



Public school teachers' satisfaction with retention factors in relation to work engagement

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Author:

Ronny Shibiti 1 📵

Affiliation:

¹Department of Business Management, College of Economic and Management Sciences, University of South Africa, Hammanskraal, South Africa

Corresponding author:

Ronny Shibiti, shibir@unisa.ac.za

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© 2020. The Authors. Licensee: AOSIS. This work is licensed under the Creative Commons Attribution License. **Orientation**: The quality of education is influenced by the engagement, well-being, retention and performance of teachers. Literature shows that teachers are exiting the teaching profession at an alarming rate, and there are various and intertwined reasons compelling teachers to leave their jobs.

Research purposes: The purpose of this study was to investigate the influence of retention factors on work engagement.

Motivation for the study: Turnover among teachers is high, and many teachers are leaving the profession during their early years of teaching. An empirical investigation of the relationship between retention factors and work engagement and the results of utilising retention factors and work engagement to facilitate employee retention is needed.

Research approach/design and method: A quantitative design was used, and 278 questionnaires were collected from a convenience sample of teachers from public schools in the Tshwane Municipality.

Main findings: Correlational analysis revealed significant relationships between retention factors and work engagement. Multiple regression analyses revealed that retention factors significantly predict work engagement. The main practical contribution of this study is the way in which it has demonstrated that retention factors relate to and predict work engagement.

Practical/managerial implications: Organisations should provide their employees with improved compensation, training and development, and career opportunities as this may improve employees' work engagement. Therefore, organisations should determine whether employees are satisfied with these retention factors as provided in the organisation.

Contribution/value-add: This study adds to the psychological attachment theory by suggesting that employees satisfied with retention factors in their organisations are more likely to be engaged.

Keywords: retention factors; work engagement; compensation; work–life balance; career development; training and development; vigour; dedication; absorption.

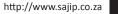
Introduction

Quality education highly depends on the engagement, well-being, retention and performance of teachers (Fouché, Rothmann, & Van der Vyver, 2017). In 2013, research studies highlighted that the basic education system needs about 25 000-30 000 teachers every year. However, the tertiary system supplies between 6000 and 8000 teachers a year, with about 10 000 in an exceptional year (Miya, 2017). Furthermore, the worrying reality in the literature is that teachers are exiting the teaching profession at an alarming rate (Centre for Development and Enterprise, 2015; Hugo, 2018; Mafukata & Mudau, 2016; Mampane, 2012). According to Mafukata and Mudau (2016), there is a high turnover among teachers, with many teachers leaving the industry in their early years of teaching. A high number of competent, graduate teachers choose to relocate to other countries or find employment in other industries. As a result, thousands of teachers are lost on an annual basis (Centre for Development and Enterprise, 2015). More than a quarter of recently qualified teachers are dissatisfied with the teaching profession in South Africa because of low salaries and the poor image associated with teaching profession (Centre for Development and Enterprise, 2015). Moreover, high numbers of teachers who leave the industry are not replaced because of the inefficiency of the tertiary system to address the training and developmental needs of teachers in South Africa (Hugo, 2018; Mafukata & Mudau, 2016). This is contrary to the Department of Basic Education's stance that the number of newly qualified teachers has recently tripled and more teachers remain in the public education system (Citizen, 2018). Furthermore, recent statistics regarding teachers' turnover rate does not

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support the narrative that the turnover rate of teachers in South Africa is very high. However, the study is warranted because the challenge is generally emphasised in the literature.

According to Furuta (2015), teachers are motivated to remain with their current school if their contributions are acknowledged, and if they feel that they have made a positive contribution to the social circumstance of the school, such as having a good relationship with learners, colleagues and administrators. Nevertheless, the reasons for encouraging teachers to vacate their positions are many and interlinked (Mafukata & Mudau, 2016). Teachers with certain characteristics may be more likely to leave, compared to other teachers (Pitsoe, 2013). Therefore, it is critical to implement measures that will improve the retention of teachers with highly needed competencies in order to meet the demand in public schools. A profound understanding of the factors that may improve teacher retention in public schools is needed, and of the way in which variables such as retention factors and work engagement impact on the retention of employees. According to Schaufeli and Bakker (2004), work engagement is imperative because, in general, engaged employees are very fond of the organisation they work for and are more likely to remain indefinitely.

The purpose of this study was to investigate the influence of retention factors on work engagement of public schools teachers in the Tshwane Municipality, South Africa. A non-experimental, quantitative study was conducted using a survey. Convenience sampling technique was used, and questionnaires (hard copies) were distributed to teachers in Tshwane Municipality public schools. This study adopted Döckel's (2003) retention factors and Schaufeli, Salanova, Gonzalez-Roma and Bakker's (2002) work engagement models to address the problem of teacher retention.

Research purpose and objectives

The purpose of this study was to investigate the influence of retention factors on work engagement of teachers in Tshwane Municipality public schools. To this effect, the following objectives were formulated:

Research objective 1: To establish the relationship between retention factors and work engagement.

Research objective 2: To determine whether retention factors positively and significantly predict work engagement.

Research objective 3: To determine whether retention factors positively and significantly predict the three sub-factors of work engagement, namely, vigour, dedication and absorption.

Literature review

Retention factors

Employee retention can be defined as the interventions implemented by an organisation to build an atmosphere that will encourage employees to stay for a longer period and thereby discourage qualified and experienced employees from exiting the organisation (Mohammad, 2015; Sandhya &

Kumar, 2014). When employees leave an organisation, it may be detrimental for the organisation's performance and success (Mohammad, 2015; Sandhya & Kumar, 2014). Hence, it is critical that organisations motivate employees to remain by endorsing policies and practices that satisfy employees' various needs (Mahalakshmi & Rao, 2012). Retention factors can be defined as the human resource (HR) practices that organisations introduce to attract and motivate employees to stay with the organisation (Coetzee, Oosthuizen, & Stoltz 2016; Kumar & Santhosh, 2014, Shibiti, 2017). Retention factors enhance employees' performance (Coetzee et al., 2016; Kumar & Santhosh, 2014; Van Dyk, Coetzee, & Takawira, 2013) and influence employees' turnover intentions. Hence, such factors should be considered while formulating retention strategies (Dhanpat, Modau, Lugisani, Mabojane, & Phiri, 2018; Van Dyk et al., 2013). Management is responsible for identifying and implementing HR interventions, which should discourage employees from leaving the organisation (Tourangeau, Patterson, Saari, Thomson, & Cranley, 2017). A lack of these HR interventions in an organisation may lead to employee turnover (Coetzee & Pauw, 2013; Cohen, Cavazotte, Da Costa, & Ferreira, 2017; Tourangeau et al., 2017). Table 1 highlights retention factors identified by different researchers.

This study adopted the six retention factors identified by Döckel (2003). These retention factors are described as follows:

- 1. *Compensation* relates to the desirability of the salary package, organisational remuneration policies and the value of benefits.
- 2. *Job characteristics* relate to the features of the job, for example, diverse work, prospects for resolving complex problems, working with talented employees, flexibility, freedom and opportunities to work on challenging projects.

TABLE 1: Factors that enhance employee retention in organisations.

Author	Retention factors
Döckel (2003)	Compensation, job characteristics, training and development opportunities, supervisor support, career opportunities and work or life balance
Coetzee and Stoltz (2015); Davidescu and Issa Eid (2017); Kumar and Santhosh (2014); Lyria, Namusonge and Karanja (2017)	Work-life balance, compensation, opportunities for career growth and development, the opportunity to use one's skills and knowledge in the company, and challenging work
Mohammad (2015)	Employee involvement, provision of trust-based inspirational leadership, fair compensation, orientation, health and safety programmes, training programmes, fair rewards or incentives, developing grievance-handling mechanisms, flexibility in working hours, coaching, mentoring and maintaining positive relationships between employees
Roy (2015)	Offering employees an optimal working environment, career growth opportunities, rewards, work–life balance and supervisor support that is inspirational
Pek-Greer and Wallace (2017)	Employee benefits, employee remuneration, professional development opportunities and work environment
Coetzee and Pauw (2013); Tourangeau et al. (2017)	A safe and non-toxic work environment, a conducive work relationship between managers and subordinates, and rewards to employees for good performance

Note: Please see the full reference list of the article, Shibiti, R. (2020). Public school teachers' satisfaction with retention factors in relation to work engagement. SA Journal of Industrial Psychology/SA Tydskrif vir Bedryfsielkunde, 46(0), a1675. https://doi.org/10.4102/sajip. v46i0.1675. for more information.

- Training and development opportunities relate to training that is job-specific, prospects for personal growth and development, and transfer of learning in the work environment.
- 4. Supervisor support relates to the feedback that supervisors provide to their subordinates with regard to their personal performance, praise and appreciation, reward and acknowledgement of outstanding performance.
- 5. *Career opportunities* relate to advancement and individual career development opportunities within the organisation.
- 6. Work-life balance can be defined as one's opportunity to balance work and life commitments.

The retention factors identified by Döckel (2003) are essential to employee retention in the South African environment (Dhanpat et al., 2018; Döckel, 2003; Van Dyk & Coetzee, 2012). Implementation and practices of the interventions should inspire employees to give their best and discourage them from leaving the organisation. The next section discusses work engagement and the way in which work engagement improves employee retention.

Work engagement

Work engagement evolved from Kahn's (1990) personal engagement theory and has been a leading research focus area in the field of organisational behaviour, and it owes its origin to its relationship with different positive organisational outcomes (Nishi, Suzuki, Nishida, Mishima, & Yamanouchi, 2017; Presbitero, 2017; Wang, Liu, Zou, Hao, & Wu, 2017). The variable is defined diversely because of the varying perspectives held by consultants, academic scholars and practitioners, with the definitions differing in depth and scope (Bailey, Madden, Alfes, & Fletcher, 2017). For the purpose of this study, work engagement encompasses a positive, fulfilling, work-related state of mind that is characterised by vigour, dedication and absorption (Du Plessis & Boshoff, 2018; Kallioniemi, Kaseva, Kolstrup, Simola, & Kymäläinen, 2018; Kulikowski, 2019; Mitonga-Monga & Hlongwane, 2017; Reitz, 2014; Schaufeli & Bakker 2004; Schaufeli et al., 2002; Van Dyk et al., 2013).

Vigour can be defined as high levels of energy and mental resilience while working, the willingness to invest effort in one's work and persistence even in the face of adversities (Du Plessis & Boshoff, 2018; Kallioniemi et al., 2018; Malik, Shahzad, & Raziq, 2019; Mitonga-Monga & Hlongwane, 2017; Schaufeli & Bakker 2004; Schaufeli et al., 2002). Dedication can be defined as being involved in one's work and experiencing a sense of significance, enthusiasm and challenge (Du Plessis & Boshoff, 2018; Kallioniemi et al., 2018; Malik et al., 2019; Mitonga-Monga & Hlongwane, 2017; Schaufeli & Bakker, 2004; Schaufeli et al., 2002; Van Dyk et al., 2013). Absorption can be defined as being fully concentrated and happily immersed in one's work whereby time passes quickly (Du Plessis & Boshoff, 2018; Malik et al., 2019; Schaufeli & Bakker, 2004; Schaufeli et al., 2002).

Effective human resource management (HRM) practices can influence levels of work engagement and improve the client's service quality, satisfaction and retention; offer a distinctive competitive advantage; and improve the performance of the organisation (Burke, Koyuncu, Fiksenbaum, & Tekin, 2013). The existence of job resources (e.g. collaboration with colleagues, the opportunity to use different skills, performance feedback and training) and personal resources (e.g. self-esteem, optimism, feelings of confidence and efficacy) lead to high levels of employee work engagement (Burke et al., 2013). Work engagement increases when the following three psychological states are present (Kahn, 1990; Petchsawang & McLean, 2017):

- 1. psychological meaningfulness (the sense of a fruitful outcome of investment of the self in role performance)
- psychological safety (self-assurance in displaying self without fear or negative repercussions to self-image, status or career)
- 3. psychological availability (the certainty that a person may embark on a role with the emotional, psychological and physical resources required to perform a task).

Work engagement has been linked strongly with employee retention in the literature (Coetzee et al., 2016; Takawira, Coetzee, & Schreuder, 2014). Furthermore, improving the work engagement of employees is important for HR managers, as it enhances organisational productivity, increases retention, decreases absenteeism and enhances the well-being of employees (Du Plessis & Boshoff, 2018). Furthermore, increasing work engagement therefore requires an understanding of related influences from an HRM perspective. A literature review revealed that there is little scientific knowledge on the theoretical and empirical relationship between retention factors and work engagement in the South African public schools context. Hence, there is the need for an empirical study such as the present work to establish the relationship between retention factors and work engagement, and the likely results of using retention factors and work engagement to improve employee retention. The following research question has been formulated in line with the identified gap: is there a significant relationship between retention factors and work engagement of teachers working in Tshwane Municipality public schools?

Hypotheses

The following three hypotheses were set for this study:

H1: Retention factors positively and significantly correlate with work engagement.

H2: Retention factors positively and significantly predict work engagement.

H3: Retention factors positively and significantly predict the three sub-factors of work engagement, namely, vigour, dedication and absorption.

The next section of the article focusses on the research method, which includes the discussion about the participants and research settings, the measuring instruments, ethical considerations, statistical analysis, followed by a presentation of the results. The article then discusses the findings and concludes with the main conclusions, implications for practice and recommendations for potential future research.

Research method

Participants and setting

The study was quantitative (non-experimental) in nature, and a survey was conducted. A convenience sampling technique was used with 708 questionnaires distributed to teachers in Tshwane Municipality public schools. The participants were selected based on their availability and convenience. A total of 303 questionnaires were collected, but 25 questionnaires were excluded from the final analysis, as they were either unfinished or spoilt. The final sample consisted of 278 teachers, resulting in a response rate of 39%.

Measuring instruments

Döckel's (2003) Retention Factors Measurement Scale (RFMS) was used to measure employees' satisfaction with retention factors. The RFMS contains items that measure employees' satisfaction with compensation, job characteristics, training and development opportunities, supervisor support, career opportunities and work-life policies (Coetzee & Stoltz, 2015; Döckel, Basson, & Coetzee, 2006; Shibiti, 2017). The RFMS in this study used a five-point Likert-type scale ranging from (1) 'strongly dissatisfied' to (5) 'strongly satisfied'. The retention factors in the work of Dhanpat, Manakana, Mbacaza, Mokone and Mtongana (2019) had the following acceptable reliability results: compensation (0.97), job content (0.67), training and development (0.92), supervisor support (0.82), career advancement (0.85), work-life balance (0.88), work environment (0.91) and job security (0.79). In the context of this study, the RFMS provided a reliability coefficient of 0.93, therefore proving itself reliable.

Utrecht Work Engagement Scale (Utrecht Work Engagement Scale [UWES]-17), developed by Schaufeli and Bakker (2004), was used to measure work engagement. The UWES-17 measures employees' level of absorption, dedication and vigour at work (Kulikowski, 2019; Schaufeli & Bakker 2004; Vallières, McAuliffe, Hyland, Galligan, & Ghee, 2017). The UWES used a five-point Likert-type scale ranging from (1) 'strongly disagree' to (5) 'strongly agree' (Petchsawang & McLean, 2017). The UWES-17 was relevant to this study, as the three sub-scales of the instrument have been found to be constant over time and reliable across samples from diverse contexts (Burke et al., 2013; Schaufeli & Bakker, 2004). The initial reliability of the UWES-17 was found to be 0.93 (Schaufeli & Bakker, 2004), which is comparable to the reliability of the UWES-17 as found in this study (0.95), thus proving itself reliable in this context.

Research procedure and ethical consideration

The results presented in this research form part of a Master of Commerce study that was conducted at the University of South Africa (Unisa) by the author of this article. Permission was attained from the Research, Ethics and Innovation Committee (DREC) of the Department of Human Resource Management, Unisa, and the Department of Basic Education (Gauteng: Department of Education and Tshwane North District). Questionnaires were circulated to teachers together with envelopes and a cover letter. The cover letter provided contact details of the student and the supervisors, and explained the purpose of the study and the ethical standards followed in the study. Prudent measures were implemented to guarantee the anonymity and privacy of participants during the process of collecting, analysing and interpreting the data. Therefore, the findings cannot be linked to the individual participants.

Statistical analysis

The Statistical Package for Social Sciences (SPSS), Version 23, was used to analyse the data. Pearson's product moment correlations and multiple regression analysis were conducted to determine the correlations between retention factors and work engagement, and to establish whether retention factors (independent) predicted work engagement (dependent). To establish the statistical significance and counter the probability of type 1 errors, the confidence interval level was set at 95% ($p \le 0.05$) and the practical effect size at $r \ge 0.30 \ge 0.50$ (medium to large effect) (Mitonga-Monga & Cilliers, 2015; Tredoux & Durrheim, 2013).

Results

Descriptive statistics

This section reports on the means, standard deviations and the reliability of the two instruments that were used in this study. Table 2 provides the means, standard deviations and Cronbach's alpha for the retention factors and work engagement variables. The mean and standard deviation for RFMS were $3.08\,(M)$ and $0.51\,(SD)$, respectively. This indicates that the participants were unsure about their satisfaction with retention factors provided by their organisation. The UWES mean and standard deviation were $3.87\,(M)$ and $0.72\,(SD)$, respectively. This indicates that the participants were moderately engaged in their work. Apart from two sub-items of retention factors, namely, supervisor support (r=0.50) and

TABLE 2: Descriptive statistics for Retention Factors Measurement Scale and Utrecht Work Engagement Scale.

Variables	Mean	Standard deviations	Cronbach's alpha
RFMS	3.08	0.51	0.91
Compensation	2.95	0.91	0.97
Job characteristics	3.15	0.53	0.48
Training and development	3.43	0.84	0.90
Supervisor support	2.95	0.55	0.50
Career opportunities	3.19	0.65	0.65
Work-life balance	2.91	1.00	0.88
UWES	3.87	0.72	0.95
Vigour	3.79	0.77	0.89
Dedication	4.03	0.81	0.90
Absorption	3.81	0.79	0.88

RFMS, Retention Factors Measurement Scale; UWES, Utrecht Work Engagement Scale.

job characteristics (r = 0.48), which were below 0.60, both RFMS and UWES were found to be reliable ($r \ge 0.60$).

Correlations analysis

The correlations between retention factors and work engagement were calculated by computing the Pearson's product moment correlations. To determine the statistical significance, the confidence interval level was set at 95% ($p \le 0.05$) and the cut-off practical effect size was $r \ge 0.30 \ge 0.50$ (medium to large effect) (Tredoux & Durrheim, 2013). Table 3 illustrates the Pearson product moment correlations between RFMS and UWES.

Table 3 demonstrates that RFMS significantly and positively correlates with UWES (r=0.60; large effect; $p\leq0.001$). The results also indicated that, overall, RFMS correlated significantly with vigour (r=0.60; large effect; $p\leq0.001$), dedication (r=0.54; large effect; $p\leq0.01$) and absorption (r=0.49; medium effect; $p\leq0.01$), as given in the top row of Table 3. Therefore, Hypothesis 1 is accepted.

Multiple regressions analysis

Table 4 illustrates the results of the multiple regression analyses that were conducted to establish whether retention factors positively and significantly predict work engagement. For multiple regressions to take place, multicollinearity needs to be evaluated. Multicollinearity refers to the relationship between two or more independent variables, and it happens when the independent variables are highly correlated (r > 0.90) (Mitonga-Monga, 2015). The present study made use of tolerance and variance inflation factor (VIF) to test for the assumptions of multicollinearity. Tolerance values that are less than 0.10 and VIF above 10 suggest that there is a possible multicollinearity problem (Hair, Black, Babin, & Anderson, 2010). No concerns of multicollinearity were detected in the tests as shown in Tables 4–7.

The regression models were generated and were found to be statistically significant (Fp < 0.05), as highlighted in the subsequent sections. The model contributed 40% ($R^2 = 0.40$:

work engagement) of the variance in the work engagement variable. In Model 1 (UWES), compensation (β = 0.32; p = 0.001), training and development (β = 0.28; p = 0.001), and career opportunities (β = 0.19; p = 0.01) acted as significant positive predictors of overall work engagement, with compensation, training and development, and career opportunities contributing the most towards explaining the variance in overall work engagement. Therefore, Hypothesis 2 is accepted.

Model 2 (vigour) in Table 5 revealed that compensation ($\beta = 0.35$; p = 0.001), training and development ($\beta = 0.26$; p = 0.001) and career opportunities ($\beta = 0.16$; p = 0.01) act as significant positive predictors of vigour, with compensation, career opportunities, and training and development, contributing the most to explaining the variance in vigour.

Model 3 (dedication) in Table 6 shows that compensation ($\beta = 0.26$; p = 0.001), training and development ($\beta = 0.31$; p = 0.001) and career opportunities ($\beta = 0.15$; p = 0.05) acted as significant positive predictors of dedication, with training and development, compensation and career opportunities, contributing the most in explaining the variance in dedication.

TABLE 4: Multiple regression analysis: Retention Factors Measurement Scale as a predictor of Utrecht Work Engagement Scale (N = 278).

Variable	Model 1: UWES							
	В	β	p	Tolerance	VIF	df	Mean square	Value
Constant	29.34	-	-	-	-	-	-	-
Compensation	0.33	0.32***	0.00	0.721	1.386	-	-	-
Job characteristics	0.03	0.01	0.93	0.695	1.439	-	-	-
Training and development	0.67	0.28***	0.00	0.565	1.769	-	-	-
Supervisor support	-0.10	-0.03	0.59	0.753	1.327	-	-	-
Career opportunities	0.61	0.19**	0.01	0.603	1.657	-	-	-
Work or life balance	-0.02	-0.01	0.91	0.915	1.093	-	-	-
F	-	-	-	-	-	6	2782.54	31.07***
R	-	-	-	-	-	-	-	0.64
R^2	-	-	-	-	-	-	-	0.41
Adjusted R ²	-	-	-	-	-	-	-	0.40§
Standard error of the estimate	-	-	-	-	-	-	-	9.46

 β , standardised regression coefficient; B, unstandardised regression coefficient; UWES, Utrecht Work Engagement Scale; VIF, variance inflation factor; df, degrees of freedom.

 TABLE 3: Correlations between the Retention Factors Measurement Scale and Utrecht Work Engagement Scale (N = 278).

Variables	RFMS	Compensation	Job characteristics	Training and development	Supervisor support	Career opportunities	Work/life balance	UWES	Vigour	Dedication	Absorption
RFMS	1	0.84***	0.50***	0.74***	0.38**	0.68***	0.17*	0.60***	0.60***	0.54***	0.49**
Compensation	-	1	0.26*	0.51***	0.08	0.37**	-0.09	0.53***	0.55***	0.47**	0.42**
Job characteristics	-	-	1	0.34**	0.43**	0.42**	0.03	0.25*	0.25*	0.22*	0.22*
Training and development	-	-	-	1	0.13*	0.55***	-0.10*	0.55***	0.54***	0.52***	0.43**
Supervisor support	-	-	-	-	1	0.28*	0.24*	0.09	0.07	0.10*	0.08
Career opportunities	-	-	-	-	-	1	0.06	0.46**	0.43**	0.41**	0.40**
Work or life balance	-	-	-	-	-	-	1	-0.06	-0.07	-0.07	-0.02
UWES	-	-	-	-	-	-	-	1	0.90***	0.92***	0.90***
Vigour	-	-	-	-	-	-	-	-	1	0.77***	0.67***
Dedication	-	-	-	-	-	-	-	-	-	1	0.76***
Absorption	-	-	-	-	-	-	-	-	-	-	1

 $r \ge 0.29$ (small effect); $r \ge 0.30 \ge r \le 0.49$ (medium effect); $r \ge 0.50$ (large effect).

^{†,} $R^2 \le 0.12$ (small practical effect size); ‡, $R^2 \ge 0.13 \le 0.25$ (medium practical effect size); \S , $R^2 \ge 0.26$ (large practical effect size).

^{**,} $p \le 0.01$; ***, $p \le 0.001$.

RFMS, Retention Factors Measurement Scale; UWES, Utrecht Work Engagement Scale.

^{*,} $p \le 0.05$; **, $p \le 0.01$; ***, $p \le 0.001$.

TABLE 5: Multiple regression analysis: Retention Factors Measurement Scale as a predictor of vigour (N = 278).

Variable	Model 2: Vigour							
	В	β	p	Tolerance	VIF	df	Mean square	Value
Constant	9.44					-	-	-
Compensation	0.14	0.35***	0.00	0.721	1.386	-	-	-
Job characteristics	0.04	0.020	0.73	0.695	1.439	-	-	-
Training and development	0.24	0.26***	0.00	0.565	1.769	-	-	-
Supervisor support	-0.07	-0.05	0.35	0.753	1.327	-	-	-
Career opportunities	0.19	0.16**	0.01	0.603	1.657	-	-	-
Work or life balance	-0.01	-0.01	0.81	0.915	1.093	-	-	-
F	-	-	-	-	-	6	403.72	31.07***
R	-	-	-	-	-	-	-	0.64
R^2	-	-	-	-	-	-	-	0.41
Adjusted R ²	-	-	-	-	-	-	-	0.40§
Standard error of the estimate	-	-	-	-	-	-	-	3.61

 β , standardised regression coefficient; B, unstandardised regression coefficient; VIF, variance inflation factor; df, degrees of freedom.

TABLE 6: Multiple regression analysis: Retention Factors Measurement Scale as a predictor of dedication (N = 278).

Variable			M	odel 3: De	dicatio	on		
	В	β	р	Tolerance	VIF	df	Mean square	Value
Constant	9.17					-	-	-
Compensation	0.09	0.26***	0.00	0.721	1.386	-	-	-
Job characteristics	-0.05	-0.023	0.69	0.695	1.439	-	-	-
Training and development	0.25	0.31***	0.00	0.565	1.769	-	-	-
Supervisor support	0.01	0.01	0.85	0.753	1.327	-	-	-
Career opportunities	0.16	0.15*	0.02	0.603	1.657	-	-	-
Work or life balance	-0.02	-0.02	0.68	0.915	1.093	-	-	-
F	-	-	-	-	-	6	263.08	23.71***
R	-	-	-	-	-	-	-	0.59
R2	-	-	-	-	-	-	-	0.25
Adjusted R ²	-	-	-	-	-	-	-	0.33§
Standard error of the estimate	-	-	-	-	-	-	-	3.33

standardised regression coefficient; \emph{B} , unstandardised regression coefficient; VIF, variance inflation factor; \emph{df} , degrees of freedom.

Model 4 (absorption) in Table 7 shows that compensation ($\beta = 0.25$; p = 0.001), training and development ($\beta = 0.19$; p = 0.01) and career opportunities ($\beta = 0.21$; p = 0.01) acted as significant positive predictors of absorption, with compensation, training and development, and career opportunities, contributing the most to explaining the variance in absorption.

Models 2–4 in Tables 5–7 show the results for the multiple regression analyses that were conducted to establish whether retention factors positively and significantly predict vigour, dedication and absorption, respectively. Three additional regression models were generated, and all of them were found to be statistically significant ($Fp \leq 0.05$). The models contributed 40% ($R^2 = 0.40$: vigour), 33% ($R^2 = 0.33$: dedication) and 25% ($R^2 = 0.25$: absorption) of the variance in the variables of these three sub-factors of work engagement. Therefore, Hypothesis 3 is accepted.

TABLE 7: Multiple regression analysis: Retention Factors Measurement Scale as a predictor of absorption (N = 278).

Variable	Model 4: Absorption								
	В	β	р	Tolerance	VIF	df	Mean square	Value	
Constant	10.73					-	-	-	
Compensation	0.10	0.25***	0.00	0.721	1.386	-	-	-	
Job characteristics	0.03	0.01	0.83	0.695	1.439	-	-	-	
Training and development	0.18	0.19**	0.01	0.565	1.769	-	-	-	
Supervisor support	-0.05	-0.03	0.57	0.753	1.327	-	-	-	
Career opportunities	0.25	0.21**	0.00	0.603	1.657	-	-	-	
Work or life balance	0.02	0.02	0.76	.915	1.093	-	-	-	
F	-	-	-	-	-	6	277.19	16.66***	
R	-	-	-	-	-	-	-	0.52	
R^2	-	-	-	-	-	-	-	0.27	
Adjusted R ²	-	-	-	-	-	-	-	0.25§	
Standard error of the estimate	-	-	-	-	-	-	-	4.08	

VIF. variance inflation factor.

 β , standardised regression coefficient; B, unstandardised regression coefficient; VIF, variance inflation factor; df, degrees of freedom.

Discussion

Outline of the results

The first objective of this study aimed to determine whether retention factors positively and significantly correlate with work engagement. The correlation results revealed that retention factors correlated with work engagement, implying that the participants who were satisfied with the retention factors appeared to have a high level of work engagement. The findings support Presbitero's (2017) assertion that enhancing HRM practices, particularly compensation, training and development, may improve work engagement of employees. In terms of the second objective, three sub-factors of retention factors, namely, compensation, training and development, and career opportunities correlated with vigour, dedication and absorption. This suggested that the participants who were happy with their opportunities in these three retention factors were more vigorous, dedicated and absorbed in their work. However, this study found no significant correlations between perceived supervisor support and vigour and absorption. The finding differs from those of various authors, which revealed that supervisor support correlates with work engagement (Palo & Rothmann, 2016; Rothmann & Fouché, 2018; Schaufeli & Bakker, 2004). Moreover, no significant correlations were found between the perceived satisfaction with work or life balance arrangement and vigour, dedication and absorption. Nevertheless, other researchers have proposed that organisations could provide employees with flexible working arrangements to develop their vigour and dedication (Coetzee, Schreuder, & Tladinyane, 2014; Rudolph & Baltes, 2017).

The second objective aimed to determine whether retention factors positively and significantly predict work engagement. The multiple regression results revealed that retention factors predict work engagement. The third objective aimed to determine

^{†,} $R^2 \le 0.12$ (small practical effect size); ‡, $R^2 \ge 0.13 \le 0.25$ (medium practical effect size); $\S, R^2 \ge 0.26$ (large practical effect size).

^{*,} $p \le 0.05$; **, $p \le 0.01$; ***, $p \le 0.001$.

^{†,} $R^2 \le 0.12$ (small practical effect size); ‡, $R^2 \ge 0.13 \le 0.25$ (medium practical effect size); §, $R^2 \ge 0.26$ (large practical effect size).

^{*,} $p \le 0.05$; **, $p \le 0.01$; ***, $p \le 0.001$.

^{†,} $R^2 \le 0.12$ (small practical effect size); ‡, $R^2 \ge 0.13 \le 0.25$ (medium practical effect size); §, $R^2 \ge 0.26$ (large practical effect size).

^{**,} $p \le 0.01$; ***, $p \le 0.001$.

whether the six sub-factors of retention factors, namely, compensation, job characteristics, training and development opportunities, supervisor support, career opportunities and work or life balance positively and significantly predict the three sub-factors of work engagement, namely, vigour, dedication and absorption. The results revealed that compensation, training and development, and career opportunities contribute more in explaining the difference in employees' level of vigour, dedication and absorption (Shibiti, 2017). This suggests that when employees are satisfied with their compensation, training and development, and career opportunities in their organisation, they are more likely to display high levels of work engagement. The findings support Mendes and Stander's (2011) contention that employees are prone to display positive affective responses, such as emotional energy, physical strength and cognitive liveliness, when their work is meaningful, when they receive regular developmental opportunities and when they are provided with clear performance objectives.

Limitations of the study

The following limitations of the empirical study should be considered when interpreting the findings:

- The study was restricted to 278 teachers working in Tshwane Municipality public schools. Convenience sampling was used to choose the participants. Therefore, it is not possible to generalise the results of this study to all populations and different work environments. If the findings are to be representative of the total workforce, quantitative studies similar to this study should be conducted with more participants, bearing in mind the large number of teachers in public schools.
- The study was cross-sectional in nature, and as a result, it
 was not possible to draw inferences about the cause and
 effect relationship between the two variables. Hence, the
 findings were interpreted rather than established.
- Three sub-factors of retention factors, namely, job characteristics, supervisory support and career opportunities produced low reliability scores. The low reliability scores can be attributed to the relatively moderate sample size, as previous research has confirmed the validity and reliability of these items in different contexts.

Nevertheless, the findings of this study provided new knowledge on the relationship between satisfaction with retention factors and work engagement, as it applies to the public school context in South Africa.

Practical implications and recommendations

The results from this study provide solid implications for employers in need of effective employee retention strategies. The main practical contribution of this work is the way in which it demonstrates that retention factors correlate with and predict work engagement. The findings confirmed the need to consider retention factors in the public school context to understand the work engagement of public

school teachers. Organisations should provide their employees with improved compensation, training and development, and career opportunities, as this may improve employees' vigour, absorption and dedication at work. Consequently, organisations should determine whether employees are satisfied with these factors, as provided in the organisation.

Future studies

This study demonstrated that there is a serious need for further research into the relationship between retention factors and work engagement. It is recommended that future research should apply strategies to mitigate the limitations identified in this study. The study was restricted to 278 teachers working in Tshwane Municipality public schools and, as such, future research should use a randomised sampling process with larger samples and include different occupational fields, races, genders and ages.

This study was cross-sectional in nature, and it was therefore not possible to determine cause and effect relationships between the variables under study. Consequently, longitudinal studies are recommended to determine the influence of satisfaction on retention factors and work engagement in different organisations. Future research should conduct test-retest reliability to validate the reliability of the measuring instruments that were used. Different methodologies or combination of methods, both qualitative and quantitative, should be considered, which would result in a broader understanding of the relationship between satisfaction with retention factors and work engagement. Furthermore, demographic information should also be used as moderating variables in an investigation into the relationships between satisfaction with retention factors and work engagement.

Conclusion

The purposes of this study were to determine the relationship between retention factors and work engagement, and to establish whether retention factors positively and significantly predict work engagement. The empirical statistical relationship that was found between retention factors and work engagement provided new understanding with respect to the retention of employees in an organisation. This study concludes that retention factors play an important role in explaining employees' vigour, absorption and dedication in the workplace. Individuals who are satisfied with compensation, training and development, and career opportunities are more likely to display a high level of work engagement. This strongly suggests that retention factors should be considered in the development of a behavioural model for both retention and performance practices.

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Competing interests

The author declares that there is no financial or personal relationships that may have inappropriately influenced the writing of this article.

Authors' contributions

I declare that I am the sole author of this research article.

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Data availability statement

Data sharing is not applicable to this article.

Disclaimer

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