smart PLS (Hair et al., 2019). The process requires testing outer loading (Figure 4a) and t-test (Figure 4b).

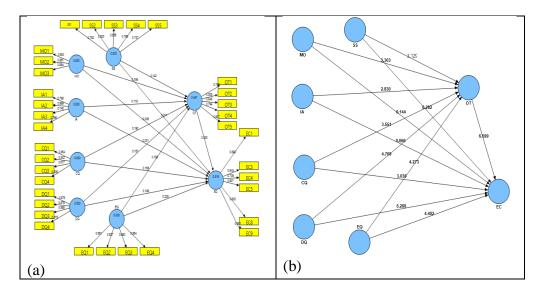


Figure 4 Statistical results (a) Outer loading and (b) t-test

## Hypotheses testing

Hypotheses testing are a technique used in social studies to accept or reject the proposed hypothesis. The critical factors in hypothesis testing are the path

coefficient that represents the strength of association between the variables under test in addition to confirming the direction of the hypothesis (Milošević et al. (2015). The second factor is the significance of the measured variable, which is normally taken at a p-value of equal or less than 0.05 (Tarhini et al., 2017). Table 3 depicts the statistical results of testing hypotheses.

 Table 3 Proposed hypotheses

Нур	Sub- hypot hesis	Influence Direction	Path Coeffici ent	Stand ard Dev	t- Statisti cs	p- Valu e	Status
H01	H01a	$SS \rightarrow EC$	0.011	0.039	0.204	0.071	Suppo rted
	H01b	$MO \rightarrow EC$	-0006	0.046	0.138	0.445	Reject ed
	H02c	$IA \rightarrow EC$	0.011	0.044	0.701	0.242	Reject ed
H02	H02a	$CQ \rightarrow EC$	0.168	0.054	3.087	0.041	Suppo rted
	H02b	$DQ \rightarrow EC$	0.198	0.039	5.046	0.012	Suppo rted
	H02c	$EQ \rightarrow EC$	0.012	0.054	4.146	0.065	Reject ed
H03		$AT \rightarrow EC$	0.330	0.050	6.607	0.015	Suppo rted
H04	H04a	$SS \rightarrow AT$	0.142	0.048	2.955	0.000	Suppo rted
	H04b	$MO \rightarrow AT$	0.156	0.050	3.139	0.031	Suppo rted
	H04c	$IA \rightarrow AT$	0.119	0.044	2.736	0.013	Suppo rted
H05	H05a	$CQ \rightarrow AT$	0.090	0.053	3.588	0.081	Reject ed
	H05b	$DQ \rightarrow AT$	0.187	0.041	4.587	0.009	Suppo rted
	H05c	$EQ \rightarrow AT$	0.188	0.050	7.751	0.015	Suppo rted
H06	H06a	$SS \rightarrow AT \\ \rightarrow EC$	0.047	0.039	2700	0.023	Suppo rted
	H0b	$\begin{array}{c} MO \rightarrow AT \\ \rightarrow EC \end{array}$	0.052	0.046	2.821	0.028	Suppo rted
	H06c	$IA \rightarrow AT \rightarrow EC$	0.039	0.044	2.503	0.016	Suppo rted
H07	H07a	$\begin{array}{c} CQ \rightarrow AT \\ \rightarrow EC \end{array}$	0.003	0.054	3.150	0.085	Reject ed
	H07b	$\begin{array}{c} DQ \rightarrow AT \\ \rightarrow EC \end{array}$	0.062	0.039	3.752	0.010	Suppo rted

	H07c	$\begin{array}{c} \mathrm{EQ} \rightarrow \mathrm{AT} \\ \rightarrow \mathrm{EC} \end{array}$	0.062	0.054	3.267	0.026	Suppo rted
H08		$AT \rightarrow EC$	0.805	0.030	2.654	0.007	Suppo rted

### Testing direct impact

Three hypotheses are testing the direct impact of abroad trainee factors, abroad training factors, and abroad training quality on the creativity of the trainees. The first hypothesis (H01) shows the direct impact of the three constructs (SS, MO, and IA) on the creativity EC. Two out of three proposed hypotheses were rejected (H01b and H01c) while H01a was supported. The direct association between motivation and intellectual ability seems to have no impact on creativity (EC) which makes the first variable of abroad trainee factor very weak in conducting training abroad. The second hypothesis (H02) which shows the direct impact of the three constructs (CQ, DQ, and EQ) on the creativity of the trainees. Out of the three sub-hypotheses, only environmental quality (EQ) was rejected while the content quality (CQ) and delivery quality (DQ) was supported. It seems that the environment (for example the abroad location) has no impact on creativity. The third hypothesis (H03) tests the direct impact of the abroad training quality (AT) on EC. H03 was found supported reflecting that the mediator (AT) has its own impact on the creativity.

### Direct testing mediator impact

Testing the mediator (AT) was performed in two steps. The first step was to test the direct impact of the two constructs of abroad trainee factors and abroad training factors on the mediator. This step was conducted via direct testing of H04 (H04a, H04b, and H04c) and H05 (H05a, H05b, and H05c) on AT. The statistical result shows that all these six sub-hypotheses were supported, except H05a (CQ). This hypothesis was tested the indirect impact on EC and found supported; however, the same hypothesis was tested directly with AT and found not supported probably because of the difficulties of the respondents to recognize the exact difference between the content quality and the abroad training quality.

### Indirect testing mediator impact

There are two hypotheses to indirectly test the impact of the mediator, AT, as presented in Table 3, i. e., H06 (H06a, H06b, and H06c) and H07 (H07a, H07b, and H07c). All six sub-hypotheses were supported except H07a which test the impact of content quality (CQ) on the creativity EC. The impact of the mediator, AT, has become obvious as the number of rejected hypotheses has declined from three out of six to only one out of six.

### H08: Impact of the mediator

The mediator AT was tested by incorporating it in several hypotheses. H03 shows the direct impact of AT on EC (H03: supported). The other occasion when the direct impact of AT appeared was through H04 and H05 where the constructs of the abroad trainee factors and abroad training factor were tested. The impact of AT was again obvious as five sub-hypotheses were supported except only one sub-hypothesis (H05a). The most important line of AT impact was indirectly tested through H06 and H07. It was revealed that all sub-hypotheses were supported except one (H07a). Collectively, H08 that measures the impact of the mediator AT was tested and found supported with the strong association as the path coefficient reaches the closest level to 1.00.

### CONCLUSION

This study addressed the impact of the mediator, abroad training quality (AT), on the constructs of abroad trainee and the abroad training factors on the creativity of the Saudi public employees who attended at least one training session outside Saudi Arabia. The training was held in Dubai, Istanbul, and Kuala Lumpur. To measure the impact of the effect of trainee factors and training factors on creativity through the mediating role of abroad training quality in Saudi Arabia organizations. Having developed a conceptual framework, multi sub-hypotheses were proposed and tested using a series of statistical analyses using SEM and other tools available in SPSS and SmartPLS. The results have shown that half of the six sub-hypotheses was supported when training did not consider AT. However, when AT was involved, only one sub-hypothesis was rejected, and the other five subhypotheses were supported. Moreover, when the impact of AT on EC was directly tested, it was found supported; however with the weak association (0.330) compared with the corresponding association under AT involvement (0.803). The result could play an important role in setting future abroad training sessions as the involvement of a mediator makes a big difference in the achievement of the employees which would benefit the organizations where employees were coming from.

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