

Ethical Climate and Job Satisfaction via Mediating Role of Organisational Commitment (Case Study: Tutors in Ghana)

Samuel Obed Amoah ^a, Henry Yaw Acheampong ^a, Edwin Adjei ^b and Francis Britwum ^{c*}

^a *Department of Education Studies, St. Monica's College of Education, Ghana.*

^b *Department of Education Studies, Agona SDA College of Education, Ghana.*

^c *Department of Education and Psychology, University of Cape Coast, Ghana.*

Authors' contributions

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

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ABSTRACT

Aims: Ethical climate is one of the vital features shaping intra-organisational relationships and tutors attitudes, thereby having an influence on organisational outcomes. Therefore, understanding the relationships among ethical climate, job satisfaction and organisational commitment is an important research area that needs to be researched. The main purpose of the study was to examine ethical climate and job satisfaction via mediating role of organisational commitment among College of Education tutors in Ghana.

Study Design: The descriptive cross-sectional survey design was employed in the study.

Place and Duration of Study: The study was carried out from 2019 to 2020, among College of Education tutors in Ghana.

Methodology: The quantitative approach with the positivist paradigm was adopted for the study. A total of 250 participants through a multistage sampling procedures (proportionate and simple random sampling) were used in the study. Ethical climate questionnaire, job satisfaction scale and organisational commitment questionnaire were adapted and used in the study. Validation of the instruments were carried out using Confirmatory factor analysis (CFA).

Results: The results revealed that ethical climate was a substantial predictor of job satisfaction, [b

= 1.11; SE = .009; *Boot95%CI* (.1.091, 1.128)]. The result discovered that a surge in ethical climate would lead to 1.11 increase in job satisfaction. The results again, showed that the direct effect of organisational commitment on job satisfaction was statistically significant, B = 1.108, *Boot95%CI* [1.090, 1.127]. Further, with the introduction of organisational commitment, the indirect effect of ethical climate on job satisfaction was not statistically significant, B = .0011, *Boot95%CI* [-.0011, .0043]. This suggests that organisational commitment does not mediate the relationship between ethical climate and job satisfaction.

Conclusion: This study confirms the relationship between ethical climate and job satisfaction among tutors in the Colleges of Education. When the ethical climate of tutors increases the likelihood tutors would be satisfied with their teaching job.

Keywords: Ethical climate; job satisfaction; organisational commitment; tutors in Ghana.

1. INTRODUCTION

Ethical climate is deemed important for a successful institution particularly in the Colleges of Education. Positive ethical climate enables respectable working interactions between the principal's in the Colleges of Education and tutors, whereby tutors could experience efficient communication, innovation, team spirit, and decentralized decision making processes. Tutors interpret their work environments in different ways, and these interpretations play a critical role in determining how they behave and how they view the world [1]. Understanding tutors behaviour requires understanding the climate. We frequently have a limited knowledge of "why tutors do the things they do" without understanding the school environment and how tutors view that setting [2]. "Institutions for instance, Colleges of Education are gradually giving attention to matters related to ethics. Ethical values may change from one institution to another institution. So there may be the need for the principals in the Colleges of Education to make definite ethical codes and support tutors for ethical behaviours to manage institutional outcomes" [3]. "Ethical climate makes an environment that enhances ethical values, clarifies role ambiguities, and provides a clear direction for ethical decision in ethical situations enabling tutors to enjoy their work" [4]. "If tutors perceive a satisfactory ethical climate they are also likely to have a higher level of job satisfaction" [4].

A person's behaviour is shaped by a system of norms and standards known as ethics [5]. Climate is concerned with an individual's viewpoints and sentiments regarding their workplace [6]. By combining these two definitions, Victor and Cullen [7] described ethical climate as "generic and pervasive qualities of organisations, affecting a broad variety of

decisions." Consequently, ethical climate offers tutors direction on what to do in ethical situations. "Agreement among members (tutors) of an institution regarding what institutional practice and procedures actually signify in terms of expected ethical behaviour" is referred to as ethical climate [8]. The ethical climate of an institution is directly correlated with both the positive behaviours and a variety of negative work behaviours such as tardiness, absenteeism, and lax performance [9-10]. Additionally, negative workplace behaviours are associated with decreased job satisfaction, decreased organisational commitment, decreased creativity, stagnant productivity, increased antisocial behaviour, and increased staff turnover [11]. If code of ethics is established and upheld in higher educational institutions particularly in the Colleges of Education, issues of unethical behaviours may be addressed [12]. Due to the dedication, emotional labor, and strong intrinsic values required in the teaching profession, for example, tutors' feelings and emotions about their work can influence how they perceive the ethical climate or how they are affected by it [13]. As a result, it would be paramount to concentrate on tutors if we attempt examining the ethical climate in schools.

One key component of an institution's well-being is job satisfaction. This is demonstrated by a tutor who finds his or her work rewarding and delightful and treats it as such, as opposed to a tutor who withholds his or her devotion out of a sense of dissatisfaction [14]. How people view their work and various facets of it determines their level of job satisfaction. This is the level to which people find certain characteristics of their work, such as "working for themselves," "pay," "promotion of chances," "control," and "cooperation," to their liking or disliking [15]. According to Luthans [16], job satisfaction is an enjoyable or pleasant emotional state brought on

by an evaluation of one's work or professional experience. Thus, tutor's assessment of how well their task is done, which is regarded vital, determines job contentment. The term "job satisfaction" describes the fulfillment, gratification, or contentment that comes from having a particular employment [17]. Lambeck, Smither, and Johnston [18], asserted that like self-realization, majority of people appear to have a greater need. As a result, individuals who desperately need a job are content as long as it can provide for their necessities.

A tutor's relationship with an institution determines how they are committed to that institution is termed as organisational commitment [19]. Organisational commitment is the degree of emotional and practical attachment to one's current workplace [20]. Tutors that feel valued at work are more likely to be productive and perform better than undervalued tutors [21]. Having an organisational commitment also means that the person believes that institution's aims and objectives are legitimate and deserving of their best efforts. As a result, people who have a high level of organisational commitment are eager to work hard for the institution and support its objectives and core values [22]. A dedicated tutor should be able to operate more autonomously, make wise decisions for the institution even under challenging circumstances, and go beyond the call of duty. Additionally, it is believed that a devoted tutor would be more productive, take fewer sick leaves, and is less likely to leave the institution for another [23]. As a result, those who are devoted to the institution are more inclined to go extra mile to accomplish institutional goals, some of which may involve using creativity in the workplace [24]. Klein and Izzo [25] asserted that institutions and employees (tutors) experience commitment crisis. And that, there is a widening gap between employee (tutors) dedication and what employers (principals) expect from them in many institutions [26]. At the same time employers (principals) seem to depend more than ever on committed employees (tutors) since the cost for recruitment and training are higher than the efforts for retraining existing employees.

Several studies have postulated that organisational commitment is made up of three elements [27,28,29,30]. These elements include normative, affective, and continuance commitment. The sense of duty to stay in an institution is the normative component, and because it entails a sense of responsibility to the

institution, it can have a moral or ethical component. The organisation's level of likeability, which fosters an emotional bond and increased identification with the institution, makes up the affective component [29] while the perception of challenges that can arise from leaving an institution and the advantages or rewards from staying with the institution make up the continuance component [31]. The three elements of organisational commitment are independent of one another and are each influenced by various antecedent conditions. The three elements add up to a person's overall dedication to the organisation when taken into account [32].

Evidence signified that tutors would be more satisfied and stay in their teaching jobs if they had been more committed to the institutional values and goals [33]. Therefore, principals at the Colleges of Education must pay extra devotion in meeting the tutors' needs at work, so that they could have higher morale, job satisfaction, and organisational commitment. One of the steps to be taken is provision of an appropriate moral environment within the institution. An ethical climate shows tutors' understanding of their institution, affects their behaviour and perception, and provides the ground for decision making and behaviours [34]. In an ethical climate with humanitarian values, choice, and sense of belonging, tutors are more satisfied with and committed to the organisation [35]. As a result, tutors' commitments include student's tutor relationship, reduced leaving of the profession, and reduced absenteeism [36]. Hence the need to examine whether organisational commitment could mediate between ethical climate and job satisfaction among College of Education Tutors in Ghana.

1.1 Statement of the Problem

An institution's ethical climate orders its ethical standards and the behaviours anticipated, and has been shown to impact the ethicalness of its members [37]. It has long been suggested that ethics should be integrated into the institutions, thereby creating an ethical climate within the institution [38]. Today's institutions are likely to contain climates that run anywhere from very ethical to very unethical. A national survey of 4000 business employees found that 25% believed that their companies ignore ethical conduct to meet business objectives, and nearly 17% stated that their company overtly encourages misconduct to meet business objectives [39]. While such evidence suggests

that unethical climates exist, it conversely implies that not all institutions' climates are perceived as unethical. Institutions (Colleges of Education) that exhibit strong ethical values may benefit from having more committed tutors in the institution [40].

Research studies indicate that there is a positive relationship between ethical climate and job satisfaction [41]. These researchers further highlighted an interaction between ethical climate, and job satisfaction. This suggest that there is a positive association between ethical climate, and job satisfaction. However, majority of these studies on ethical climate and job satisfaction have been undertaken at the healthcare organisations and business administration [42,43]. For instance, research indicates that ethical climate is connected to a number of aspects of tutor's job satisfaction namely prospects for promotion, interactions with coworkers, supervisors, and managers [44,45, 46,47]. These conclusions are supported by a meta-analysis by Martin and Cullen [48], who showed a high correlation between ethical climate and job satisfaction among healthcare professionals. The directionality of the relationship between ethical climate and job satisfaction would depend on the kind of ethical environment that tutors perceive, given the range of ethical climates that can develop. According to Martin and Cullen's [48], instrumental climates had the opposite effect of caring climates in terms of enhanced pleasure, while law and code climates showed a strong positive link with greater satisfaction. Despite the fact that job satisfaction and ethical climate are associated, little study has been done on these topics in the educational institutions (schools), particularly among College of Education tutors in Ghana [49]. Hence, the need for this study.

Again, majority of the research conducted on ethical climate and job satisfaction were done in the Western world with a marginal proportion conducted in Africa particularly West Africa and Ghana to be specific [50]. Also, despite the numerous cultural commonalities among countries, there are also a wide range of cultural distinctions that exist between human societies [50]. This has however made it pertinent to carry out such a study in Ghana. A significant number of scholars have also noted that organisational commitment is connected to ethical climate and job satisfaction [51,52]. Moore [42], for instance, looked at the connection between organisational commitment, ethical climate, and job satisfaction

of full-time faculty members and concluded that there is a relationship between the three constructs. Zehir, Erdogan, and Basar [53] also took into account ethical climate as an antecedent variable for both job satisfaction and organisational commitment. These results have come to our attention that there is the possibility that organisational commitment may serve as a mediator in the relationship between ethical climate and job satisfaction. Therefore, this study, attempts to fill the gap by examining ethical climate and job satisfaction among College of Education tutors in Ghana via mediating role of organisational commitment. The main objectives of the study were to (1) examine the relationship between ethical climate and job satisfaction among College of Education tutors in Ghana, (2) assess the mediating role of organisational commitment in the relationship between ethical climate and job satisfaction among College of Education tutors in Ghana.

2. THEORETICAL FRAMEWORK

The idea of ethical climate (EC) theory in organisations had its roots in moral development research conducted by Kohlberg in 1969. According to Kohlberg [54], morality is made up of three distinct moral theories: egoism, utilitarianism, and deontology. The term "egoism" refers to actions motivated by personal gain. The maximisation of the greater benefit for the greatest number of parties can be regarded as utilitarian behaviour. Deontology refers to actions that adhere to rules, codes, laws, and processes designed to benefit others. Victor and Cullen [7] highlighted three different levels of analysis; the individual level of analysis, the local level of analysis (the organisation), and the global level of analysis, as being critical to the understanding of ethical climate (community or society which the organisation functions within). The theoretical model of ethical climate developed by Victor and Cullen [7] was developed by evaluating egoism, altruism, and principle against each of these levels of analysis. Five distinct conceptualizations of ethical climate, including caring, instrumental, independence, rules, and law and code, were identified by Victor and Cullen's empirical research. These conceptualisations represent each aspect of ethical decision-making at each level of the organisation. A caring environment is one where employees feel that actions made by their companies are motivated by care for the welfare of others. This ethical concern extends beyond just the organisation's own employees to

encompass people and entities outside the company as well (e.g., local community, society). Companies with caring cultures are seen to adhere to these values and show them through their own rules, practices, and personnel [55].

Organisations with rules and expectations that promote moral decision-making have instrumental ethical climates. These standards and expectations of moral conduct are typically interpreted as promoting one's own or the organisation's interests. On the other hand, the distinctive moral ideals of every person give rise to independent environments. In other words, employees of an organisation will primarily base their choices on their own moral principles. People are more likely to make decisions in these kinds of ethical environments based on serious examination of their personal values and are less likely to be swayed or influenced by outside forces [56]. Law and code ethical climates are on a certain set of external standards that offer recommendations for how members of an organisation should behave. These climates frequently affect how an employee makes ethical decisions because they place a strong focus on religion (e.g., laws drawn from the bible or the Koran) or on morality [9]. Organisations with rules ethical climates generally have a strong set of internal codes specific to their organisation (e.g., code of conduct) [11]. These rules, govern how an organisation's policies and procedures are developed [57]. Ethical climate theory underpins the study because when tutors have good ethical climate at work, the higher their job satisfaction.

2.1 Related Studies

Ethical climate influences job satisfaction [58,59] and organisational commitment [60,61]. For instance, Daneshfard, Rahimi, and Damirchi [62] examine the role of ethical climate on job satisfaction in Iran's small and medium enterprises. Using 128 participants, T-test and Pearson correlation were performed to compare means between variables. Findings showed that there is a relationship between ethical climate and job satisfaction in Iran's small and medium enterprises.

Okpara [63] gathered "data from 320 information communication technology managers in various businesses located in Nigeria. Using the ethical climate and job satisfaction questionnaire, the study reported that ethical climate significantly influenced managers job satisfaction with

promotions, and supervision. When the total construct was joined together ethical climate significantly influenced job satisfaction".

Borhani, Jalali, Abbaszadeh, and Haghdoost [64] examined "nurses' perception of ethical climate and organisational commitment in teaching hospitals in the Southeastern Region of Iran. A descriptive analytical design was used in the study. The sample consisted of 275 nurses working in four teaching hospitals in the Southeastern Region of Iran. The instruments used in the study included a demographic questionnaire, ethical climate questionnaire, and organisational commitment questionnaire. Data analysis was carried out using Pearson's correlation, t-test, and descriptive statistics. The result of the research indicated a positive correlation among sub-dimensions of job satisfaction (professionalism, caring, rules, independence climate) and organisational commitment. in support" of thisa, Ozdoba, Dziurka, Pilewska-Kozak, and Dobrowolska [65] examine hospital ethical climate and job satisfaction among nurses. A total of 235 nurses participated in the study. The results revealed a significant relationship between ethical climate and job satisfaction among nurse workers.

Moore [42] examined "ethical climate, organisational commitment, and job satisfaction of full-time faculty members. Descriptive cross-sectional survey design was employed in the study. Five hundred and ninety-four (594) participated in the study. The data analysis found a significant difference in self-reported levels of organisational commitment and job satisfaction for full-time faculty members with regards to the types of perceived ethical climate (i.e. egoism, benevolence, and principled). Further analysis showed that gender differences played a significant role in the self-reported level of organisational commitment. Females reported higher levels of organisational commitment than their male counterparts".

Menes and Haguisan [66] examined "the relationship between ethical climate, job satisfaction, and hotel employees' organisational commitment. Using stratified random sampling technique, 152 employees from two hotels with the same owner and management were identified as respondents. An adapted questionnaire was used to collect the data. Mean, standard deviation, and Pearson were used to analyse the data. The results revealed that ethical climate showed a significant

relationship with job satisfaction and organisational commitment”.

Unal [67] looked at “the mediating role of facets of job satisfaction on the relationship between ethical climate and the dimensions of organisational commitment. The sample data was derived from 199 participants. The results indicated that ethical climate was positively associated with some facets of job satisfaction and affective and continuance dimensions of organisational commitment. The results also showed that some facets of job satisfaction mediate the relationship between ethical climate and organisational commitment”.

Anaza, Rutherford, Rollins, and Nickell [41] studied “ethical climate and job satisfaction among organisational buyers. Data were collected from the industrial buyers using online panel. The INDSALES scale was used to measure the job satisfaction. Partial least squares, a components-based structural equation modeling approach, was employed in the analysis. The key findings were that buyer’s organisational policy mediates the relationship between buyers’ perception of ethical climate and buyers’ satisfaction with pay and promotion as well as satisfaction with coworkers and supervisors. The findings also showed that work satisfaction can be achieved at different levels base on particular components associated with the work environment”.

Most of these previous studies were conducted among employees in organisations such as health facilities, companies, small and medium enterprises among others living out the school environment specifically, tutors in the Colleges of Education. Hence this study intended to examine ethical climate and job satisfaction as well as the mediating role of organisational commitment among College of Education tutors in Ghana.

3. MATERIALS AND METHODS

Descriptive cross-sectional survey design of the quantitative research approach was used to examine the relationship between ethical climate and job satisfaction response among College of Education tutors in Ghana.

The study's target population consisted of all tutors in the public Colleges of Education in Ghana. In Ghana, there are 46 public Colleges of Education. The public Colleges of Education are made up of five zones. These are the Central/Western Zone (7 CoE), the Volta Zone

(7 CoE), the Eastern/Greater Accra Zone (9 CoE), the Ashanti/Brong Ahafo Zone (13 CoE), and the Northern Zone (10 CoE). The accessible population consisted of tutors from fifteen selected Colleges out of the total 46 Colleges of Education in Ghana. A multistage sampling procedures (proportionate and simple random sampling) were used to select 319 tutors from the selected Colleges base on Krejcie and Morgan’s [68] table of sample size determination. The response rate that was retrieved from the field was 250 responses.

3.1 Validation and Instrumentation

Pre-testing was done to validate the instrument that was to find out how valid and reliable the main data collection would be. A total of 100 tutors were used in pre-testing the instrument. Confirmatory Factor Analysis (CFA) and a covariance-based Structural Equation Model were used to validate Ethical Climate and Organisational Commitment Questionnaire using Jeffery Amazing Statistic Program (JASP) software version 14.1. Pallant [69] has it that non-significance items greater than .05 or loadings less .30 should be deleted and significance items less than .05 or loadings greater than .30 be maintained. Additionally, construct validity was determined using AVE of .50 or higher [70]. In addition, if the measure of correlation between the sub-scales (latent exogenous constructs) are less than .85 or .90, then discriminant validity has been achieved [71, 72,73].

3.2 Ethical Climate Questionnaire (ECQ)

The study used an adapted Ethical Climate Questionnaire (ECQ) by Victor and Cullen’s [7]. The questionnaire consisted of 26-items which was made up of five dimensions namely caring, law and code, rules, instrumental and independence. The scale had six-point Likert-scale (0 = completely false, mostly false=1, Somewhat false = 2, Somewhat true = 3, Mostly true = 4 and completely true =5). The CFA is described below.

3.3 Construct Validity

As shown in Fig. 1, factor loadings for items A3, A6, A7, and A17 were deleted because their p-value indicated non-significance (>.05), or were below the recommended value of .30 [69], hence they were deleted. Two dimensions of the Average Variance Extraction (AVE) that is Factor-2 (Law/Code) and Factor-3 (Rules) were

greater than .50. However, Factor-1 (Caring), Factor-4 (Instrumental) and Factor-5 (Independent) indicated a lesser value of .50. It can be concluded that dimensions had partially convergent validity. Although the dimensions had partial convergent validity the Cronbach Alpha = .68, Composite Reliability = .76 and Omega ω = .72 respectively had higher reliability. The initial model of the 26-items is shown in Fig. 1.

3.4 Inter-dimension Correlations

In assessing the inter-dimension correlation of the ECQ, if a measure of correlation between or among latent exogenous constructs (sub-scale) are less than .85 or .90, then discriminant validity has been achieved [71,72,73]. Based on the results 95% of the correlation ratios met the criterion for the original 26-item instrument. That is, whereas 9 coefficients of the correlation ratios were less than 0.90, the other 1 was greater than 0.90 [71,72,73]. This condition however, explains that the problem of multicollinearity does not exist between or among the construct. Consequently, all the observed variables of ECQ questionnaire were grouped under their respective dimensions. This result suggests that the discriminant validity of the scale is sufficient.

3.5 Model Fit

The model fit was used to see if the proposed model fit the data set. By calculating NFI, TLI, and CFI, among other variables, the new model (ECQ-22 items) was compared to the initial model (ECQ-26 items). The initial model with CFI = .739, NFI = .593, IFI = .746, TLI = .712 didn't meet the criteria set by (>0.90; [74]). On the other hand, the RMSEA = .081 also showed a poor fit (<0.08 [75]).

The model fit appeared to be better in the revised model (ECQ-22 items) than the original model (ECQ-26 items). The AIC index for the ECQ-26 item model was 11741.912, whereas the ECQ-22 item model had an AIC value of 9786.788, indicating that the second model (ECQ-22 item) is closer to reality and has appropriate fit [76,77]. The model fit for the new model (ECQ-22 item) did not meet the standards specified by the selected researchers, despite the fact that the ECQ-22 item model fit better than the ECQ-26 item model. According to this study, future researchers who want to replicate or re-examine ECQ in the Ghanaian setting should use the ECQ-22 items rather than the ECQ-26 items due to cultural differences [78]. The final model with 22-items is shown in Fig. 2.

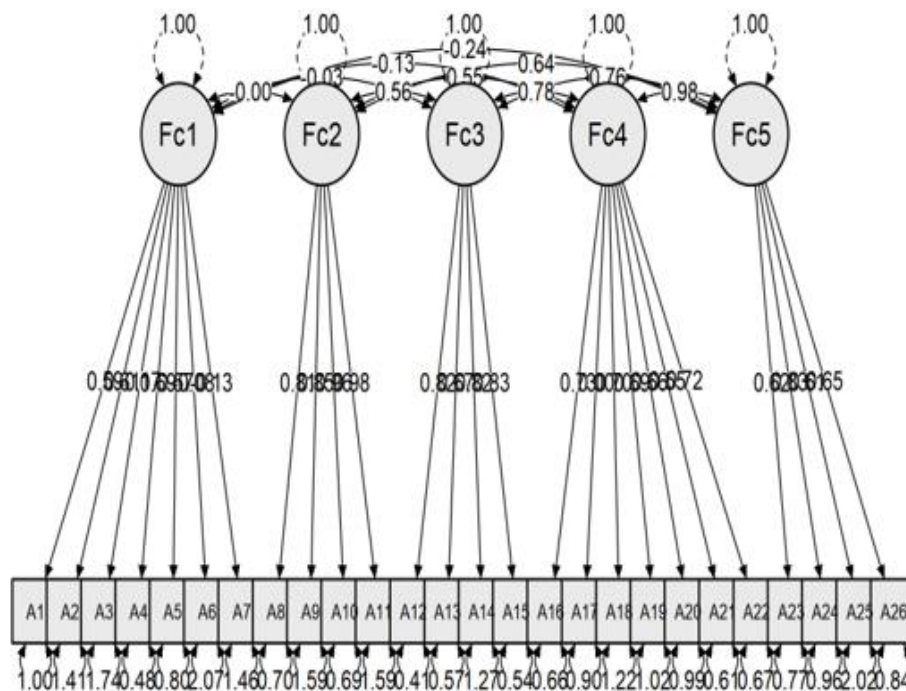


Fig. 1. Initial hypothesised first-order CFA model with 26-Items of ECQ

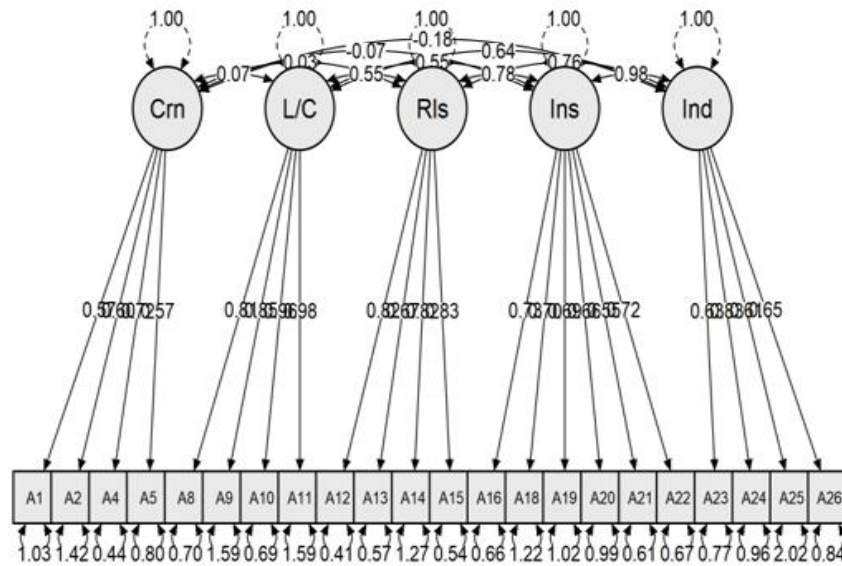


Fig. 2. Final hypothesised first-order CFA model with 22-items of ECQ

3.6 Organisational Commitment Questionnaire (OCQ)

To measure organisational commitment, the researchers used Allen & Meyer's [79] three-model measure of commitment. This scale uses 24 items to measure the Affective, Continuance, and Normative facets of organisational commitment. Participants responded to each question using a 7-point Likert-type scale indicating their agreement with each statement (Strongly disagree – 1, Disagree – 2, Somewhat disagree – 3, Neither agree nor disagree – 4, Somewhat agree – 5, Agree – 6, Strongly agree – 7). We employed Confirmatory Factor Analysis (CFA) to determine the construct validity and inter-factorial correlation. The CFA is described below.

3.7 Construct Validity

As shown in Fig. 3, items B2, B5, B6, B11, B16, and B23 yielded a non-significance results because their p-value were greater than (>.05), hence they were deleted. All the respective dimensions were less than the Average Variance Extraction (AVE) of .50. It can be concluded that construct validity has been poorly established. Although, construct validity was poorly established, the Composite reliability, Cronbach Alpha and Omega ω showed a high reliability of .75, .77, .79 respectively. The initial model of the 24-items is shown in Fig. 3

Commitment

3.8 Inter-factorial Correlations

In assessing inter-factorial correlations or the discriminant validity of the organisational commitment, if a measure of correlation between or among latent exogenous constructs (sub-scale) are less than .85 or .90, then discriminant validity has been achieved [71,72,73]. Based on the results all the correlation ratios .56, .59, .66 respectively were less than the criterion of 0.90 for the original 24-item instrument. This result suggests that the discriminant validity of the scale is sufficient.

3.9 Model Fit

The model fit was used to see if the proposed model fit the data set. By calculating NFI, TLI, and CFI, among other variables, the new model (OC-18 items) was compared to the initial model (OC-24 items). The new model with chi-square = 1016.299, CFI = .35, NFI = .30, IFI = .37, TLI = .28 didn't meet the criteria set by (>0.90; [74]). On the other hand, the RMSEA = .11 also showed a good fit (<0.08; [75]).

The new model with (OC-18 items) appeared better than the original model (OC-24 items). The AIC index for the OC-24 item model was 13847.550, whereas the OC-18 item model had an AIC value of 10495.315, indicating that the second model (OC-18 item) is closer to reality and has appropriate fit [76,77]. Although the new model (OC-18 item) appeared better it didn't meet the standards specified by the selected researchers [74,75]. The final model with 18-items is shown in Fig. 4.

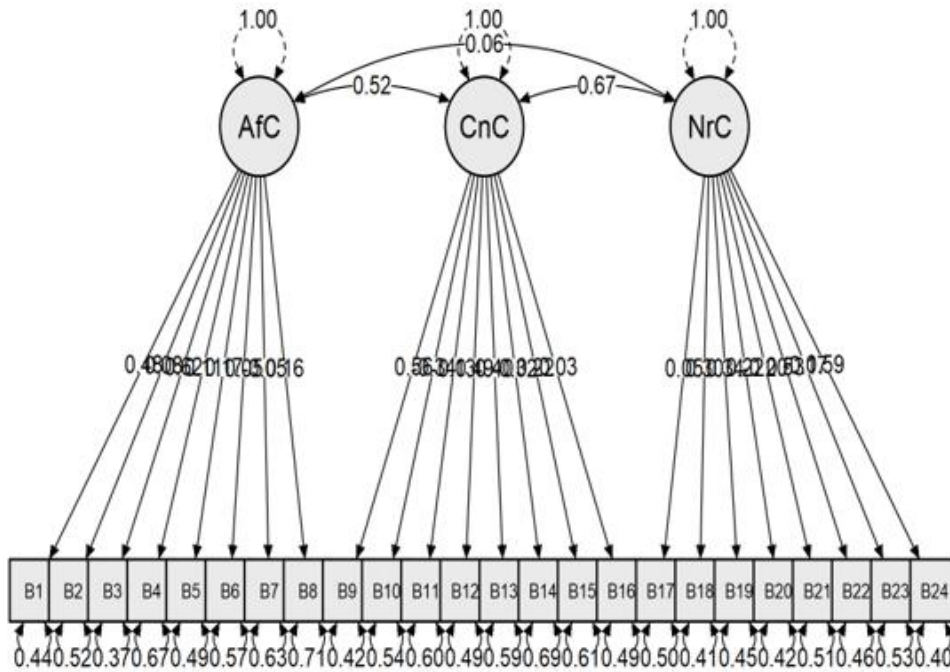


Fig. 3. Initial multi-factor first-order CFA with three-factor structure model (24-items)

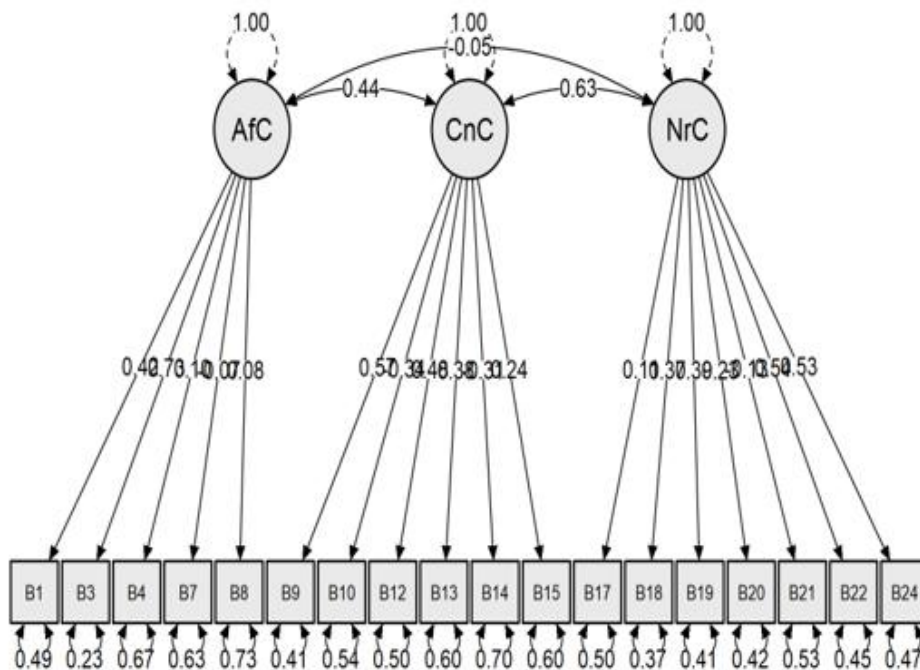


Fig. 4. Final multi-factor first-order CFA with three-factor structure model (18-items)

3.10 Job Satisfaction Scale

Spector's [80] Job Satisfaction Scale was used. The Job Satisfaction Survey (JSS) consisted of 36 items and nine subscales to gauge employee views toward their position and its various facets.

Each item was ranked on a 6-point Likert scale ranging from "strongly disagree" to "strongly agree". The 36 items were written in both directions, so about half of them must be reverse scored. The nine subscales are Pay, Promotion, Supervision, Fringe Benefits (Monetary and

nonmonetary fringe benefits), Contingent Rewards (performance-based rewards), Operating Procedures (Operating policies and required rules), Coworkers, Nature of Work, and Communication. Although the JSS was originally developed for use in human service organisations, it is applicable in any institutions [81]. According to Spector's [80], he validated the instrument using Confirmatory Factor Analysis (CF). The CFA assessed the fit of the nine-factor structure and the model fitted the data well as defined from the RMSEA, CFI, NFI, TLI and GFI values that were equal to 0.055, 0.951 and 0.946, respectively. None of the item cross loadings exceeded the item loadings on the intended latent construct. Factor loadings were high and ranged from 0.61 to 0.90 indicating a strong association between the latent factors and their respective items. This validation by Spector [80] supported our decision to use the scale.

3.11 Statistical Analyses

The data analysis was structured in different phases based on the objectives of the study. The first objective, which sought to examine the relationship between ethical climate and job satisfaction among College of Education tutors in Ghana, was addressed by performing a multivariate multiple regression and SEM analysis. For objective two (i.e., assess the mediating role of organisational commitment in the relationship between ethical climate and job satisfaction among College of Education tutors in Ghana) mediation analysis using PROCESS software by Hayes was performed.

4. RESULTS

4.1 Relationship between Ethical Climate and Job Satisfaction among College of Education Tutors in Ghana

The aim of this hypothesis was to test whether ethical climate could predict job satisfaction of tutors. The results in this section are in two folds. The first part looks at the sub-dimensions of ethical climate as predictors of sub-dimensions of job satisfaction. The second part looks at the prediction of total construct of ethical climate on the total construct of job satisfaction. In multivariate multiple regression, ethical climate as the predictor was multidimensional (caring, law/code, rule, instrument and independent) and job satisfaction as the criterion was also

multidimensional (pay, promotion, supervision, fringe benefits, contingent rewards, operating conditions, coworker, nature of work, and communication). As indicated in the analysis section, Bronferroni's adjustment correction was used ($0.05/9 = 0.005$) to avoid type 1 errors due to multiple testing. The results are presented in Table 1.

Table 1 provides results of the test of multivariate multiple regression, where caring, law/code, rule, instrument and independent played the role of predictors to the criteria pay, promotion, supervision, fringe benefits, contingent rewards, operating conditions, coworker, nature of work, and communication. Using Wilk's lambda to test for the omnibus hypothesis that some of the beta values across the dependent variables were significant while others were not statistically significant, $F(9, 236) = 2.967$, Wilk's lambda = .898, $p = .11$. With Pay as the criterion, $R^2 = .823$, $p = .01$. This shows that 8.23% of the variance in pay is explained by sub-dimensions of ethical climate (caring, law/code, rule, instrument and independent). With Promotion as the criterion, $R^2 = .816$, $p = .39$. This shows that 8.16% of the variance in promotion is explained by sub-dimensions of ethical climate. With regards to supervision as the criterion, $R^2 = .893$, $p = .50$. This revealed that 8.93% of sub-dimensions of ethical climate explained its variance.

Taking fringe benefits as the outcome variable, $R^2 = .897$, $p = .69$, revealed that 8.97% of the variance in fringe benefits is explained by sub-dimensions of ethical climate. Further, with contingent reward as the outcome variable, $R^2 = .826$, $p = .58$, revealed that 8.26% of the variance in contingent reward is explained by sub-dimensions of ethical climate. Again, with operating condition as the outcome variable, $R^2 = .794$, $p = .22$, revealed that 7.94% of the variance in operating condition is explained by sub-dimensions of ethical climate. Moreover, with regards to coworkers as the outcome variable, $R^2 = .808$, $p = .20$, showed that 8.8% of the variance in coworkers is explained by sub-dimensions of ethical climate. Similarly, with regards to nature of work as the criterion, $R^2 = .779$, $p = .00$, showed that 7.79% of the variance in nature of work is explained by sub-dimensions of ethical climate. With regards to communication as the criterion, $R^2 = .296$, $p = .00$, revealed that 2.96% of sub-dimensions of ethical climate explained its variance.

Table 1. Multivariate Multiple Regression of sub-dimensions of Ethical Climate and Job Satisfaction

Dependent	Parameter	B	Std. Error	t	Sig.	95% Confidence Interval		Partial Eta Squared
						Lower Bound	Upper Bound	
Pay	Intercept	-.524	.330	-1.587	.114	-1.175	.126	.010
	Caring	.436	.025	17.269	.000	.386	.485	.550
	Law/Code	-.076	.037	-2.072	.039	-.149	-.004	.017
	Rule	-.045	.037	-1.220	.224	-.117	.028	.006
	Instrument	.059	.023	2.538	.012	.013	.105	.026
	Independent	.025	.033	.779	.437	-.039	.090	.002
Promotion	Intercept	.788	.325	2.424	.016	.148	1.428	.024
	Caring	.406	.025	16.344	.000	.357	.455	.523
	Law/Code	-.017	.036	-.476	.634	-.089	.054	.001
	Rule	.060	.036	1.650	.100	-.012	.131	.011
	Instrument	-.007	.023	-.318	.751	-.052	.038	.000
	Independent	-.021	.032	-.661	.510	-.085	.042	.002
Supervision	Intercept	-.299	.351	-.852	.395	-.991	.392	.003
	Caring	.175	.027	6.535	.000	.123	.228	.149
	Law/Code	.812	.039	20.714	.000	.735	.890	.637
	Rule	-.016	.039	-.421	.674	-.094	.061	.001
	Instrument	-.053	.025	-2.149	.033	-.102	-.004	.019
	Independent	.014	.035	.403	.687	-.054	.083	.001
Fringe Benefit	Intercept	.220	.333	.662	.508	-.435	.876	.002
	Caring	.001	.025	.059	.953	-.049	.052	.000
	Law/Code	.261	.037	7.024	.000	.188	.334	.168
	Rule	.785	.037	21.156	.000	.712	.858	.647
	Instrument	-.036	.023	-1.543	.124	-.082	.010	.010
	Independent	-.020	.033	-.600	.549	-.085	.045	.001
Contingent R.	Intercept	-.167	.430	-.389	.698	-1.015	.680	.001
	Caring	-.029	.033	-.895	.372	-.094	.035	.003
	Law/Code	.027	.048	.564	.573	-.068	.122	.001
	Rule	.192	.048	4.003	.000	.098	.286	.062
	Instrument	.578	.030	19.031	.000	.518	.638	.597
	Independent	-.151	.043	-3.541	.000	-.235	-.067	.049

Dependent	Parameter	B	Std. Error	t	Sig.	95% Confidence Interval		Partial Eta Squared
						Lower Bound	Upper Bound	
Operational P.C.	Intercept	-.183	.337	-.544	.587	-.846	.480	.001
	Caring	.027	.026	1.069	.286	-.023	.078	.005
	Law/Code	.009	.038	.231	.817	-.065	.083	.000
	Rule	-.004	.038	-.106	.916	-.078	.070	.000
	Instrument	.380	.024	15.993	.000	.333	.427	.512
	Independent	.043	.033	1.279	.202	-.023	.108	.007
Coworkers	Intercept	.386	.318	1.213	.226	-.241	1.013	.006
	Caring	-.044	.024	-1.827	.069	-.092	.003	.013
	Law/Code	.053	.036	1.495	.136	-.017	.123	.009
	Rule	.015	.036	.422	.673	-.055	.085	.001
	Instrument	.095	.022	4.235	.000	.051	.139	.068
	Independent	.562	.032	17.807	.000	.500	.624	.565
Nature of Work	Intercept	.450	.356	1.266	.207	-.250	1.151	.007
	Caring	.070	.027	2.570	.011	.016	.123	.026
	Law/Code	-.136	.040	-3.430	.001	-.215	-.058	.046
	Rule	.042	.040	1.068	.287	-.036	.120	.005
	Instrument	.006	.025	.240	.811	-.043	.055	.000
	Independent	.663	.035	18.816	.000	.594	.732	.592
Communication	Intercept	2.092	.703	2.976	.003	.707	3.476	.035
	Caring	.087	.054	1.614	.108	-.019	.193	.011
	Law/Code	.077	.078	.984	.326	-.077	.232	.004
	Rule	.004	.078	.048	.962	-.151	.158	.000
	Instrument	.059	.050	1.193	.234	-.039	.157	.006
	Independent	.214	.070	3.079	.002	.077	.351	.037

Note: ^aR-squared = .823 (Adjusted R-squared = .819). ^bR-squared = .816 (Adjusted R-squared = .813). ^cR-squared = .893 (Adjusted R-squared = .891). ^dR-squared = .897 (Adjusted R-squared = .895). ^eR-squared = .826 (Adjusted R-squared = .822). ^fR-squared = .794 (Adjusted R-squared=.790). ^gR-squared=.804 (Adjusted R-squared=.800). ^hR squared=.779 (Adjusted R-squared=.775). ⁱR-squared = .296 (Adjusted R-squared = .282)

The study further revealed the individual dimensional predictors. Using Pay as a criterion, caring [b = .436; t = 17.269; p = .00; Boot95%CI (.386, .485)], law/code [b = -.076; t = -2.072; p = .03; Boot95%CI (-.149, -.004)], and instrument [b = .059; t = 2.538; p = .01; Boot95%CI (.013, .105)], were predictors of pay sub-dimension of job satisfaction. However, rule [b = -.045; t = -1.220; p = .22; Boot95%CI (-.117, .028)], and independent [b = .025; t = .779; p = .43, Boot95%CI (-.039, .090)], were not predictors of pay. The results imply that teachers with ethical climate such as caring, law/code, and instrument are likely to be highly paid in their work.

Again, using promotion as a criterion, caring [b = .406; t = 16.344; p = .00; Boot95%CI (.357, .455)], was a predictor of promotion. However, law/code [b = -.017; t = -.476; p = .63; Boot95%CI (-.089, .054)], rule [b = .060; t = 1.650; p = .10, Boot95%CI (-.012, .131)], instrument [b = -.007; t = -.318; p = .75, Boot95%CI (-.052, .038)], and independent [b = -.021; t = -.661; p = .51, Boot95%CI (-.085, .042)], were not predictors of promotion. The results imply that teachers with law/code, rule, instrument and independent are not likely to be promoted in their work

Further analysis, showed that supervision as an outcome variable, caring [b = .175; t = 6.535; p = .00; Boot95%CI (.123, .228)], law/code [b = .812; t = 20.714; p = .00; Boot95%CI (.735, .890)], and instrument [b = -.053; t = -2.149; p = .03; Boot95%CI (-.102, -.004)], were predictors of supervision. However, rule [b = -.016; t = -.421; p = .67, Boot95%CI (-.094, .061)], and independent [b = .014; t = .403; p = .68, Boot95%CI (-.054, .083)], were not significant predictors of supervision. The results imply that teachers with rule and independent are not likely to be supervised. However, teachers with caring, law/code and instrument are likely to be supervised in their work.

With regards to fringe benefits as a criterion, caring [b = .001; t = .059; p = .95; Boot95%CI (-.049, .052)], instrument [b = -.036; t = -1.543; p = .12; Boot95%CI (-.082, .010)], and independent [b = -.020; t = -.600; p = .54; Boot95%CI (-.085, .045)]. However, law/code [b = .261; t = 7.024; p = .00, Boot95%CI (.188, .334)], and rule [b = .785; t = 21.156; p = .00, Boot95%CI (.712, .858)] were found as predictors of fringe benefits. The implication of the result is that teachers with law/code and rule are likely to have fringe

benefits but teachers with caring, instrument and independent are not likely to have fringe benefits.

The study revealed that contingent rewards as a criterion, caring [b = -.029; t = -.895; p = .37; Boot95%CI (-.094, .035)], and law/code [b = .027; t = .564; p = .57; Boot95%CI (-.06, .122)], were not predictors of contingent rewards. However, rule [b = .192; t = 4.003; p = .00, Boot95%CI (.098, .286)], instrument [b = .578; t = 19.031; p = .00, Boot95%CI (.518, .638)], independent [b = -.151; t = -3.541; p = .00, Boot95%CI (-.235, -.067)], were predictors of contingent rewards. The results imply that teachers with rule, instrument and independent are likely to have contingent rewards in their work.

Taking operating condition as a criterion, caring [b = .027; t = 1.069; p = .28; Boot95%CI (-.023, .078)], law/code [b = .009; t = .231; p = .81; Boot95%CI (-.065, .083)], rule [b = -.004; t = -.106; p = .91, Boot95%CI (-.078, .070)], and independent [b = .043; t = 1.279; p = .20, Boot95%CI (-.023, .108)], were not predictors of operating condition. However, instrument [b = .380; t = 15.993; p = .00, Boot95%CI (.333, .427)], was a predictor of operating condition. The results imply that teachers with instrument are likely to have operating condition in their work.

The results showed that coworkers as an outcome variable, caring [b = -.044; t = -1.827; p = .06; Boot95%CI (-.092, .003)], law/code [b = .053; t = 1.495; p = .13; Boot95%CI (-.017, .123)], and rule [b = .015; t = .422; p = .67, Boot95%CI (-.055, .085)]. However, instrument [b = .095; t = 4.235; p = .00, Boot95%CI (.051, .139)], and independent [b = .562; t = 17.807; p = .00, Boot95%CI (.500, .624)], were not predictors of coworkers. The results imply that teachers with instrument and independent are likely to have coworkers in their work.

With regards to nature of work as a criterion, caring [b = .070; t = 2.570; p = .01; Boot95%CI (.016, .123)], law/code [b = -.136; t = -3.430; p = .00; Boot95%CI (-.215, -.058)], and independent [b = .663; t = 18.816; p = .00, Boot95%CI (.594, .732)] were predictors of nature of work. However, rule [b = .042; t = 1.068; p = .28, Boot95%CI (-.036, .120)], and instrument [b = .006; t = .240; p = .81, Boot95%CI (-.043, .055)], were predictors of nature of work.

Finally, the study revealed that communication as a criterion, caring [b = .087; t = 1.614; p = .10; Boot95%CI (-.019, .193)], law/code [b = .077; t = .984; p = .326 Boot95%CI (-.077, .232)], rule [b = .004; t = .048; p = .96, Boot95%CI (-.151, .158)], and instrument [b = .059; t = 1.193; p = .23, Boot95%CI (-.039, .157)], were not predictors of communication. However, [b = .214; t = 3.079; p = .00, Boot95%CI (.077, .351)]. The results imply that teachers with independent are likely to have communication in their work while those with caring, law/code, rule and instrument are not likely to have communication in their work.

The study further looks at the second part of the total construct of ethical climate on the total construct of job satisfaction. Structural Equation Model path analysis with 5000 bootstrap samples, with bias corrected accelerated

confidence intervals was used. Details of the results are presented in Fig. 5 and Table 2.

From Fig. 5, ethical climate predicts job satisfaction by 1.11 with a mean and error variance of (82.41, 118.36) respectively and an intercept of 3.18 for job satisfaction. Table 2 present the significance of the path model.

Ethical climate and job satisfaction were determined using path analysis. From Table 2, ethical climate explained 9.83% of the variance in job satisfaction. Ethical climate was a substantial predictor of job satisfaction, [b = 1.11; SE = .009; Boot95%CI (.1.091, 1.128)]. This result (B = 1.11) implies that ethical climate positively predicts job satisfaction. The result discovered that a surge in ethical climate would lead to 1.11 increase in job satisfaction.

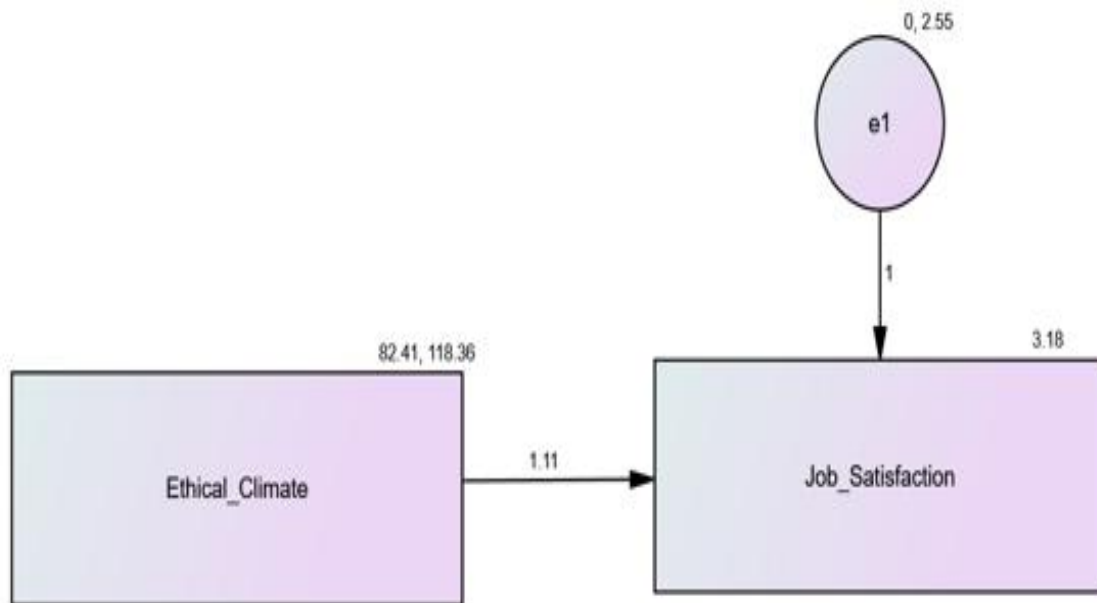


Fig. 5. Path model of Ethical Climate and Job Satisfaction

Table 2. Regression model of ethical climate and job satisfaction

Dependent variable	Parameter	B	Std. error	CR	95%Confidence Interval	
					LLCI	ULCI
	Constant	3.185	.774	4.121	1.659	4.710
Job Satisfaction	Ethical Climate	1.109	.009	119.526	1.091	1.128

*Significant, p < .05; R = .991; R² = .983

Table 3. Direct and Indirect Effect

Parameter	Effect	SE	t	p	95% Confidence Interval	
					LLCI	ULCI
Total effect of X on Y	1.109	.0093	119.062	<.000	1.091	1.128
Direct effect of X on Y	1.108	.0093	118.864	<.001	1.090	1.127
Indirect effect of X on Y	Effect	SE	BootLLCI		BootULCI	
Organisational Commitment	.0011	.0013	-.0011		.0043	
Completely standardised indirect effect of X on Y	Effect	SE	BootLLCI		BootULCI	
Organisational Commitment	.0010	.0012	-.0010		.0038	

X-Ethical Climate; Y-Job Satisfaction *Significant, $p > .05$ level

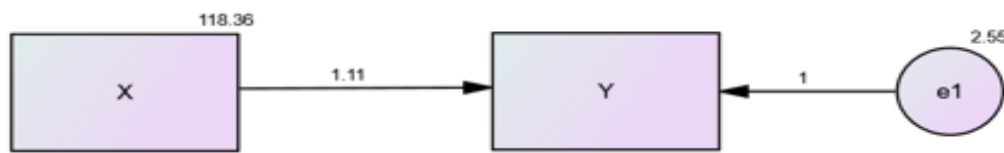


Fig. 6. Final model based on research findings

4.2 Mediating Role of Organisational Commitment in the Relationship between Ethical Climate and Job Satisfaction among College of Education Tutors in Ghana

The aim of this hypothesis was to determine the mediating role of organisational commitment in the relationship between ethical climate and job satisfaction. Simple mediation analysis by Hayes’ PROCESS was used to test this hypothesis. A bootstrap sample of 5000 was used for the analysis. Table 3 present the results.

As presented in Table 3, the direct effect of organisational commitment on job satisfaction was statistically significant, $B = 1.108$, $Boot95\%CI [1.090, 1.127]$. This means that, without organisational commitment, ethical climate positively had 1.108 effect on job satisfaction. Further, with the introduction of organisational commitment, the indirect effect of ethical climate on job satisfaction was not statistically significant, $B = .0011$, $Boot95\%CI [-.0011, .0043]$. This implies that the effect of ethical climate through organisational commitment was .0011. This suggests that organisational commitment does not mediate the relationship between ethical climate and job satisfaction. This mediation was partial as evidence shows in Table 3 that with the introduction of organisational commitment, the total effect had increased to 1.109, which is

greater than the direct effect. The significance of the results is shown in Table 3.

The final model depicts direct relationship between ethical climate and job satisfaction. Ethical climate relationship directly influences job satisfaction of teachers. Thus organisational commitment does not mediate the effect of ethical climate and job satisfaction.

5. DISCUSSION AND RESEARCH IMPLICATIONS

The results in hypothesis one aim to test whether or not ethical climate could predict job satisfaction of tutors. The results were in two folds. The first part looked at the sub-dimensions of ethical climate as predictors of sub-dimensions of job satisfaction and the second part looked at the prediction of total construct of ethical climate on the total construct of job satisfaction. The results revealed that taking into account five types of ethical climate, a statistically significant relationship was found between some of the five types of ethical climate (caring, law/code, rule, instrument and independence) and some of the sub-dimension of job satisfaction, while some of the sub-dimension of ethical climate did not have significant relationship with some of the sub-dimensions of job satisfaction. In contrast, no relationship was found between the instrumental type of ethical climate and the sub-dimensions of job satisfaction [82]. There are contradictory results regarding the impact of ethical climate of

rules on job satisfaction. In a study by Dinc and Huric [83]. job satisfaction was significantly affected by two types of ethical climate, caring (positive) and rules (negative). Additionally, Karaca, Ozkan, and Kucukkepce [84] found that respondents who were satisfied with their jobs scored statistically higher on ethical climate dimensions such as caring, independence, rules, and law.

When the total construct of ethical climate was used in predicting the total construct of job satisfaction the study revealed that ethical climate had relationship with job satisfaction. It can therefore be concluded that as ethical climate of tutors increases the high tutors become satisfied with their job. Wang and Hseih [85] supported this idea suggesting that employees (tutors) who are treated ethical will believe that the institution is fair towards them and will have higher job satisfaction. The results are in line with Okpara [63] who gathered data from 320 information communication technology managers in various businesses located in Nigeria. Using the ethical climate and job satisfaction questionnaire, the study reported that ethical climate significantly influenced managers job satisfaction with promotions, and supervision. When the total construct was joined together ethical climate significantly influenced job satisfaction.

The results further revealed no significant effect of organisational commitment on the relationship between ethical climate and job satisfaction. This suggest that organisational commitment does not play any role as far as ethical climate influence tutors job satisfaction. Tutors, however, do not necessarily have to have ethical climate, which would in turn influence their commitment to work, then finally have job satisfaction. However, there was a direct relationship between ethical climate and job satisfaction. We will, therefore say that, tutors with higher ethical climate will have job satisfaction regardless of organisational commitment. The finding of this study agrees with Anaza, Rutherford, Rollins, and Nickell [41] who found a relationship between ethical climate and job satisfaction. Based on the result Anaza, Rutherford, Rollins, and Nickell [41] concluded that rules and regulations as a way to standardize employee behaviours and prevent unethical practices, principals must ensure that such codes specifically address issue pertaining to compensation, supervision and promotion.

The present study extends the application of the ethical climate and organisational commitment questionnaire from College of Education tutors, thus validating the usefulness of a multifaceted instrument. The sub-dimensions of ethical climate and the sub-dimensions of organisational commitment constructs examined revealed strong internal reliability, and discriminant validity for each construct within the context of College of Education Tutors. Furthermore, the application of the Ethical climate questionnaire and organisational commitment questionnaire confirms the appropriateness of using this instrument to measure other employees (tutors) in the Colleges of Education [7,78].

6. CONCLUSION, FUTURE RESEARCH AND RECOMMENDATIONS

Although this study provides an initial look into the relationship between ethical climate and job satisfaction as well as the mediating role of organisational commitment using a sample of tutors in the Colleges of Education, our results present several avenues for future research. We believe that the literature will benefit from replicating the current study into different institutions such as the universities, senior high schools and the basic schools to determine whether the results remain identical to our current findings or vary to a large extent based on institution type. Given that ethical climate and job satisfaction operate differently, the findings provide a roadmap for future research to explore moderation analysis thereby looking at how the organisational commitment can play a moderating role between ethical climate and job satisfaction which was not tested in the current study. In conclusion, this study confirms the relationship between ethical climate and job satisfaction among tutors in the Colleges of Education. When ethical climate of tutors increases the likelihood of tutors to be satisfied with their job. Principals at the Colleges of Education can enhance job satisfaction in the workplace by developing and encouraging ethical climate among tutors. These are important to reduce absenteeism and lateness as well as other organisational outcomes such as productivity and profitability. Thus, an increase in job satisfaction and organisational commitment can lead to a reduction in absenteeism in the workplace.

CONSENT

The respondent's consent was sought before the commencement of data collection.

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COMPETING INTERESTS

Authors have declared that no competing interests exist.

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