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Examine The Factor That Influence Training Reaction, And Its Consequence On Employee

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Abstract

This study examines the relationship between religiosity, training reaction and motivation to transfer. Structured equation modelling is conducted on survey data from 306 public sector employees in Malaysia. The result of this study highlight the importance of religiosity as a trainee characteristic factor that can influence employee reaction toward the training program, and ultimately demonstrate positive intention to transfer the training outcomes in the workplace. The findings of this study is very important because the relationship between religiosity, reaction and motivation to transfer has not been examined in the literature, particularly the relationship between religiosity and reaction, and the role of reaction as a mediator between religiosity and motivation to transfer.

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1. Introduction

One of the criteria to evaluate training effectiveness is reaction. Reaction refers to trainees' affective and utility responses to the training program (Arthur, Bennett, Edens & Bell, 2003). Affective response is the extent to which a trainee was satisfied with different components of the training such as instructional materials, method of delivery and training facilities. Utility reaction refers to trainees'



subjective evaluation of whether or not the content of the training program is useful for their respective jobs (Alliger, Tannenbaum, Bennett & Traver, 1998; Rowold, 2007).

Reaction has received significant research attention, generally focused on exploring the factors that influence it. A range of factors have been identified by previous studies including the trainees' motivation to learn (Pilati & Borges-Andrade, 2008), commitment (Seyler, Holton, Bates, Burnett & Carvalho, 1998), personality (Colquitt, LePine & Noe, 2000), demography such as gender, age, work experience, education level, job level (Ozturan & Kutlu, 2010), perceived practical relevant (Liebermann & Hoffmann, 2008) and perceived content validity (Bhatti & Kaur, 2010). These findings are very important, which can enhance organizations understanding about the factors that influence reaction.

Another important factor, which could has influence on reaction is religiosity. Religiosity can be described as the employee commitment to the empirical and theoretical fundamentals of the religion (Al-Goaib, 2003). Previous studies revealed that religiosity can facilitate employees' feelings (Abdel-Khalek, 2010; Kandaswamy, 2007), work attitude and behavior (Achour, Grine, Mohd Nor & Mohd Yusoff, 2015; Tiliouine & Belgoumidi, 2009). Therefore, this study posits that the trainees' commitment to the empirical and theoretical fundamentals of the religion could affect their affective and utility responses to the training program. However, such relationship has not yet empirically tested in the literature.

Another important issue that has received attention by previous training researchers is the consequences of reaction, particularly on employees. A number of studies demonstrate that reaction has relationship with motivation to transfer (Gegenfurtner, Veermans, Festner & Gruber, 2009; Liebermann & Hoffmann, 2008). In other word, previous studies argue that the trainees' affective and utility responses to the training program can influence their intention to apply the learned knowledge and skills in the workplace. However, the existing findings have been generated based on employees' perspective from Western context. According to Rees and Johari (2010), the findings that have been developed in the Western context, are not necessarily applicable to Asian countries. One explanation for this is the cultural differences between Western and Asian countries (Hofstede & Hodstede, 2005).

This study will address the gaps identified earlier. This study aims to make four contributions. First, exploring the relationship between religiosity and reaction can expand our understanding about the effect of another aspect of trainee characteristic on reaction. Such effort has been regarded as an important research direction by recent training scholars such as Liebermann and Hoffmann (2008) and Bhatti and Kaur (2010). Second, studying the relationship between religiosity and reaction can provide empirical evidence to the notion, which has been hypothesized by previous studies, that trainee characteristic (in this study refers to religiosity) to have a direct influence on reaction (Lim & Morris, 2006). Third, there is a growing recommendation to test the role of reaction as a mediator between the factors that influence reaction and motivation to transfer (Gegenfurtner et al., 2009; Bhatti & Kaur, 2010). Such effort can expand the existing knowledge that mostly regard reaction as direct predictors of training criteria (Morgan & Casper, 2000). This study provides empirical evidence about the role of reaction as a mediator in the relationship between religiosity and motivation to transfer. Fourth, the findings of this study is unique because the conceptual framework has been examined in the context of

public sector organizations. Previous studies have mostly been conducted in private sector organizations. In previous studies evidence has been presented showing that organizational climate can influence trainees' affective and utility responses to the training program (Colquitt et al., 2000). As public and private sector organizations are significantly difference in term of climate (e.g., organizational goals and systems, work values, work motivation (Buelens & Broeck, 2007), the findings of this study can enrich the understanding about religiosity, reaction and motivation to transfer issues in different context, specifically the public sector organizations in Malaysia (a developing country at Southeast Asia).

2. Literature review

2.1 The relationship between religiosity and reaction

Prior research suggests employees who have commitment to the empirical and theoretical fundamentals of the religion (religiosity) will feel satisfaction with their life, job and family (Achour et al., 2015; Tiliouine & Belgoumidi, 2009). Employees also can minimize the negative feelings such as anxiety (Abdel-Khalek, 2010) and stress (Kandaswamy, 2007), as a result of religiosity. The previous findings prove that religiosity can play an important role on individual feeling and emotion. As the term of reaction is the same as measuring the feelings (Kirkpatrick, 1998), this study hypothesized that the religiosity will be positively related to trainees' affective and utility responses to the training program. Therefore, the following hypothesis is proposed:

Hypothesis 1: Religiosity is positively related to reaction

2.2 The relationship between reaction and motivation to transfer

Empirical studies among sample from various industry such as motor vehicle dealerships (Warr, Allan & Birdi, 1999), banking (Liebermann & Hoffmann, 2008), Petrochemical (Seyler et al., 1998), and private university (Burke, 1997) confirm a significant relationship between reaction and motivation to transfer. In fact, reaction has been found as the main predictor for motivation to transfer (Liebermann & Hoffmann, 2008). These findings suggest that trainees who have positive reaction to the training program show high intention to transfer the learned knowledge and skills to their workplace following the training. Accordingly, the present study presumes that the employees of public sector organizations in Malaysia may engender greater motivation to transfer as a result of their positive reaction to the training program they have attended. Therefore, the following hypothesis is proposed:

Hypothesis 2: Reaction is positively related to motivation to transfer

2.3 Reaction as a mediator

As previously discussed, this study propose a positive relationship between religiosity and reaction (Hypothesis 1). In addition, this study propose that reaction positively relates to motivation to transfer

(Hypothesis 2). Both hypotheses a possible indirect effect between religiosity and motivation to transfer (Zumrah, 2015; Zumrah & Boyle, 2015). Thus, this study propose that reaction could be a mediator between religiosity and motivation to transfer.

Hypothesis 3: Reaction is a mediator between the religiosity and motivation to transfer

Based on the previous hypotheses, below is a research framework of this study (see Figure 1).

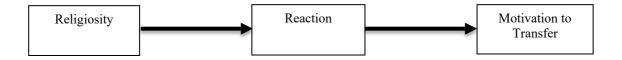


Fig. 1. The Research Framework

3. Methodology

3.1 Sample

This study was conducted in a public sector organization in Malaysia. New employees (have worked in the public sector within six months to one year), who attended a 'Mind Transformation Program' have participated in this study. The data were collected through questionnaire. A total of 308 questionnaires was collected. However, only 306 questionnaires contained complete data. The other 2 questionnaires have been eliminated due to incomplete (few questions have not been answered by respondents).

Among the respondents, 63 percent (n = 193) were male and 37 percent (n = 113) were female. 76 percent (n = 231) are still single, while 24 percent (n = 75) of them have married. In term of age, the majority, 86 percent (n = 264) of them are between 20 - 30 years old, 12 percent (n = 36) are between 31 - 40 years old, and only 2 percent (n = 5) of them are between 41 - 50 years old.

3.2 Measures

This study used previously published measures. All measures were assessed using a five-point Likert-type scale (1 = strongly disagree; 2 = disagree; 3 = neutral; 4 = agree; 5 = strongly agree).

Religiosity was measured using 10 items developed by Achour, Grine, Mohd Nor and Mohd Yusoff (2015). An example of the items is 'Religion is important to me because it helps me to cope with life events'. Cronbach's alpha for the scale in this study was 0.94.

Reaction was measured using three items developed by Marler, Liang and Dulebohn (2006). An example of the items is 'The training sessions meet my expectations'. Cronbach's alpha for this scales in this study was 0.86.

Motivation to transfer was measured using four items developed by Baharim (2008). An example of the items is 'I will put into practice what I have learned from the training to the workplace'. Cronbach's alpha for this scales in this study was 0.94.

4. Analysis results

The data of this study have been analyzed through structural equation modeling technique. As recommended by Anderson and Gerbing (1988), this study estimated a measurement model using a confirmatory factor analysis (CFA) prior to examining the structural model relationships.

The measurement model that included all items showed a good fit. For example, the value of chi-square (χ^2) / degrees of freedom (df) is 4.592. According to previous researchers (e.g., Hair, Black, Babin & Anderson, 2010; Tabachnick & Fidell 2007; Williams, Vandenberg & Edwards, 2009), the score of χ^2 /df between 2 and 5 can justify the good fit of a particular model. The comparative fit index (CFI) also showed acceptable value, which is 0.904. In addition, the value of the standardized root mean residual (SRMR) achieves acceptable value (0.0498), which is below 0.10. According to Hair et al. (2010) and Williams et al. (2009), SRMR value less than 0.10 is considered a good model.

Based on Table 1, the composite reliability and the Cronbach's alpha provide evidence of internal consistency. In addition, all indicators loaded strongly and significantly on their respective factors, and the standardized loadings ranged from 0.637 to 0.939. The result of the average variance extracted (AVE) for each variable has also exceeded 50 percent, indicating the convergent validity (Anderson & Gerbing, 1988; Hair et al., 2010). Moreover, Table 2 shows that the square roots of AVE estimates are greater that the corresponding interconstruct correlations estimates, indicating discriminant validity (Hair et al., 2010).

Table 1. Standardized measurement coefficients resulting from CFA

	Religiosity	Motivation to Transfer	Reaction
Reliability (Cronbach's Alpha)	0.94	0.94	0.86
Composite reliability	0.94	0.94	0.87
Average variance extracted	0.63	0.80	0.69
Item abbreviation			
RELIGI1	0.637		
RELIGI2	0.770		
RELIGI3	0.828		
RELIGI4	0.818		
RELIGI5	0.822		
RELIGI6	0.830		
RELIGI7	0.852		
RELIGI8	0.783		
RELIGI9	0.741		
RELIGI11	0.815		
MTT1		0.858	
MTT2		0.939	
MTT3		0.911	
MTT4		0.860	
REAC1			0.844
REAC2			0.865
REAC3			0.771

Notes: N = 306, χ 2=532.692, df=116, p<0.000, χ 2/df=4.592, CFI=0.904, SRMR=0.0498. All are significant (p<0.001).

Table 2. Means, Standard Deviation and Correlation Matrix

Variable	M	SD	REGI	MTT	REAC
REGI	4.77	0.39	0.792		
MTT	4.51	0.53	0.539***	0.893	
REAC	4.30	0.58	0.385***	0.634***	0.828

Notes: M = mean; SD = standard deviation; REGI = religiosity; MTT = motivation to transfer; REAC = reaction. The square root of AVE value mark with bold. ** = p<0.001

After estimating the measurement model with a confirmatory factor analysis, the second stage of analysis involved estimating the proposed relationships. As demonstrated in Table 3, all the fit indices suggest a reasonable fit between the model and the data (Browne & Cudeck, 1993; Carlson & Mulaik, 1993). The results of the analyses are presented in Figure 2. The results indicate that religiosity is positively related to reaction (coefficient = +0.427, critical ratio = 6.708, p < 0.001). In other words, the findings indicate that employee commitment to the empirical and theoretical fundamentals of the religion can influence the employee affective and utility responses to the training program. In addition, the analysis result also shows that reaction is positively related to motivation to transfer (coefficient = +0.655, critical ratio = 11.120, p < 0.001). This result means employees who have a positive reaction to the training program, they will show desire to utilize the knowledge, skills and attitudes learned in training to their workplace. These results support hypotheses 1 and 2 of the study. Based on the previous results, this study indicates that the effects of religiosity on motivation to transfer are mediated by reaction (Chand, 2010; Zumrah & Boyle, 2015), so hypothesis 3 is supported. A discussion of the findings is presented in the following section.

Table 3. Structural model Goodness-of-Fit Statistics

Fit Indices	Value	
Chi-square χ² (p-value)	576.844 (<i>p</i> <0.000)	
Degree of freedom (df)	117	
Normed Chi-square (χ^2/df)	4.930	
Comparative fit index (CFI)	0.900	
RMR	0.028	
Normed fit index (NFI)	0.900	

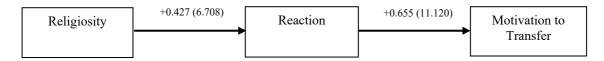


Fig. 2. The result of structural model analysis

Notes: Figures are factor loadings followed by critical ratio value. The critical ratio value indicates the significant level of factor loading. The minimum critical ratio value of 1.960 is required for the factor loading to be significant (Byrne 2010). ***p<0.001.

5. Discussion

The result from data analysis has confirm the first hypothesis of this study by demonstrating a positive and significant relationship between religiosity and reaction. The result suggest that the employees' religiosity value (committed to the empirical and theoretical fundamentals of the religion) can influence their affective and utility responses to the training program. This finding is an important outcome that has not been empirically determined previously in the training literature. This finding also responds to recent researchers suggestion to identify further factors that have an impact on the trainee reaction (Liebermann & Hoffmann, 2008; Bhatti & Kaur, 2010), and helps clarify and support previous arguments indicating that the trainee reaction to the training program can be influence by the trainee characteristic (Lim & Morris, 2006).

The result from data analysis also has provide support to the second hypothesis of this study by demonstrating a positive and significant relationship between reaction and motivation to transfer. This result is in line with the results of previous empirical work in private sector context (Burke, 1997; Seyler et al., 1998; Warr et al., 1999; Liebermann & Hoffmann, 2008). The result suggest that when employees of public sector organizations in Malaysia shows positive reaction to the training program, they will demonstrate a positive intention to apply the knowledge and skill that they learned in training to their workplace, following the training program. This may result from the nature of employees in public sector in Malaysia, who emphasize on the norm of reciprocity in which people respond to each other in kind – returning benefits for benefits. Previous study that has been conducted in similar context of this study reveals that when employees perceived organizational support, they have apply the learned knowledge and skills in the workplace, which, in turn increase their job performance (Zumrah, 2015).

The result from data analysis further confirm the third hypothesis of this study, which shows that reaction has essential role as a mediator in the relationship between religiosity and motivation to transfer. The significant relationship between religiosity – reaction – motivation to transfer is an important finding that has not been empirically determined previously in the training literature. Although such relationship is limited to the specific context of the public sector in Malaysia, this study highlight religiosity as an important factor that can influence employees reaction toward the training program, and ultimately their motivation to transfer the training outcomes in the workplace following the training.

6. Implication of the study

This study provide guidance to training practitioners (e.g., training consultant company) wishing to enhance a positive training reaction of public sector employees in Malaysia. A significant relationship between religiosity and reaction indicates that the importance of religion elements to be include in the training program when conducting training to public sector employees in Malaysia. As the majority of public sector employees in Malaysia are Muslim, example of religion element that can be implement during the training program is reciting *dua*' (act of supplication) in the beginning of every training session, include number of example from Islamic perspective that related and suitable with the training

content in delivering the lecture, and pray together that include program committees, trainer and trainees. This study reveals that when employees get opportunity to commit with such religion practices, they will response positively to the training program they have attended.

The finding of this study underline the importance for management of public sector organization in Malaysia to improve employee reaction toward the training program because this study suggest that when employees shows positive reaction to the training program, they will demonstrate a positive intention to apply the knowledge and skill that they learned in training to their workplace. The management team might do this by ensuring the training content is relevant to employees' current job, and can be practically implement at the employee workplace. Previous research demonstrates that these initiatives have play a greater role in promoting positive reaction of employees toward the training program (Liebermann & Hoffmann, 2008; Bhatti & Kaur, 2010).

7. Limitations and suggestions for future study

First, this study is limited to a single context, which is employees of the public sector in Malaysia. Future research is encouraged to validate the proposed framework of this study that include religiosity, motivation to learn and motivation to transfer, in another context. It is due to every country is unique in terms of environmental characteristics and culture.

Second, this study only examine the effect of religiosity on reaction. Future study may expand the literature by exploring the effect of other aspect of trainee characteristics on reaction. This suggestion is in line with other researchers who continuously suggest to further identify the factors that have an impact on the trainee reaction (Liebermann & Hoffmann, 2008; Bhatti & Kaur, 2010).

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