Leadership Competencies and Commitment to Change: The Mediating Effect of Developmental Leadership Behavior

Fanny Kho Chee Yuet

Universiti Pendidikan Sultan Idris, Malaysia, fannykcy@fpe.upsi.edu.my

Abstract

Leading change from the classroom is closely linked with the development of teacher leaders. It is considered to be the significant outcome of teachers' commitment to change their ordinary role as classroom instructional leaders to school-based teacher leaders. In this regard, it is a privilege for teacher leaders to walk with principals who portray developmental leadership behavior competently. Thus, the objective of this study is to test a theory-based model predicting teachers' leadership competencies and its relationship with principals' developmental leadership behavior and teachers' commitment to change. Data was collected from 928 respondents who served in 58 high performing secondary schools in Malaysia. Structural Equation Modeling was utilized to test the model developed. The results indicate that the teachers' leadership competencies have significant relationship with principals' developmental leadership behavior was found to mediate the relationship between teachers' leadership competencies and teachers' leadership behavior developmental leadership behavior to change. In addition, principals' developmental leadership behavior was found to mediate the relationship between teachers' leadership competencies and teachers' commitment to change.

Keywords: leadership competencies, developmental leadership behavior, commitment to change, teacher leaders

INTRODUCTION

Last decade research has emphasized on teachers' new role as instructional leaders (Darling-Hammond, 1999; Hill & Amabile, 1993; Crowther, 2002a & 2002b). In other words, teachers should portray leadership values and perform as leaders particularly in creating effective instructional practices based on their specialized area which will contribute to school improvement (Andrews, Crowther, Hann & McMaster, 2002). The emphasis on school improvement would greatly depend on the effectiveness of shared leadership approach implemented in school (Chesterton & Duignan, 2004).

In fact, the norm of shared approach requires teachers to share leadership responsibilities with principals (Crowther et al, 2002a & 2002b). Principals, on the other hand, need to distribute leadership responsibilities among teachers (Lashway, 2003; Pearce & Sims, 2002; Harris, 2002; Spillane, Halverson & Diamond, 2001; and Elmore, 2000). Similarly, Pearce and Sims (2002) had conducted a research on ways leadership is distributed, as well as distributive influence of positional leaders and effectiveness of shared leadership of informal leaders, in which leadership practice in schools was assigned as the unit of analysis.

Elmore (2000), too, emphasized that leadership in schools need to be distributed among school communities, in which expertise is incorporated within a culture of coherence, collaborative work, guidance and direction for improvement of instructional practice (Katz, Earl & Jaafar, 2009).

Silins and Mulford (2002) believe that a whole-school re-structuring require teachers to engage in leadership responsibilities and students' development. Distributed leadership therefore, need to be relocated to other school communities as well (MacBeath, 1998; Day, Harris & Hadfield, 2001; Harris 2002).

With respect to support whole school re-structuring process, Harris (2002) revealed that strong collegial relationship, trustworthy, supportive, enquiry-based focused are essential factors for effective school reform to occur. The underlying norms, values, beliefs, and assumptions in the collegial relationship also lead to effective teamwork among teachers (Peterson, 1994). Silins and Mulford (2002), provide evidence that students' achievement will improve when teachers are empowered in decision making particularly on the effectiveness of instructional practices and assessment.

Nonetheless, empowerment is hardly to establish and maintain in practice if leadership is not individually desired and distributed (Harris, 2002). Hence, principals need to find ways to influence teachers to assume leadership role as classroom instructional leaders while providing support and resources in changing current individualistic instructional practices to collaborative practices. Obviously, a new paradigm in teaching profession is needed to provide new forms of leadership in schools and communities (Crowther et al., 2002a).

Indeed, teachers' role as 'leaders' would be enhanced if they perform as 'leaders' in the professional development community, as well as members of school-wide leadership teams and instructional support teams (Childs-Bowen, Moller, & Scrivner, 2000; Camegie Forum on Education and the Economy, 1986; Holmes, 1986; Elmore, 2002; Livingston, 1992). Simply stated, teachers are more competent in initiating change in a comprehensive and continuous manner (Howey, 1988; Livingston, 1992), without necessary leaving the classroom.

In fact, the task of initiating effective reform requires a multi-dimensional set of leadership competencies (Day & Harris, 2002). Competencies is one of the three critical factors that contribute to successful school reform, followed by commitment and capability (Marcus & Pringle, 1995). Identifying competencies is significantly important in the leadership development puzzle (Yamazaki & Kayes, 2004) as it has a great influence in teacher leadership success in schools, and can be fine-tuned for greater efficiency in leading change from the classroom (Teacher Leadership Exploratory Consortium, 2011; Tubbs & Schulz, 2006).

CONCEPTUAL FRAMEWORK AND THEORETICAL FOUNDATION

The conceptual framework of the present study seeks to comprehend and clarify whether Teachers' Leadership Competencies (TLC) is a multidimensional concept by distinguishing the crucial leadership competencies that facilitate school change, and how these perceived competencies influence Principals' Developmental Leadership Behavior (PDLB) and Teachers' Commitment to Change (TCC). TLC function as Independent Variable (IV), TCC as Dependent Variable (DV) while PDLB function as Mediating Variable (M) of the study (Figure 1).

Basically, the study was constructed to three latent variables and thirteen of their respective indicators are chosen to estimate the variables as shown below:

- a) Latent construct 1: Teachers' Leadership Competencies (TLC) which is measured by five indicators, i.e.
 - i) Facilitating Improvement and Establishing Standards (FIES);
 - ii) Modeling Leadership Attributes and Skills (MLAS);
 - iii) Participating in Organizational Development (POD);
 - iv) Fostering a Collaborative Culture (FCC); and
 - v) Performing as Referral Leader (PRL);
- b) Latent construct 2: Principals' Developmental Leadership Behavior (PDLB) which is measured by five indicators, i.e.
 - i) Focused (FOC);
 - ii) Supportive (SUP);
 - iii) Developer (DEV);
 - iv) Competitive (COM); and
 - v) Charismatic (CHA).
 - c) Latent construct 3: Teachers' Commitment to Change (TCC) which is measured by three indicators, i.e.
 - i) Personal Goals (PEG);
 - ii) Capacity Beliefs (CAB); and
 - iii) Context Beliefs (COB)

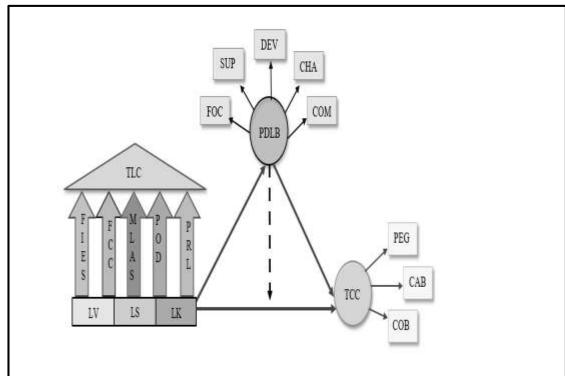


Figure 1: The Proposed Conceptual Framework of the Study

The conceptual framework in the present study emphasis on the research purposes, objectives and relationship based on the underlying theoretical perspectives which support the research design, assisting the researcher in justifying the research and to successfully achieve the objectives of the study as well, not only to bear in mind the three latent variables and the thirteen key indicators as discussed above.

Ultimately, the framework was established by integrating results and theories or models which gradually developed: Distributed Leadership Theory (Gronn, 2002; Spillane, Halverson, & Diamond, 2004; Spillane, 2006), Leadership Competencies Theory (McCall, 1998; Conger, 1999; Charan, Drotter, & Noel., 2000; Tichy & Cardwell, 2002), Skills-Based Leadership Theory (Danielson, 2006), Knowledge-Based Leadership Theory (Fullan, 1994), Values-Based Leadership Theory (Daft, 2005), Competency Theory (Boak & Coolican, 2001; Cairns, 2000), Transformational Leadership Theory (Burn, 1978; Avolio, Waldman & Einstein, 1988; Bass, 1990), Motivation Theories (Ford, 1992 & Bandura, 1986), and Social Learning Theory (Bandura, 1977). The proposed conceptual framework qualifies an inclusive analysis of all connected domains and the comprehensive coherence was constructed based on pertinent theories and models (Figure 1).

POPULATION AND SAMPLE

The study population encompassed of 16,892 High Performing Secondary Schools (HPSS) teachers in Malaysia (KPM, 2014). The HPSS teacher leaders' competency in leading change is far higher than teacher leaders in mediocre or low-performing. As a result, principals in HPSS experienced developing teacher leaders more often than their counterparts in mediocre or low-performing schools. Hence, by focusing on HPSS, the researchers can more accurately evaluate the critical component of Principal's Developmental Leadership Behavior (PDLB).

Multiple-staged stratified random sampling procedure was utilized in this study. Basically, there were three strata in the study population, and as a result 87 Daily Secondary School (DSS), 91 Fully Residential Secondary School (FRSS) and 50 Religious Secondary School (RSS) or a total of 228 HPSS were selected randomly through the proportionate stratification procedure for the survey. Next, the proportionate stratification procedure was applied again to stratify the HPSS in each state, respectively. This sampling technique gives all the three strata in each state equal chances of being selected. After the stratification of school is made, then the sample was identified.

With 58 schools identified, 16 respondents of teachers from each school were chosen as the sample by using the simple sampling method based on the official list of teachers provided by the State Education Departments, respectively. As a result, 352 teachers were selected to represent DSS, 368 for FRSS and 208 for RSS. Overall, a total number of 928 respondents were identified for the survey where this represents 25% of the total number of teachers in 58 HPSS (N = 3,665). Importantly, it meets the basic requirement of evaluating the overall fit of the hypothesized models using structural equation modeling analysis (SEM) (Chua, 2009; Kline, 2005).

DATA ANALYSIS AND RESULTS

The Pooled-CFA to Validate the Measurement Model of TLC-PDLB-TCC Constructs Involved in the Model

The researcher computes certain measures which indicate the validity and reliability of the pooled TLC-PDLB-TCC construct (Figure 2) and summarize them in Table 1, after successfully complete the CFA procedure for every measurement model. Thus, the assessment for unidimensionality, validity, and reliability for measurement models are performed prior to modeling the structural model.

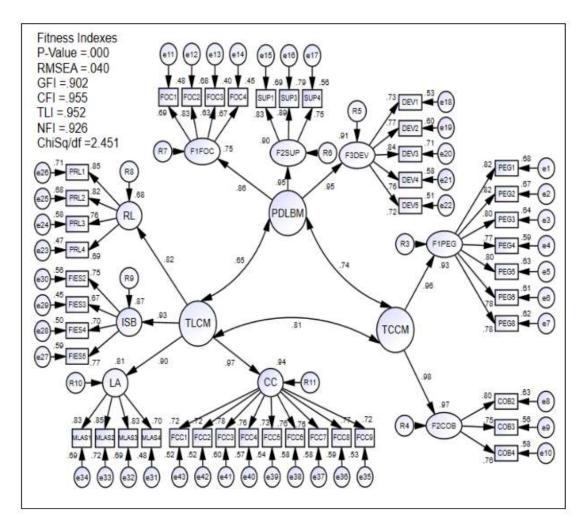


Figure 2: The Pooled Measurement Model of TLC-PDLB-TCC

Unidimensionality

Unidimensionality of theTLC-PDLB-TCC constructs is achieved through item-deletion process for low factor loading items. The process is repeated until the fitness indices achieved the required level.

Construct Validity

Three categories of fit indices were utilized to assess the construct validity of TLC-PDLB-TCC models namely, i) absolute fit indices; ii) relative fit indices; and iii) parsimonius fit indices. The absolute fit indices (GFI=.902); the relative fit indices (CFI=.955; TLI=952); and the parsimonius fit indices (NFI=.926) has surpassed the threshold value of .90. indicating the construct validity of the TLC-PDLB-TCC models is achieved.

Convergent Validity

The convergent validity of the TLC-PDLB-TCC models is achieved since all the AVE surpassed the required value of 0.50 (Hair et al., 2006), i.e. TLCM (.832), PDLBM (.849), and TCCM (.961) (Table 1). These values also support the content validity of the TLC-PDLB-TCC models.

| Construct | Item | Factor Loading | CR (above 0.6) | AVE (above 0.5) |
|-----------|----------|-------------------|-------------------|--------------------|
| TLCM | FOC/CC | .96 | .952 | .832 |
| | MLAS/LA | .95 | | |
| | FIES/ISB | .92 | | |
| | PRL/RL | .81 | | |
| PDLBM | FOC | .86 | .944 | .849 |
| | SUP | .99 | | |
| | DEV | .91 | | |
| TCCM | PEG | 1.00 | .980 | .961 |
| | COB | .96 | | |

Discriminant Validity

Table 2 shown that the diagonal value (in bold) are higher than any other values in its row and column. Thus, the researcher may conclude that the discriminant validity for TLC-PDLB-TCC constructs involved in the model is achieved. The next stage would focus on modelling the structural model (SEM).

| | Tuble | y | | |
|---|-----------|----------|-------|------|
| - | Construct | TLCM | PDLBM | TCCM |
| - | TLCM | 0.94 | | |
| | PDLBM | 0.65 | 0.95 | |
| _ | TCCM | 0.81 | 0.74 | 0.99 |

The Mediation Test

In order to test the research question (*Does Principals' Developmental Leadership Behavior mediate the relationship between Teachers' Leadership Competencies and Teachers' Commitment to Change?*), the study employed the method proposed by Zainudin Awang (2015) in testing for the mediation effects in the model. According to Zainudin Awang (2015), the mediation occurs only if the effects from exogenous construct to the endogenous construct that goes through the mediator (indirect effect) is greater than the effects from the exogenous construct that goes directly to the endogenous (direct effect). In the meantime, the type of mediation would depend on the significance of the direct effect. If the effect is significant, partial mediation will occur. Otherwise, full mediation will occur. Table 3 presents the Path Coefficient and its significance. The results show all paths are significant. Figure 2 presents the standardized path coefficient of the model.

| | Estimate | Std. Estimate | S.E. | C.R. | Р | Result |
|--------------|----------|------------------|-------|--------|-----|-------------|
| PDLBM < TLCM | 0.640 | 0.67 | 0.049 | 13.188 | *** | Significant |
| TCCM < PDLBM | M 0.757 | 0.58 | 0.055 | 13.698 | *** | Significant |
| TCCM < TLCM | 0.496 | 0.33 | 0.048 | 10.319 | *** | Significant |

Table 3: The Regression Weights and Its Significance

Figure 3 presents the indirect effect TLCM to TCCM that goes through PDLB is 0.388 (0.67 x 0.58) and the direct effect TLCM to TCCM is 0.33. Both the indirect and direct effects are also significant. Thus, Partial Mediation occurs since indirect effect is higher than direct effect Muhammad Kashif, Siti Zakiah Melatu Samsi, Zainudin Awang, & Mahadzirah Mohamad, 2016).

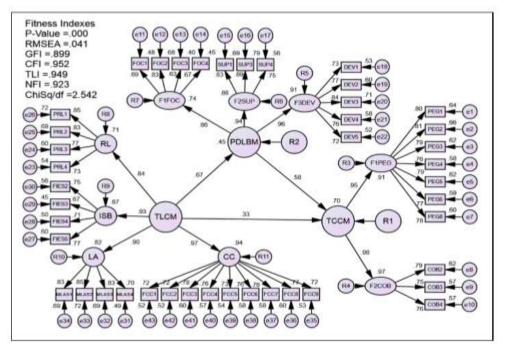


Figure 3: The Regression Path Coefficients between Constructs in the Study

SUMMARY OF FINDINGS

The findings of the study would provide input to support the development of teacher leadership model that promotes the inclusion of 2st century leadership values, knowledge and skills. Ultimately, the conceptual framework qualifies an inclusive analysis of comprehensive coherence constructed based on pertinent theories, which contribute to leadership development in any context, individually or organizationally, whereby the perceived developmental leadership behavior function as a critical contributor to commitment to change. In other words, commitment to change are grounded in higher order concept – the perceived developmental leadership behavior.

Besides, the finding also contributes to the understanding of self-regulative influences by which human behavior is altered accordingly. According to Bandura (1999), the impact of most external influences on human action is heavily mediated through self-processes and these permits both insightful and foresightful behavior. Self-influences thus lie at the very heart of causal processes. To cite specific example of this study, principals make causal contributions to their own functioning through cultivation of personal capabilities. In other words, leaders' developmental leadership behavior mediates the relationship between leadership competencies and commitment to change.

Indeed, the above finding was obtained through the application of the social learning theory developed by Bandura (1977). Without this guided theory, it is more likely difficult to conduct a comprehensive analysis which can produce genuine finding. By explicitly focusing on the link among teachers' leadership competencies, principals' developmental leadership behavior and teachers' commitment to change, the researcher indeed started filling the theoretical gaps in the literature.

The finding is also in line with the results of the study conducted by Sarros and Santora (2001), as well as Murphy and Ensher (2008) who claimed that leadership behavior is the most important factor to manage change in an organization which leads to the accomplishment of organizational goals. This view is also congruent with Robbins and Coulter (2009) who revealed that behavioral aspects of leaders serve as an important aspect to train leaders. Besides, DuBrin (2007) definition of leadership also emphasis on the ability of a leader to inspire confident and support among subordinates towards the achievement of organizational goals. Zaccaro and Klimoski (2001), also believed that a leader has the ability to direct subordinates towards the strategic objectives of the organization which is in line with environmental factors.

Apart from these, the finding also in line with Felf and Schyns (2004) research findings that focused on effective leaders as those who practiced transformational leadership style, have great effects on subordinates' behavior in leading their organizations (Tickle, Brownlee, & Nailon, 2005; Bommer, Rubin, & Baldwin, 2004), have an important antecedent to construct the collective confidence or strength among subordinates when facing with difficult challenges (Bass & Avolio, 2003), were able to create significant organizational change and act as change agents, foster higher level of intrinsic motivation, and loyalty among subordinates, introduce a new image of the future, and create commitment among subordinates towards the success of an organization (Kinicki & Kreitner, 2008; Noorshahi & Yamani Dozi Sarkhabi, 2008).

Based on the discussion above, it is noted that school principals need to acquire their effective developmental leadership behavior in developing leadership competencies among teachers due to the great gap between the current state and the desired future state before attempting any school change. Huberman (1973), suggested that focused on the changes in the roles and 'interpersonal relations' among subordinates i.e. teachers and teachers which leads to teacher leadership, will lead to the success of school change. Likewise, leadership is claimed to be an effective practice in people management that leads to the success of an organization (Prinsloo, Moropodi, Slabbert & Parker, 1999). Hence, teachers should aware of the current state which needs reform to take place. Indeed, resistance to reform can be overcome when reform is considered as a need by the implementers (Battistich, Schaps, Watson, & Solomon, 1996; Noblit, Malloy, & Malloy, 2001), when good relationships are built among or between school staff and parents, and when they are involved in decision-making (Boxall & Purcell, 2008; Woodruff, Shannon, & Efimba, 1998); as well as when competencies are increased for successful accomplishment of the reform.

The finding also expands our understanding why school principal needs to support teachers and develop them for in-school capacity (Collins, 2001), and Bishop, Berryman and O'Sullivan (2010) in their research findings that supportive leaders foster committed and agentic teachers. Hersey and Blanchard (1969) also claimed that supportive leaders deal with their subordinates individually and listens to their problems, encourages them in their work, and supports his subordinates socially and emotionally. Evans (1970) and House (1971) too, revealed that supportive leaders interact with the subordinates in a friendly manner and creates a sincere atmosphere with them. They pay attention to their subordinates' tasks and motivate them.

Apart from these, the finding also in line with Bass (1997, 1985), as well as Lim and Ployhart (2004) research findings that supportive leaders have the ability to transform their subordinates towards the creation of new ideas in conducting their tasks and thereby increases the level of task interdependence. In short, all the above research findings support the current finding that leaders' supportive developmental leadership behavior is an important factor in PDLB as it enables principals to assist the teachers in the enhancement of leadership practices, as well as self-development and self-confidence for school change initiatives.

DIRECTION FOR FUTURE RESEARCH

As teachers have the potential to exercise new and dynamic leadership in schools (Katzenmayer & Moller, 1996), and teachers begin to believe in their leadership capabilities, professional community development via teacher leadership is needed (Barth, 2001). Hence, in order to measure a particular development of teacher leadership in the schools involved, a more accurate and adequate evaluation of teachers' reaction toward school principals' developmental leadership behavior is needed. Nonetheless, the data utilized in this study were based on the development of teacher leadership competencies (i.e. TLC) based on four distinct leadership competencies that had been practiced in the school, at a given point in time, respectively.

More specifically, to strengthen the validity of the findings, it would therefore be worthwhile to examine the development of teacher leadership that had been informally initiated at the same time by all the schools involved in the research so as to make the teacher leadership studied more comparable and thus remove the phenomenon of negative stereotype threats (Spencer, Steele, &

Quinn, 1999; Steele & Aronson, 1995; Jordon & Lovett, 2007) that typically exist in leadership research.

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