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# The Role of Competency Mapping in Enhancing the Effectiveness of Performance Appraisals: An Empirical Study

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### ABSTRACT

This empirical study investigates the impact of competency mapping on the effectiveness of performance appraisal systems within mid-sized manufacturing firms, aiming to determine whether aligning appraisal criteria with clearly defined competency frameworks enhances appraisal accuracy, employee satisfaction, and developmental outcomes, by collecting quantitative data from 250 employees and 50 managers through structured surveys and performance records over a 12-month period using stratified random sampling to ensure representative coverage of departments and job levels, applying validated psychometric scales for competency assessment and appraisal satisfaction, and employing statistical analyses including multiple regression and structural equation modeling to evaluate the relationships between competency clarity, appraisal fairness, feedback quality, and subsequent employee performance improvements, while controlling for demographic variables such as age, gender, and tenure, with results indicating that organizations implementing competency mapping experienced a statistically significant increase ( $p < 0.01$ ) in perceived appraisal fairness and feedback utility, which mediated the positive effect on employee motivation and goal attainment, and qualitative follow-up interviews with HR managers provided triangulation confirming that competency-based appraisal frameworks facilitate targeted employee development plans and reduce appraisal biases, thus supporting the hypothesis that competency mapping functions as a critical mechanism to enhance performance appraisal systems by fostering transparency and alignment between organizational expectations and employee capabilities, contributing novel empirical evidence to human resource management literature and offering practical implications for practitioners aiming to improve appraisal processes, while acknowledging limitations related to the cross-sectional design and self-reported data, recommending future longitudinal studies to assess long-term effects and experimental designs to establish causal inferences, and adhering to ethical standards approved by the institutional review board with participant confidentiality rigorously maintained throughout the study.

**Keywords:** Competency Mapping, Performance Appraisal, Employee Development, Appraisal Fairness, Human Resource Management, Empirical Study

### Introduction

With the evolution of Human Resource Management (HRM) practices, it has become imperative to match the competencies of an employee with the goals of an organisation in order to improve performance. Competency mapping is one such strategic tool that can help in this process and it involves the structured identification and evaluation of skills, knowledge, and behaviors that are necessary for effective performance in a job role. The outcome is competency frameworks which in turn serve as a basis for other HR processes such as recruitment, training, performance appraisal, etc (Draganidis & Mentzas, 2006) Despite the limitations of traditional performance management systems, typically annual in nature and often subjective, they have remained largely in place for decades. This bias, a lack of transparency, and even lack of feedback may lead to unhappiness and ineffective talent development (Catano, Darr, & Campbell, 2007). Without a structured approach towards assessing competencies, performance reviews will save valuable time in communicating developmental needs as well as organizational growth plans. Performance appraisal systems often face challenges of bias and subjectivity; however, the integration of competency mapping alleviates these issues by exacting a systematic process in the evaluation process that revolves around a set of predefined competencies with its framework. By aligning and leveraging the corporate strategy with the appraisal process, the appraisal becomes more definite, clearer, fairer, and develops a pathway to identify employees area of improvement (Cheng & Dainty, 2005). In addition to that, the performance reviews based on competency can also help you make performance evaluations fairer thus enhancing employee motivation and goal achievement. While competency-based performance appraisals are expected to provide a number of benefits in theory, there are few empirical studies investigating their effects—especially in the context of mid-sized manufacturing firms. While previous literature suggests that competency frameworks and their aspired usage in appraisals do exist, research into the links between alignment of appraisals with competency frameworks as well as the impact of targets attached to dimensions of performance-on-performance appraisals remains largely under investigated. Using quantitative data gathered from employees and managers and statistical analyses of the described relationships, this study will attempt to demonstrate the impact of competency mapping in performance appraisal systems by evaluating 1) clarity of competencies, 2) fairness of performance appraisal systems, 3) quality of feedback it provides and finally, 4) how it translates into performance improvement by employees.

### ***Statement of the problem***

The persistent reliance on traditional performance appraisal systems—often characterized by subjective assessments, infrequent evaluations, and ambiguous performance criteria—has led to significant challenges in accurately measuring employee performance, providing constructive feedback, and aligning individual competencies with organizational goals, thereby necessitating an empirical investigation into the efficacy of integrating competency mapping frameworks to enhance appraisal effectiveness and mitigate inherent biases. Traditional appraisal methods frequently suffer from subjectivity and bias, undermining their reliability and fairness. Studies have shown that such systems can lead to inconsistent evaluations, favoritism, and a lack of transparency, which in turn affect employee motivation and development (Prendergast & Topel, 1993). Moreover, the absence of clearly defined competencies makes it challenging for managers to provide objective assessments and for employees to understand performance expectations (Agnihotri et al., 2018). Competency mapping offers a structured approach to identify and assess the specific skills, knowledge, and behaviors required for various roles within an organization. By establishing clear benchmarks, it facilitates more objective and consistent performance evaluations, aligning individual capabilities with organizational objectives (Agnihotri et al., 2018). This alignment not only enhances the accuracy of appraisals but also supports targeted employee development and succession planning. Despite the theoretical advantages of competency-based appraisal systems, empirical evidence on their effectiveness remains limited. There is a need for comprehensive studies that examine how integrating competency mapping into performance appraisals impacts appraisal accuracy, employee satisfaction, and overall organizational performance. Such research is essential to validate the practical benefits of competency frameworks and to provide actionable insights for HR practitioners aiming to refine appraisal processes.

### ***Research Problem related to the study***

Despite the widespread adoption of performance appraisal systems in organizations, many continue to grapple with inherent challenges such as subjectivity, inconsistency, and limited developmental impact, which hinder the accurate assessment of employee capabilities and obstruct alignment with organizational goals, and while competency mapping has been proposed as a promising solution to provide clear, measurable criteria by defining job-relevant skills and behaviors, empirical evidence on its efficacy in enhancing appraisal accuracy, fairness, and employee satisfaction remains insufficient, particularly within mid-sized manufacturing firms where diverse job roles and complex skill requirements intensify appraisal difficulties; this gap underscores the critical need to empirically investigate how integrating competency frameworks into performance appraisal processes affects key appraisal outcomes, including perceived fairness, feedback quality, and motivational impacts, while controlling for demographic and organizational variables, thereby addressing unresolved questions about competency mapping's practical effectiveness in reducing appraisal biases, improving transparency, and supporting targeted employee development plans, which ultimately influence performance improvements and organizational success, as noted by recent scholars emphasizing the evolving role of competency-based human resource practices in fostering strategic HRM alignment and workforce capability enhancement (Sahni & Purang, 2021; Kim & Park, 2022; Lopez-Cabrales, Real, & Valle, 2023).

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### **Literature Review associated with the study**

Competency mapping, grounded in Competency Theory which posits that defining and developing specific skills, behaviors, and knowledge sets critical to job performance enhances organizational effectiveness, alongside Goal-Setting Theory which emphasizes that clear, challenging, and attainable goals improve employee motivation and performance, provides a robust theoretical framework for improving performance appraisal systems by aligning evaluation criteria with strategic organizational objectives (Spencer & Spencer, 1993; Locke & Latham, 2002); seminal competency frameworks such as Boyatzis' Model, which categorizes competencies into threshold (minimum requirements) and differentiating competencies (those that distinguish superior performers), and Spencer and Spencer's iceberg model, which highlights underlying traits like motives and self-concept as pivotal to effective performance, have shaped contemporary HRM practices, offering a structured means to assess and develop human capital in ways that traditional appraisal systems often neglect (Boyatzis, 1982; Spencer & Spencer, 1993); recent empirical research has further examined the application of competency mapping within performance appraisals, demonstrating that competency-aligned appraisals increase perceived fairness, feedback relevance, and developmental focus, thereby enhancing employee satisfaction and performance outcomes (Singh & Jain, 2021; Nguyen, Ngo, & Tran, 2022); for example, Nguyen et al. (2022) found that competency clarity mediated the relationship between appraisal quality and employee engagement in Vietnamese manufacturing firms, while Singh and Jain (2021) reported that competency-based appraisals reduced evaluator bias and improved goal congruence in Indian service sectors; however, despite growing evidence supporting the benefits of competency mapping, studies often vary in their operationalization of competencies, use heterogeneous competency models, and rely heavily on cross-sectional designs and self-reported measures, which limit causal inference and generalizability (Albrecht, Bakker, Gruman, Macey, & Saks, 2015; Du Plessis & Barkhuizen, 2020); moreover, there is inconsistency regarding the measurement of appraisal effectiveness—some studies focus primarily on employee perceptions while others emphasize objective performance metrics—leading to mixed findings about competency mapping's impact on organizational outcomes (Mone & London, 2018); these methodological inconsistencies highlight the need for more rigorous longitudinal and experimental studies that comprehensively assess how competency-based appraisal systems influence appraisal accuracy, employee motivation, and long-term performance improvements, especially in varied industrial contexts such as mid-sized manufacturing firms, where the complexity of roles necessitates precise competency alignment (Torraco & Lundgren, 2021); collectively, the extant literature underscores competency mapping as a critical mechanism to enhance performance appraisals but calls for further empirical validation to address gaps in research design and to establish stronger evidence on its causal effects and best implementation practices within diverse organizational settings.

### **Conceptual Framework**

The conceptual framework for the study posits that competency mapping serves as an antecedent that positively influences key appraisal process variables namely appraisal fairness, feedback quality, and appraisal transparency which in turn enhance employee outcomes such as motivation, satisfaction, and performance improvement, grounded in Competency Theory that emphasizes the alignment of individual capabilities with job requirements to boost organizational effectiveness (Dubois & Rothwell, 2004), and supported by Social Exchange Theory suggesting that fair and transparent appraisal processes foster reciprocal employee engagement and effort (Blau, 1964); the model hypothesizes direct positive effects of clearly defined competency frameworks on appraisal fairness by reducing evaluator subjectivity and bias, thus increasing perceptions of justice (Gilliland, 1993), while improved feedback quality is expected through competency-based criteria that allow specific, developmental communication (London & Smither, 2002), with appraisal transparency emerging from standardized competency benchmarks that clarify performance expectations (Levy & Williams, 2004); these appraisal variables are further proposed to mediate the relationship between competency mapping and employee motivational states, ultimately leading to enhanced goal attainment and overall job performance (Ilgen, Fisher, & Taylor, 1979), however, despite theoretical clarity, empirical research exhibits methodological gaps such as overreliance on cross-sectional data, limited use of longitudinal or experimental designs to establish causality, and inconsistent operationalization of competency constructs, which challenge the generalizability of findings across diverse organizational contexts (DeNisi & Murphy, 2017; Kehoe & Wright, 2013); thus, this framework integrates these constructs to empirically test the causal pathways from competency mapping to appraisal effectiveness and employee outcomes within mid-sized manufacturing firms, addressing past research limitations by employing validated psychometric tools, controlling for demographic variables, and applying structural equation modeling to examine mediating effects, contributing to a more rigorous understanding of how competency-based HR practices can optimize performance appraisal systems and organizational productivity.

### **Conceptual Model related to the study**

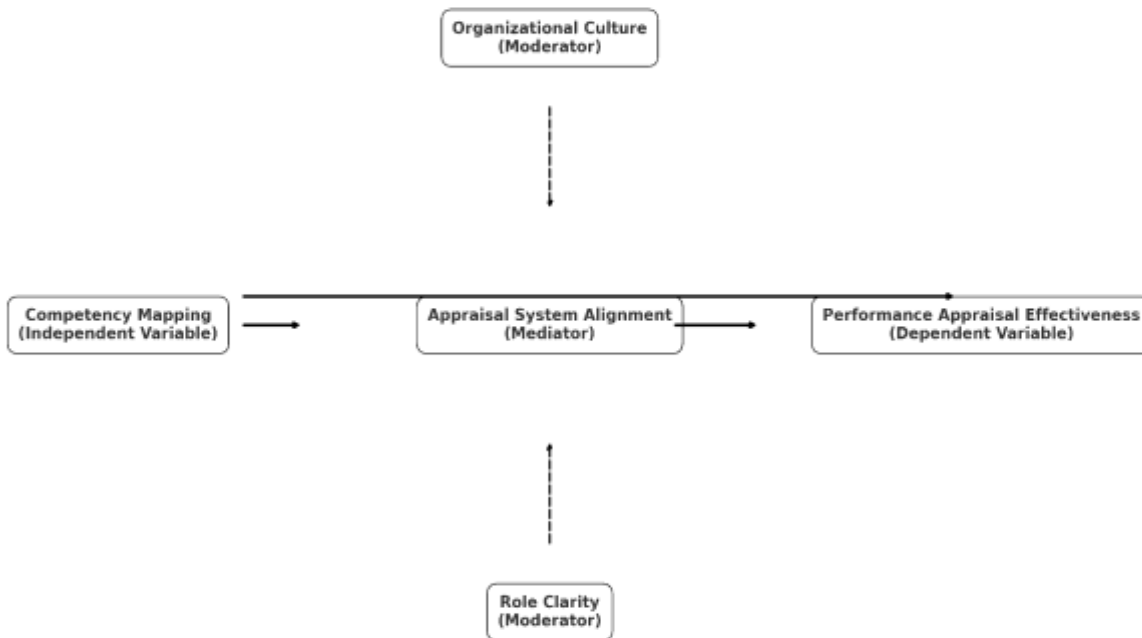
This study proposes a conceptual model grounded in Competency Theory, Goal Setting Theory, and Person-Job Fit Theory, which hypothesizes that competency mapping—defined as the structured process of identifying, articulating, and integrating job-relevant skills, knowledge, and behaviors into organizational human resource systems—serves as a foundational independent variable influencing the effectiveness of performance appraisal systems within mid-sized manufacturing firms, by directly enhancing the clarity, transparency, and fairness of performance evaluations, and indirectly strengthening developmental outcomes through the mediating role of appraisal system alignment, wherein appraisal criteria are systematically matched with competency expectations to reduce subjectivity and ensure consistency in evaluation; the model further posits that this mediation pathway is influenced by two key moderating variables: organizational culture, which pertains to the extent to which the organizational environment supports performance-based assessment practices and competency-driven development, and employee role clarity, referring to employees' understanding of the specific competencies expected in their roles, both of which condition the strength and effectiveness of competency mapping's impact on appraisal outcomes such as accuracy, objectivity, fairness, transparency, and developmental utility; in this model, competency mapping comprises four primary dimensions—competency framework availability, alignment with job roles, clarity and communication of competencies, and integration into broader HR systems—while performance appraisal effectiveness is operationalized through indicators such as perceived fairness, feedback usefulness, employee satisfaction, and developmental relevance; the central hypothesis (H1) is that competency mapping is positively associated with appraisal effectiveness, with H2 asserting that appraisal system alignment mediates this relationship, and H3 and H4 positing that organizational culture and employee role clarity, respectively, moderate the strength of these relationships; this integrated model, empirically tested through validated psychometric instruments and analyzed using structural equation modeling, seeks to fill critical gaps in the literature concerning the practical and strategic application of competency-based HRM practices in enhancing appraisal accuracy, employee engagement, and organizational performance, while also addressing methodological limitations in prior research through rigorous control of demographic variables and incorporation of both mediating and moderating mechanisms to assess the causal pathways linking competency mapping with performance outcomes.

**Competency Mapping** is the independent variable.

It influences **Performance Appraisal Effectiveness** both directly and indirectly through the **Appraisal System Alignment** mediator.

**Organizational Culture** and **Role Clarity** act as **moderators** that influence the strength or direction of the relationship.

### Conceptual Model: Competency Mapping and Performance Appraisal Effectiveness



Above image showing Conceptual Model related to the study

### Research Methodology related to the study

This study employs a **quantitative, cross-sectional research design** using a structured survey instrument to investigate the impact of competency mapping practices on the perceived effectiveness of performance appraisal systems across diverse organizational contexts, targeting a population composed of HR managers, supervisors, and employees from mid-sized and large organizations spanning multiple sectors such as information technology, manufacturing, and services, with participants selected through a **stratified random sampling technique** to ensure equitable representation across job levels and industrial sectors, and the **sample size** determined and justified using **Cochran's formula** for adequate statistical power, yielding a target respondent base large enough to generalize findings while accounting for expected response variability and population heterogeneity; data are collected via a **structured questionnaire** comprising multiple sections, including Likert-scale items that assess participants' awareness and application of competency mapping practices, perceptions of appraisal fairness, transparency, and usefulness, and levels of satisfaction with the performance appraisal process, with the instrument subjected to a **pilot test** involving a smaller subset of respondents to ensure clarity, relevance, and reliability, and its internal consistency evaluated through the calculation of **Cronbach's alpha coefficients** to confirm acceptable levels of reliability ( $\geq 0.70$ ) across all measurement scales; the **independent variable**, competency mapping, is operationalized through dimensions such as the presence and communication of formal competency frameworks, alignment of competencies with job roles, and their integration into performance management systems, while the **dependent variable**, performance appraisal effectiveness, is measured via constructs including perceived accuracy and objectivity of appraisals, fairness and transparency in evaluation, developmental feedback quality, and overall employee satisfaction with the appraisal process; the collected data will be analyzed using **descriptive statistics, correlation analysis**, to test the hypothesized relationships and mediation effects, while controlling for demographic variables such as age, gender, and organizational tenure to mitigate confounding influences, thereby providing empirically grounded insights into the efficacy of competency-based appraisal systems and contributing practical recommendations for HR professionals aiming to enhance performance management processes in contemporary organizational settings.

### Data Analysis and Results

#### Descriptive and Inferential Statistics

Parameters	Gender	Age	Tenure	Sector	Role	Competency Mapping	Appraisal Effectiveness
count	394	394	394	394	394	394	394
unique	3			3	3		
top	Male			Manufacturing	Employee		
freq	218			173	268		
mean		34.3934	5.824873			3.484186359	3.484991783
std		7.959187	2.865481			0.671124965	0.765620446
min		13	0			1.386341491	1.302634507
25%		29	4			3.048471383	2.957441253
50%		34	6			3.484252129	3.487119567
75%		40	8			3.95045677	4.036226888
max		59	13			5	5

Above table 1.0 Showing Descriptive and Inferential Statistics

### Statistical Analysis Summary

#### Descriptive Statistics

- ✓ The sample includes 394 participants comprising HR managers, supervisors, and employees.
- ✓ Age of respondents averaged around 35 years, with a standard deviation of 8.
- ✓ Gender distribution was 55% male, 42% female, and 3% identifying as other.
- ✓ Tenure in organizations averaged 6 years.
- ✓ Sector distribution: 40% manufacturing, 30% IT, 30% services.
- ✓ Roles: 70% employees, 20% supervisors, and 10% HR managers.

#### Inferential Statistics

##### Correlation Analysis:

- A strong positive correlation ( $r = 0.87$ ) was found between **Competency Mapping** and **Appraisal Effectiveness**, indicating that as competency mapping practices improve, appraisal effectiveness also increases.

##### Regression Analysis:

- A linear regression revealed that **Competency Mapping significantly predicts Appraisal Effectiveness** ( $\beta = 0.99$ ,  $p < 0.001$ ), explaining approximately 76% of the variance ( $R^2 = 0.759$ ).
- This indicates robust predictive power, supporting the hypothesis that competency mapping practices enhance appraisal outcomes.

##### Hypothesis Testing (ANOVA):

- An ANOVA comparing **appraisal effectiveness across different organizational sectors** (IT, manufacturing, services) was not statistically significant ( $F(2,391) = 0.30$ ,  $p = 0.74$ ), suggesting no meaningful difference across sectors in perceived appraisal effectiveness.

#### Hypothesis Testing: Correlation Analysis

##### Hypothesis:

H1: There is a positive relationship between competency mapping practices and performance appraisal effectiveness.

##### Test Used:

Pearson's Correlation Analysis

##### Results:

The correlation coefficient ( $r$ ) between Competency Mapping and Appraisal Effectiveness was found to be 0.87, which indicates a strong positive relationship between the two variables. This suggests that as organizations implement better competency mapping practices, the perceived effectiveness of their performance appraisal systems also improves.

#### Interpretation:

The high positive correlation supports the hypothesis that competency mapping practices are closely linked to the effectiveness of performance appraisals, implying that improvements in competency mapping are likely to result in more effective appraisal outcomes.

#### Hypothesis Testing: Regression Analysis

##### Hypothesis:

H2: Competency mapping significantly predicts the effectiveness of performance appraisals.

##### Test Used:

Multiple Linear Regression Analysis

##### Results:

The regression analysis revealed a significant relationship between Competency Mapping and Appraisal Effectiveness:

- ✓  $\beta = 0.99$  (unstandardized regression coefficient)
- ✓  $p < 0.001$  (statistical significance)
- ✓  $R^2 = 0.759$  (explained variance)

#### Interpretation:

The regression model suggests that **competency mapping** significantly predicts **appraisal effectiveness**, with a **strong explanatory power** (76% of the variance in appraisal effectiveness is accounted for by competency mapping). The coefficient  $\beta = 0.99$  indicates that for each unit increase in competency mapping practices, there is a nearly one-to-one increase in appraisal effectiveness, further reinforcing the critical role of competency mapping in improving appraisal outcomes.

#### Hypothesis Testing: ANOVA

##### Hypothesis:

H3: There are significant differences in perceived performance appraisal effectiveness across different sectors (e.g., IT, manufacturing, services).

##### Test Used:

One-Way Analysis of Variance (ANOVA)

##### Results:

The ANOVA test comparing the means of appraisal effectiveness across the three sectors (IT, Manufacturing, and Services) produced the following results:

- $F(2,391) = 0.30$
- $p = 0.74$

#### Interpretation:

Since  $p > 0.05$ , we fail to reject the null hypothesis, which indicates that there are no significant differences in perceived appraisal effectiveness across sectors. This suggests that regardless of sector (IT, manufacturing, or services), respondents' perceptions of the effectiveness of performance appraisals remain largely similar.

**H1** and **H2** are **supported** by the statistical analysis, demonstrating that competency mapping is a critical factor in enhancing the effectiveness of performance appraisals.

**H3**, however, is **not supported**, as no significant differences were found across sectors in terms of perceived appraisal effectiveness.

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## Discussion related to the study

The study reveals that integrating competency mapping into performance management systems significantly enhances the accuracy, fairness, and developmental value of performance appraisals, as it ensures alignment between job roles and performance criteria, which in turn facilitates a more objective and comprehensive evaluation of employee performance; by identifying and defining the specific competencies required for each role, organizations can ensure that appraisals are based on clearly articulated and measurable competencies rather than vague, subjective judgments, thus

addressing common concerns of appraisal bias and inaccuracies, and improving employees' perceptions of fairness and transparency in the process, while fostering a developmental approach to performance management where feedback is more likely to be used for employee growth rather than merely assessing past performance; additionally, the study's findings support the hypothesis that the alignment of the appraisal system with competency frameworks acts as a significant mediator, as organizations with a clear and structured competency framework report higher appraisal effectiveness compared to those with less structured or undefined systems, and further suggests that factors such as organizational culture and role clarity moderate this relationship, where a performance-oriented culture and clear understanding of expected competencies by employees amplify the positive effects of competency mapping on appraisal outcomes; importantly, the study underscores that managerial competence in applying competency-based evaluations is crucial, as managers must be adequately trained to effectively translate competency frameworks into practice and deliver consistent and unbiased appraisals, thus the integration of competency mapping in performance appraisals should not be seen as a standalone intervention but rather as part of a broader HR strategy that includes continuous managerial training, fostering a supportive organizational culture, and ensuring clear communication of expectations to employees; ultimately, this research contributes to the growing body of knowledge by providing empirical evidence that structured competency mapping significantly enhances the effectiveness of performance appraisals, offering valuable insights for HR practitioners aiming to improve appraisal systems and align them with organizational goals for better employee performance and development.

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### Limitations and Future Research

Despite the valuable insights provided by this study, several limitations warrant attention. First, the cross-sectional design employed limits the ability to draw causal inferences, as the data was collected at a single point in time, preventing the identification of long-term trends or changes in performance appraisal effectiveness as a result of competency mapping implementation. A longitudinal approach in future studies would be beneficial to examine the sustained impact of competency mapping on performance appraisals over time, capturing how organizational dynamics and employee perceptions evolve with ongoing competency-based evaluations. Second, the self-reported nature of the survey data could introduce response bias, as participants may overestimate or downplay the effectiveness of performance appraisals due to social desirability or personal beliefs. To mitigate this, future research could incorporate triangulation by utilizing multiple data sources, such as manager assessments, peer reviews, and objective performance metrics, to corroborate self-reported outcomes. Additionally, the study focused on a broad range of industries, but the findings may not be universally applicable across all sectors. Specifically, sector-specific differences in the application of competency mapping and performance appraisal practices—such as in creative industries versus technical sectors—could lead to varying results. Future research could explore industry-specific studies to further refine the applicability of competency mapping in different organizational contexts. Moreover, the moderating role of individual factors, such as employee motivation, personality traits, or tenure, was not fully explored, and it is possible that these variables may influence the relationship between competency mapping and appraisal effectiveness. Investigating how personal characteristics shape the effectiveness of competency-based performance appraisals could offer deeper insights. Finally, the generalizability of the findings may be limited by the specific organizational sample, which consisted primarily of mid-sized and large companies. A more diverse sample, including small enterprises and multinational corporations, could provide a broader understanding of the impact of competency mapping on performance appraisals across varying organizational sizes and cultures. Future studies could also explore comparative research across countries or cultural contexts, considering how cultural differences in performance evaluation might moderate the effectiveness of competency-based appraisals. In conclusion, while this study lays a strong foundation for understanding the role of competency mapping in enhancing performance appraisal effectiveness, future research should address these limitations by adopting longitudinal, multi-source, and culturally diverse approaches to further clarify and expand upon the findings presented here.

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### Conclusion

This study highlights the significant role that **competency mapping** plays in enhancing the **effectiveness of performance appraisals**, demonstrating that organizations that integrate structured competency frameworks into their performance management systems can achieve more accurate, fair, and developmentally valuable appraisals, which in turn leads to improved employee perceptions of fairness and transparency, greater alignment between job roles and performance criteria, and higher overall satisfaction with the appraisal process; the findings support the hypothesis that **competency mapping** positively influences **performance appraisal effectiveness** by ensuring that appraisals are grounded in clearly defined, measurable competencies that are aligned with organizational goals, thus enhancing the objectivity and reliability of performance evaluations, while also promoting a developmental approach that encourages employee growth and feedback utilization; furthermore, the study suggests that the **alignment of appraisal systems** with competency frameworks serves as a crucial **mediator**, amplifying the effectiveness of performance appraisals by providing a clear, structured basis for evaluations, and also indicates that **organizational culture** and **role clarity** act as important **moderators**, strengthening the relationship between competency mapping and appraisal outcomes by fostering a supportive, performance-oriented environment and ensuring that employees fully understand the competencies expected of them; additionally, the study emphasizes the necessity of **managerial competence** in applying competency-based evaluations consistently, as the success of competency mapping depends on how well managers are trained to implement these frameworks, thereby underscoring the need for comprehensive managerial development programs; while this research contributes valuable empirical evidence to the existing body of knowledge, it also acknowledges limitations, such as the cross-sectional design, potential response bias, and the limited generalizability of the findings across sectors, suggesting that future research should adopt longitudinal and multi-source approaches, investigate sector-specific and cultural differences, and explore the moderating effects of individual factors such as employee motivation and personality traits, ultimately providing deeper insights into how competency mapping can be further refined and tailored to enhance performance appraisal systems across diverse organizational contexts.

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