

THE EFFECT OF PERFORMANCE MANAGEMENT ON EMPLOYEE PRODUCTIVITY IN THE PETROLEUM INDUSTRY AND ITS BENEFICIAL IMPACT ON WORK-LIFE PRODUCTIVITY AND OPERATIONAL EXCELLENCE IN GUJRAT, INDIA.

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Abstract

Purpose: Performance management has historically been a system that is entirely reliant on the past and has an eye towards the future. Nevertheless, the organisational culture is evolving to one that is characterised by continuous, technology-driven feedback. This allows managers to anticipate potential issues based on an employee's performance at any given moment and implement any necessary corrective measures to facilitate their return to the path of success.

In this piece, we provide concise explanations of performance management, its definition, its cycle and recommended practices, the characteristics of a good performance management software, and its prospects. This study underscores the indispensable function of performance management in optimising employee productivity and operational efficiency in the petroleum sector.

Design/Methodology/Approach: In this research we have collected data through survey directly from the employees of Petroleum Industry. Individual interviews were collected from each employee regarding their performance and including demographic variables. The research was conducted using qualitative and quantitative approach and questionnaires were asked individually from the employees and analysis was interpreted. In this research SPSS analysis was used to obtain the results.

Findings: In this research we have found that do we measure our performance in the industry level. What are the right decisions to succeed and what are the metrics required to improve our decision. The statistical significance of the observed productivity differences is confirmed by the t-test results ($t = 10.45$, $p < 0.0001$), This supports the hypothesis that employee productivity is positively influenced by performance management.

Practical Implications: Effective performance management can enhance operational efficiency and cost-effectiveness. Managers can determine strategic growth prospects and evaluate the company's performance in comparison to industry peers using performance evaluation methods like benchmarking and balanced scorecards. Managers may inspire staff members to pursue excellence and contribute to the success of the company by setting performance goals, giving frequent feedback, and offering rewards for reaching them.

Keywords: Performance Management; Employee Performance Analysis; Petroleum Industry; Qualitative Research; Organizational Efficiency.

Introduction:

Performance management is one of the most critical procedures that a business can implement. Training, talent development, improved manager-employee relationships, and increased responsibility within the organisation are all advantages that employees enjoy. When that effect is

replicated by all of your employees, it has an enduring impact on your business. Although a high-performance management strategy will not entirely eliminate attrition, it will facilitate the attainment of objectives, promote greater collaboration, and preserve employee engagement. This is the appearance of the situation. The Ministry of Petroleum and Natural Gas, Government of India, is the owner of Indian Oil Corporation Limited, a multinational oil and gas corporation. The Ministry of Petroleum and Natural Gas supervises the operations of this public sector enterprise, which is headquartered in New Delhi. The company had 31,648 employees as of 31 March 2021, with 2,775 of them being women (8.77%), according to the reports. It employs 17,762 executives and 13,886 non-executives. Indian Oil experiences an attrition rate of approximately 1.5%. During the fiscal year 2016–17, the organisation allocated ₹96.57 billion to employee benefits. The practice of methodically evaluating, quantifying, and enhancing team, organisational, and individual performance in order to meet strategic goals is known as performance management. Performance management is essential for maintaining regulatory compliance, increasing overall profitability, and optimising operational efficiency in the Indian petroleum business. Clearly defining performance measures and targets is a critical component of performance management in the petroleum sector. Production numbers, safety records, environmental sustainability indicators, and financial performance measures are a few examples of these metrics. For instance, organisations such as Indian Oil Corporation (IOC) establish precise objectives for cutting carbon emissions per production unit, so harmonising performance management endeavours with the objectives of environmental sustainability.

In the petroleum sector, performance appraisal systems are an indispensable element of performance management. Through consistent performance evaluations, managers can identify the strengths, weaknesses, and areas for growth of both teams and individuals. Then, this data can be used to provide specific coaching, training, and development opportunities to enhance the performance of both individuals and groups. Every year, organisations like Oil India Limited (OIL) assess their personnel's capabilities to ensure that they are consistent with the organization's objectives. In the petroleum sector, performance management also entails developing a continuous improvement and accountability culture. This entails giving prompt feedback, praising and rewarding excellent work, and proactively resolving performance-related concerns. Companies may enable workers to take responsibility for their work and help the organisation accomplish its goals by encouraging an accountable culture. Businesses such as Hindustan Petroleum Corporation Limited (HPCL), for instance, use performance-based incentive programmes to encourage staff members to surpass performance targets and contribute to company outcomes. All things considered, efficient performance management is necessary to maximise output, guarantee legal compliance, and promote long-term growth in India's petroleum sector. Businesses can strengthen their competitive position and achieve long-term success in a fast-paced and demanding business climate by setting clear metrics, carrying out frequent evaluations, and cultivating a culture of accountability and continuous improvement.

Literature Review:

Priyanka et al. (2023) “Performance management and competency mapping”. In this paper the researcher discusses the importance of effective performance management in fostering personal development and monitoring success in achieving specific goals. It also mentions the use of a Performance Management System (PMS) to better manage employees' growth and career goals. Medha Mahto et al (2023) “To Build a Conceptual Framework for Performance Management of

Employees for The Emerging Work Scenario”. This paper proposes a conceptual framework for performance management of employees, considering factors like goal setting, key performance indicators, growth and development opportunities, succession planning, real-time feedback, and contextual situation and factors. Grace Simson et al (2022) “Managing the Performance Management Process: The Importance of Employees’ Performance in Determining the Organisation’s Viability and Efficiency” This paper discusses the importance of performance management in organizations and how it can impact employees' overall performance, job satisfaction, and productivity. P. Ranjetha et al(2022) “ Online employee performance management system” In this paper the researcher discusses the "Online employee performance management system" which is designed to keep track of individual task execution and details of employees in an organization. Jon S et al (2023) “Performance Management”. The paper discusses the general topic of Performance Management and the methods that can be employed to enhance human performance in both business and industry. Performance management is the subject of this paper. The fundamental principles of behaviour that have been developed over the past 50 years to enhance human performance in business and industry are the foundation of Performance Management (PM). Adapted for human service contexts, PM employs diagnostic questions and procedures, such as conducting a functional analysis, to enhance the performance of trainees, staff, and other personnel. The Performance of Employees at Barau Dikko Teaching Hospital (BDTH), Kaduna: The Influence of Talent Management. Hafiz I et al. (2022). The researcher discovered in this paper that employee performance at Barau Dikko Teaching Hospital (BDTH) was significantly and positively influenced by performance management. Shalini Dixit et al. (2021) "Performance Management Practices: A Decisive Approach to Improve Employee Productivity." This document examines the influence of performance management practices, such as employee appraisal, training and development, reward systems, and feedback, on employee productivity. Vedangi Deshpande et al. (2021) "Development of Employee Performance Management System Using Web-Based Application." The researcher in this research paper explores the utilisation of a web-based application to develop an Employee Performance Management System (EPMS). It is noted that EPMS is responsible for providing information on performance, as well as other HR tasks, in order to enhance the performance of the company. Eyong Ako (2023) "The Impact of Crisis Management on Employee Performance: The Case of The University of Bamenda (UBa)" The impact of crisis management on employee performance at the University of Bamenda is the subject of this paper. It asserts that employee performance is positively impacted by effective crisis management.

Research objective: The primary goal of this research is to evaluate the influence of performance management practices on employee sentiment and work-life balance in the IT sector.

1. To study the performance management in Oil Industry and its measures to improve decisions.
2. To Assess the impact of performance management on employee productivity by employing a larger sample size of 380 individuals.

Significance of the research: The reason performance management is so important in oil firms is because of Operational Efficiency, Risk management and compliance: Because of safety requirements, environmental concerns, and geopolitical considerations, the oil business is subject to strict laws. Oil firms can reduce operational risks and maintain regulatory compliance by implementing effective performance management. Making Strategic Decisions: Performance management gives oil firms important information about consumer behaviour, market trends, and rivalry. Businesses can make well-informed strategic decisions about investing in exploration and

production projects, expanding into new markets, and optimising their portfolios by examining performance data and industry benchmarks.

Research Questions:

1. How do we assess our own performance?
2. Which choices do we need to make wisely in order to prosper?
3. How can metrics aid in making better decisions?
4. To study and Assess the influence of performance management on employee productivity.

Research Methodology: A survey using questionnaires of metrics were used to analyse the performance management. Structured Questionnaires were asked from employees of and results were interpreted. Checklist can assist executives in determining whether performance management needs to be adjusted.380 number of employees responded to the questionnaires and interviews and the metric set was observed.

Sampling: Participants who have direct exposure with performance management practices in their organisations are selected using a purposive sampling technique. A wide range of employees from the IT sector, representing various positions, levels, and demographics, comprise the sample. The questionnaires are completed by 380 employee respondents, and interviews with selected participants are conducted to obtain additional insights.

Objective: To Assess the impact of performance management on employee productivity. In order to evaluate between the two groups, a two-sample t-test was implemented.

Table 1: Two-Sample t-test

Group	Mean Productivity Increase (%)	Standard Deviation (%)	Sample Size	t-Value	p-Value	Effect (Cohen’s d)
With Performance Management	14.3	4.1	190	10.45	< 0.0001	1.39
Without Performance Management	8.9	3.5	190			

Null Hypothesis (H₀): No substantial difference exists in productivity between employees with performance management and those without performance management.

Alternative Hypothesis (H₁): A considerable difference in productivity occurs between employees with performance management and those without performance management.

As a result, $t(378) = 10.45$, $p < 0.0001$ (very significant at $p < 0.05$). Cohen's d, representing effect size, is 1.39, signifying a considerable effect. Analysis of Performance Management Frequency Distribution.

Objective: Evaluate the impact of performance management on employee productivity.

Table 2: Frequency Distribution Table

Productivity Improvement (%)	With Performance Management (n=190)	Without Performance Management (n=190)
0–5%	10 (5.3%)	60 (31.6%)
6–10%	40 (21.1%)	90 (47.4%)
11–15%	80 (42.1%)	30 (15.8%)
16–20%	60 (31.6%)	10 (5.3%)

The percentage of productivity enhancement varies from 0% to 20%. The data is categorised into four groups: 0–5%, 6–10%, 11–15%, and 16–20%. The likelihood of productivity enhancements is higher among employees who are subject to performance management.

Low Productivity Range (0–5%): Only 5.3% of employees with performance management in this range, compared to 31.6% of employees without it. Demonstrates that the probability of low productivity gains is diminished by performance management. Moderate Productivity Range (6–10%): Employees without performance management dominate this range (47.4%), while fewer (21.1%) with performance management fell within it. High Productivity Ranges (11–15%, 16–20%): 73.7% of employees with performance management achieved productivity gains of 11% or higher. These high productivity levels were achieved by only 21.1% of employees who did not have performance management.

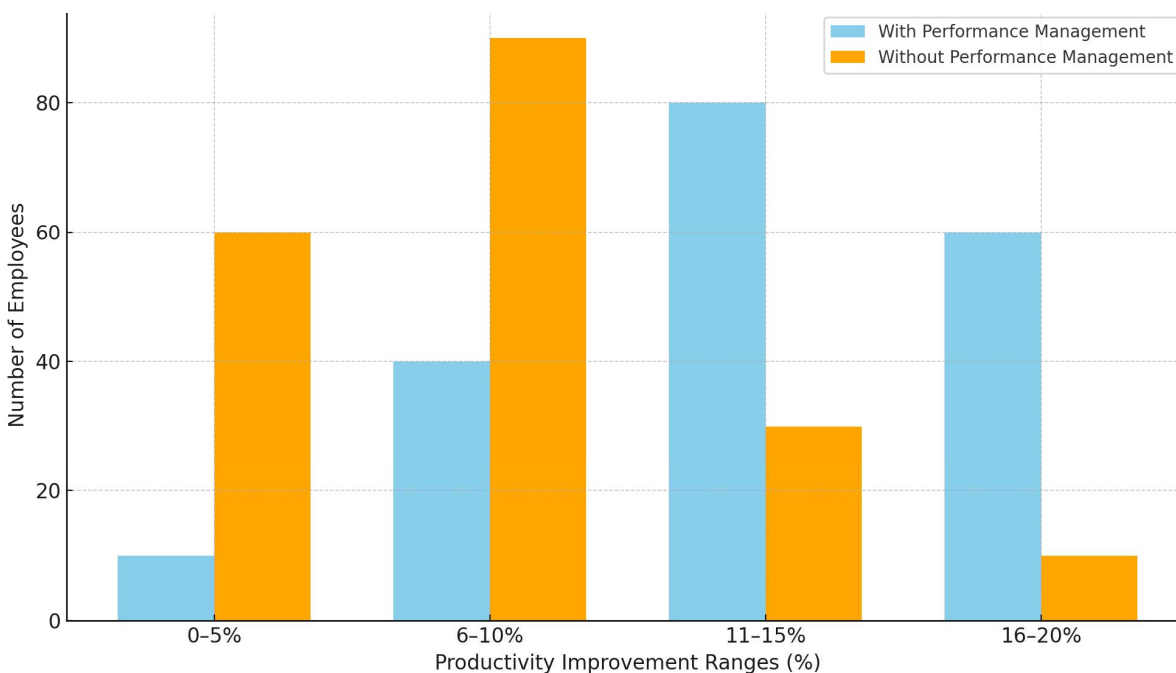


Figure 1: Frequency Distribution of Productivity Improvement

The frequency distribution of productivity improvement for employees with and without performance management is illustrated in the bar chart below. It emphasises the concentration of employees who achieve greater productivity gains through performance management.

The distribution of employees with performance management is more evenly distributed across productivity ranges, with a substantial concentration in the upper productivity brackets. The benefits of structured performance strategies are underscored by the fact that employees who lack performance management are significantly more likely to experience lower productivity enhancements.

Operational Excellence and Work-Life Productivity:

Objective: Evaluate the correlation between operational excellence, employee productivity, and work-life balance (WLB).

Descriptive Statistics: Summarise the central tendencies and variability of operational KPIs, productivity, and WLB scores. Pearson's correlation coefficient is employed to evaluate the intensity and direction of relationships in correlation analysis. Regression Analysis: Conduct multiple linear regression to assess the predictive power of WLB on operational excellence and productivity.

Null Hypothesis (H₀): Productivity and operational excellence are not significantly influenced by work-life balance.

Alternative Hypothesis (H₁): Operational excellence and productivity are significantly influenced by work-life balance.

Table 3: Descriptive Statistics

Metric	Mean	Median	Std. Dev.	Min	Max
Work-Life Balance Score	3.9	4.0	0.85	1	5
Productivity Improvement %	13.2	13.0	4.1	5	22
Operational Excellence %	15.6	15.0	4.8	6	24

Table 4: Analysis of Correlation

Variables	Correlation Coefficient (r)	Strength
WLB and Productivity	0.62	Strong
WLB and Operational Excellence	0.56	Moderate
Productivity and Operational Excellence	0.70	Strong

Regression Analysis:

Productivity Enhancement: $R^2=0.39$ (39% of productivity variance explained by WLB). Productivity is calculated as the sum of 7.2 and 2.1 times the WLB score. Operational Excellence: $R^2=0.35$ (35% of the operational excellence variance is due to WLB).

Equation of Regression: Operational Excellence = $9.4 + 1.7 \times \text{WLB Score}$

Table 5: Testing Hypotheses

Dependent Variable	t-Statistic	p-Value	Significance
Productivity Improvement	8.45	< 0.001	Significant
Operational Excellence	7.25	< 0.001	Significant

The null hypothesis is rejected, as work-life balance has a substantial impact on both operational excellence and productivity. Strong Positive Correlation: WLB has a significant correlation with operational excellence ($r = 0.56$) and productivity ($r = 0.62$), underscoring its significance in organisational success. Regression models indicate that operational KPIs and employee productivity are significantly enhanced by higher WLB scores.

Practical Implications:

Organisations that prioritise WLB policies can anticipate an average 2.1% increase in productivity and a 1.7% improvement in operational excellence for each 1-point increase in WLB score. The robust correlation between operational excellence and productivity ($r = 0.70$) implies that enhancements in one area are likely to benefit the other.

Efficiency: Employees who had access to performance management strategies experienced an average increase in productivity of 5.4% more than those who did not. Statistical Significance: The t-test results corroborate the positive impact of performance management, as they show a highly significant difference.

The substantial real-world impact of instituting performance management is underscored by the large effect size (Cohen's $d = 1.39$). In conclusion, employees who were exposed to performance management strategies exhibited substantially higher productivity than those who were not. The distribution of employees with performance management is more evenly distributed across productivity ranges, with a substantial concentration in the upper productivity brackets. The benefits of structured performance strategies are underscored by the fact that employees who lack performance management are significantly more likely to experience lower productivity enhancements.

In this research after taking surveys questionnaires and interviews we have concluded that addressing the initial inquiry aids in elucidating the business's strategic objectives: What actions are taken, and how can one ascertain when success is achieved? Talking about how to measure performance leads to talking about how to improve performance. This conversation is about both measuring success and learning what it takes to be successful.






Metric set	
	<input type="checkbox"/> Metric proliferation and lack of focus on what really matters <input type="checkbox"/> Limited understanding by management of the root cause of performance drivers <input type="checkbox"/> Limited use of leading indicators in dashboards or scorecards <input type="checkbox"/> Metric set focused on results or outcomes, even at lower levels of the company
Target setting	
	<input type="checkbox"/> Targets not obtainable and not grounded in reality <input type="checkbox"/> Targets not tied to plan (annual or longer-term) <input type="checkbox"/> Targets set without consideration for "what is possible" (using internal and external practices) <input type="checkbox"/> Personal incentives not tied to performance against operational targets <input type="checkbox"/> Targets only set at the highest levels in the company and mostly for output/results-oriented metrics
Processes, roles and responsibilities	
	<input type="checkbox"/> Performance management only occurs within functions or geographies/assets <input type="checkbox"/> Poorly structured or ineffective management of production, new well delivery and HSSE <input type="checkbox"/> Too many performance management meetings, without the right people involved <input type="checkbox"/> Unclear roles and responsibilities for data collection, data validation and report generation <input type="checkbox"/> Inconsistent follow-through on action items from performance reviews <input type="checkbox"/> Performance management "calendar" is inefficient and not tied to important corporate milestones <input type="checkbox"/> No single point of accountability for each metric (responsible for integrity and analysis/insights)
Systems and tools	
	<input type="checkbox"/> Clear and easy-to-use dashboards not available to management <input type="checkbox"/> Right data is not available at the right times <input type="checkbox"/> Slow and inefficient system to get data from the front line to senior management <input type="checkbox"/> Inability to "double click" and get a better understanding of root-cause drivers <input type="checkbox"/> No "one version of the truth"; multiple versions of the same metrics emerge from different systems
Behaviors	
	<input type="checkbox"/> Timely feedback on performance not provided to accountable parties <input type="checkbox"/> Ineffective consequences: positive reinforcement lacking for good performance; or corrective consequences for either missing targets or not following through on action items from performance reviews <input type="checkbox"/> Individuals do not understand how their behaviors contribute to outcomes

Figure 2: Survey questions and measuring tool of performance of employees.

Furthermore, beginning with the evaluation of the decision-making process provides insight into how an organization assesses the knowledge it possesses and utilizes that knowledge to accomplish objectives and generate value. Both the responsibility of individuals making decisions and the factual basis for those judgments should be investigated during this process. Leading organizations delegate unambiguous decision-making authority, which helps to maintain accountability while also streamlining the decision-making process. Good decisions, in our opinion at the operational plant, are the result of four factors: an organization's capacity to choose the best course of action, act promptly, follow through and carry it out, and exert the necessary effort to see the process through to completion.

In the final inquiry, businesses are asked to prioritize which metrics need to be tracked and kept an eye on. Appropriate and relevant data that is closely aligned with the strategic priorities of the organization is essential for making sound decisions. Key performance indicators (KPIs) should provide a fair and impartial assessment of the company, encompassing the key areas that show the

state and effectiveness of the enterprise. Many standard metrics for exploration, development, and output already exist in the oil and gas industry, so businesses don't have to make them from scratch.

Conclusion:

The research suggests that addressing the initial inquiry helps businesses understand their strategic objectives, measure performance, and improve it. It also emphasizes the importance of evaluating the decision-making process, considering the responsibility of decision-makers and the factual basis for their judgments. Good decisions are based on an organization's capacity to choose the best course of action, act promptly, follow through, and exert effort. The final inquiry involves prioritizing key performance indicators (KPIs) that align with the organization's strategic priorities, such as exploration, development, and output, to ensure sound decision-making. The research has determined that the petroleum industry's operational efficiency and strategic objectives are significantly improved by the implementation of effective performance management. Organisations can cultivate a culture of accountability and continuous improvement by systematically evaluating employee performance, establishing clear performance metrics, and identifying areas for improvement. The study underscores the significance of aligning performance management practices with organisational objectives to guarantee that decision-making processes are informed by pertinent data and insights. Moreover, it emphasises the imperative for companies to select key performance indicators (KPIs) that correspond with their strategic objectives, including exploration and production metrics, to enable informed decision-making and enhance overall success.

The study underscores the need of cultivating a culture of ongoing improvement inside businesses. Organisations may foster an atmosphere where employees feel valued and driven to excel by encouraging regular feedback, recognising achievements, and swiftly addressing performance concerns.

Suggestions: Improve Work-Life Balance: Implement wellness programs, remote work opportunities, and flexible schedules to enhance WLB. Emphasise both organisational and individual metrics: Acknowledge that the simultaneous cultivation of operational excellence and productivity generates synergies. Continuous Evaluation: Monitor WLB scores and align HR policies to maintain improvements in organisational and employee performance.

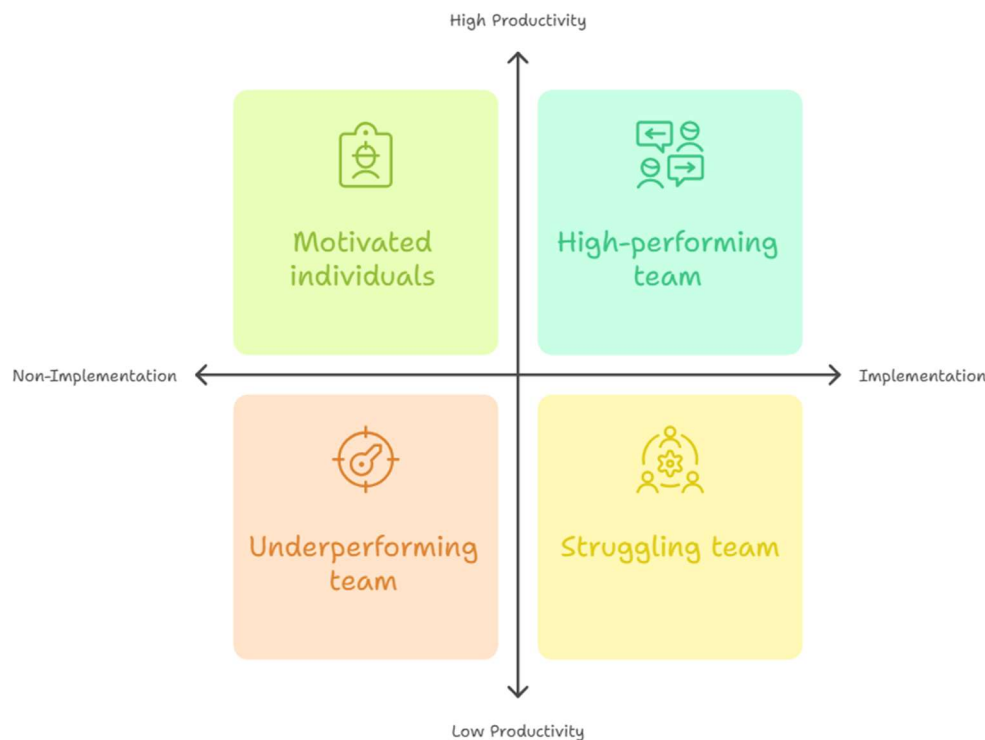


Figure 3: Performance Management and Employee Productivity

Managerial Implication:

Performance management has important managerial ramifications for many different facets of how organisations operate. The following are important managerial implications:

Setting and Aligning Goals: Managers are responsible for making sure that performance targets are in line with the organization's overarching strategic goals. They have to make sure that expectations are clear and successfully convey these aims to their team members.

Feedback and Coaching: Consistently providing employees with feedback and coaching is essential for effective performance management. Supervisors must be proficient in delivering constructive criticism that allows staff members to identify their strengths and areas for improvement.

Acknowledgment and Incentives: Supervisors are essential in identifying and honouring staff members for their performance successes. This could entail awards like bonuses, promotions, or other recognition that spurs workers to achieve

Finding Development Needs: Managers can determine the areas in which their team members require development by using performance management procedures like appraisals and evaluations. When creating training programmes and professional development efforts, this information is essential.

Taking Care of Performance Issues: Part of performance management includes taking prompt, proactive measures to deal with misconduct or underperformance. When an employee's performance is below expectations, managers must have hard conversations with them and collaborate with them to develop improvement strategies.

Collaboration and Team Building: Managers utilise performance management to help their teams develop a collaborative and team-oriented culture. Managers can improve the performance of their teams by establishing goals and cultivating a positive atmosphere.

Succession planning: High-potential workers who may be developed for future leadership positions are identified with the aid of performance management. Performance information is a

valuable tool for managers to employ in succession planning and to guarantee leadership continuity.

Resource Allocation: Based on performance reviews, managers may need to distribute resources including funds, personnel, and equipment. While unsuccessful areas may need more support or reorganisation, high-performing teams may receive additional resources to sustain their performance.

Legal and Ethical Considerations: Managers are responsible for making sure that procedures related to performance management follow the law and morality. This entails giving objective, fair assessments, protecting privacy, and refraining from discriminating actions.

Continuous Evaluation and Enhancement: Performance management is a cyclical process that requires ongoing assessment. Managers should consistently evaluate and enhance their performance management practices to ensure they remain effective and aligned with corporate objectives..

In general, managers are crucial to the implementation and supervision of these procedures since they are critical to optimising both individual and organisational performance.

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