



# An Analysis of the Role of HR in Managing Employee Health and Safety in the Workplace

\*Mr. Fasi Ur Rehman

Assistant Professor

J.B. Institute of Engineering and Technology

\*\*Mr. B. Arun Kumar

J.B. Institute of Engineering and Technology

## How to Cite this Article:

Kumar, B. A. (2026). An Analysis of the Role of HR in Managing Employee Health and Safety in the Workplace. International Journal of Creative and Open Research in Engineering and Management, <i>02</i>(04).

<https://doi.org/10.55041/ijcope.v2i3.261>

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<https://doi.org/10.55041/ijcope.v2i3.261>

## Abstract

Corporate financial decision-making is heavily influenced by the cost of capital, which is the lowest rate of return needed to appease investors and maintain the value of the business. To improve financial performance and attain long-term sustainability, it is vital to efficiently control the cost of capital. In this analysis, we look at how some companies' financial performances were affected by the cost of capital. Various indicators are used to measure the cost of capital, including cost of debt, cost of equity, and weighted average cost of capital (WACC). On the other hand, profitability metrics like return on assets (ROA), return on equity (ROE), net profit margin (NPM), and earnings per share (EPS) are used to assess financial performance.

## Introduction—

The Information Technology (IT) sector has witnessed extraordinary growth revolutionizing the contemporary workplace and altering our work methodologies. IT professionals, who often engage in extensive and complex tasks, encounter specific physical, mental and emotional challenges. Prolonged screen exposures, sedentary lifestyles, and high stress environment can result in musculoskeletal issues, eye strain, anxiety and depression. Additionally, the fast-paced nature of IT work necessitates constant learning, adaptability, and innovation, increasing the pressure on employees.



To address these challenges, organizations have adopted various safety and welfare measures aimed at safeguarding and supporting their IT workforce. These initiatives include:

- Physical health programs (such as ergonomic solutions, eye care, and fitness initiatives)
- Mental health support (including counseling, stress management, and employee assistance programs)
- Work-life balance initiatives (such as flexible working hours, remote work options, and leave policies)
- Training and development programs (covering technical skills, soft skills, and leadership development)
- Diversity, equity, and inclusion initiatives (including anti-discrimination policies, diversity training, and employee resource groups)

Despite these efforts, there are ongoing concerns about effectiveness and comprehensiveness of safety and welfare measures in the IT sector. Questions persist about the sufficiency of current provisions, the level of employee engagement, and their impact on employee well-being and productivity.

This study aims to examine the safety and welfare measures currently available to IT employees, assessing their impact on employee well-being, productivity, and job satisfaction. By exploring the current state of these provisions, this research seeks to:

Identify best practices in safety and welfare measures

Reveal gaps are areas needing improvement

Guide the creation of comprehensive wellness programs

Foster a healthy, safe and supportive work environment for IT professionals

## **SAFETY MEASURES**

### Physical safety measures

- Provision of ergonomics furniture and workstations
- Implementation of eye care programs, including exams, corrective lenses, and specialized software
- Encouragement of regular breaks and stretching software
- Maintenance of appropriate lighting and temperature conditions
- Ensuring safe handling of equipment and cables

### Mental health and wellness measures:

- Access to employee assistance programs for addressing stress, anxiety, and depression.
- Availability of mental health days and flexible leave policies
- Offering mindfulness and meditation initiatives

### Cybersquatting and data protection measures:

- Conducting regular security training and awareness sessions
- Enforcing strong password policies and multi-factor authentication
- Implementing data encryption and backup procedures
- Adopting secure coding practices and through code reviews
- Establishing incident response plans and breach notification protocols



## **Problem Statement**

The IT industry's fast-paced and demanding work environment can significantly impact employee safety and welfare. Despite the critical need for a safe and healthy workplace, there is insufficient understanding of the specific safety needs of IT employees, the current safety and welfare practices in place, and how these measures affect employee well-being, job satisfaction, and productivity.

This study aims to explore the safety and welfare provisions available to IT employees, evaluate their impact on various employee outcomes, and identify areas for improvement. By addressing these issues, the study intends to provide insights for developing effective safety and welfare strategies that foster a healthy and productivity work environment for IT employees.

## **Scope of the study**

This study concentrates on analyzing the safety and welfare measures provided to IT employees at company. It specifically aims to identify the safety needs of these employees, encompassing physical, ergonomics, and mental health aspects. The study will evaluate the company's current safety and welfare practices, including safety protocols, work-life balance strategies, and training initiatives. Additionally, it will examine how these safety measures influence employee well-being, job satisfaction, and productivity. The scope of this research is limited to IT employees within organization and does not extend to other industries, external factors affecting safety and welfare, or the long-term impacts of safety measures on overall employee health and productivity.

## **Objectives of the Study**

1. To understand about the employee safety measures requirements
2. To study the current practices of the IT company's safety and welfare measures for employees
3. To analyze how these measures affect the overall well-being and Job Satisfaction of the IT employees
4. To evaluate the role of welfare measure in improving productivity of the employees

## **Research Methodology**

The data is collected from both primary and secondary source

### **SOURCES OF DATA**

Primary source: This data which is collected personally and is gathered from the structured questionnaire. It can include surveys, interviews, observations, experiments and focus groups.

Secondary Data: the data which is collected are from various secondary sources like textbook websites, journals and articles referred to newspapers etc.

Research design: descriptive design

Sample size: 124

Sample method: convenient sampling (probability sampling)

Tool: structured questionnaire

Analytical tool: SPSS (statistical package from the social sciences)

Applied tested statistics: chi square



## Limitations

- This study has several limitations that must be considered. Firstly, the research is confined to IT employees within organization, which may not fully represent the broader IT industry or other organizational environments.
- The reliance on self-reported data from surveys and interviews may introduce biases and inaccuracies, affecting the reliability of the findings. Additionally, the study does not explore long-term effects or historical context, focusing only on current safety and welfare measures and their immediate impact.
- Productivity assessment are based on self-reports, which may not fully capture actual productivity levels. While the study identifies correlations between safety measures and employee outcomes, it does not establish causality.
- The research also may not reflect variations in safety and welfare practices across different organizations.

## Literature review

1. MATHEW, J GRAWTICH (2006) This critical review has explore the journey creating a healthy workplace, highlighting the essential links between healthy workplace practices, employee well-being and organizational enhancement. The evidence underscores that implementing healthy workplace practice is crucial not only for employee well- being but also for achieving organizational success. By prioritizing and incorporating these practices, organizations can develop a culture of well- being boost employee engagement and achieve business excellence.
2. KENNETH BENSON OWLION, PRISCILLAH OMAGWA(2024) This literature review has highlighted a significant positive relationship between employee welfare programs and staff performance. The analyzed studies consistently demonstrate that organizations which invest in employee welfare see enhanced motivation, productivity job satisfaction and lower turnover rates. These findings emphasize the importance of viewing employee welfare as a strategic investment crucial for improving staff performance, reaching organizational objectives, and fostering a positive work culture. The review advocates for prioritizing employee welfare programs as a core strategy rather than an ancillary benefit. By doing so, organizations can fully leverage their employee potential, achieve business success and maintain a competitive edge.
3. SUBRAMANIA BALA(2022)  
In this study we explored the connection between industrial hazards and safety protocols within industry. our analysis shows a strong link between effective safety measures and a decrease in industrial hazards. Specially, the implementation of safety measures has proven successful in addressing specific hazards leading to positive outcomes, such as fewer injuries or enhanced productivity. These findings highlight the critical role of adopting and maintaining robust safety measures to safeguard the workplace. This research provides valuable insights for policy makers industry leaders and safety practitioners, emphasizing the need for ongoing commitment to safety and proactive hazard management to foster a safer work environment.
4. TAHIRA M PROBST(2013) This research highlights consideration of future safety consequences as an important new factor in predicting employee safety behaviors. The study demonstrates that CFSC significantly influences safety performance, surpassing the impact of traditional factors like safety knowledge and attitudes. Employees who are mindful of the future implication of their actions are more inclined to practice safe behaviors, report near misses and engage in safety programs. These results indicate that fostering a thinking safety perspective can enhance safety practice within organizations. The CFSC scale developed offers a practical instrument for evaluating and improving safety behaviors. By incorporating CFSC in to safety management strategies organizations can build a proactive safety culture, thereby reducing injuries and promoting overall employee well- being.



1. WILLIAM H ROGERS(2000) This review of health- related work outcome measures offer a structured approach to evaluating and enhancing employee health and well- being within occupational environments. The study highlights various robust and credible measures, such as absenteeism, presenteeism, job satisfaction, and quality of life, which are essential for assessing the success of workplace health programs. Implementing these recommended measures can aid organizations in prioritizing employee health, lowering health expenses, and boosting productivity. The result of these review underscores the importance of a comprehensive strategy for measuring health related work outcomes, with significant implications for human resources, occupational health experts, and researchers. Embracing these measures can support a culture of well-being, improve employee health and foster more sustainable work environment.

## CHI SQUARE TEST

### HYPOTHESIS 1

Table 1:

1)Could you kindly indicate your gender?

s.no	Age	No of respondents	Percentage
1	18-25	107	84.9%
2	25-35	15	11.9%
3	35-45	3	2.4%
4	45-55	1	0.8%

Table 4.6

6) How would you rate the effectiveness of the safety measures implemented by IT employees?

s.no	Options	No of respondents	Percentage
1	Highly effective	38	30.2%
2	Moderately effective	85	67.5%
3	Ineffective	3	2.4%

## Crosstabs

Case Processing Summary						
	Cases					
	Valid		Missing		Total	
	N	Percentage	N	Percentage	N	Percentage
1. Could you kindly indicate your gender? * 6. How would you rate the effectiveness of the safety measures implemented by IT employees ?	10	100.0%	0	0.0%	10	100.0%



1. Could you kindly indicate your gender? * 14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in IT?	1	10	0	0.	1	10
	2	0.		0	2	0.
	6	0		%	6	0
		%				%

**1. Could you kindly indicate your gender? \* 6. How would you rate the effectiveness of the safety measures implemented by IT employees ?**

Crosstab						
			6. How would you rate the effectiveness of the safety measures implemented by IT employees ?			Total
			Highly effective	Ineffective	Moderately effective	
1. Could you kindly indicate your gender?	Female	Count	15	0	55	70
		Expected Count	21.1	1.7	47.2	70
		% within 1. Could you kindly indicate your gender?	21.4%	0.0%	78.6%	100%
		% within 6. How would you rate the effectiveness of the safety measures implemented by IT employees ?	39.5%	0.0%	64.7%	55.6%
		% of Total	11.9%	0.0%	43.7%	55.6%



M.pranit h kumar	Count	0	0	1	1
	Expected Count	.3	. 0	.7	1 . 0
	% within 1. Could you kindly indicate your gender?	0.0 %	0 .0 %	100.0 %	1 0 0 .0 %
	% within 6. How would you rate the effectiveness of the safety measures implemented by IT employees ?	0.0 %	0 .0 %	1.2%	0 .8 %
	% of Total	0.0 %	0 .0 %	0.8%	0 .8 %
	Male	Count	23	3	29
	Expected Count	16. 6	1 .3	37.1	5 5 .0
	% within 1. Could you kindly indicate your gender?	41. 8 %	5 .5 %	52.7%	1 0 0 .0 %
	% within 6. How would you rate the effectiveness of the safety measures implemented by IT employees ?	60. 5 %	1 0 .0 %	34.1%	4 3 .7 %
	% of Total	18. 3 %	2 .4 %	23.0%	4 3 .7 %
Total	Count	38	3	85	1 2 6
	Expected Count	38.	3	85.0	1



		0	.		2
			0		6
					.
					0
	% within 1. Could you kindly indicate your gender?	30.2%	2.4%	67.5%	100%
	% within 6. How would you rate the effectiveness of the safety measures implemented by IT employees ?	100.0%	100%	100.0%	100%
	% of Total	30.2%	2.4%	67.5%	100%

Chi-Square Tests			
	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	11.630 <sup>a</sup>	4	.020
Likelihood Ratio	13.024	4	.011
N of Valid Cases	126		

a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .02.

Since the p value (0.011) is less than the significant level(0.05), rejects the null hypothesis(H<sub>0</sub>)

INTERPRETATION: The result suggest that gender has a significant impact on how IT employees rate the effectiveness of safety and welfare measures provided by IT employees.

RESULT: based on the both tests, rejects the null hypothesis H<sub>0</sub>, which means there is a statistically significant association between gender and the rating of safety and welfare measures provided by IT employees.



**1. Could you kindly indicate your gender? \* 14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in cognizant?**

**Crosstab**

		14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in cognizant?					Total
			Not satisfied	Somewhat satisfied	Very satisfied		
1. Could you kindly indicate your gender?	Female	Count	3	3	38	26	70
		Expected Count	2.2	3.9	36.7	27.2	70.0
		% within 1. Could you kindly indicate your gender?	4.3%	4.3%	54.3%	37.1%	100.0%
		% within 14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in cognizant?	75.0%	42.9%	57.6%	53.1%	55.6%
		% of Total	2.4%	2.4%	30.2%	20.6%	55.6%
	M.p rani th ku mar	Count	0	0	0	1	1
		Expected Count	.0	.1	.5	.4	1.0
		% within 1. Could you kindly indicate your gender?	0.0%	0.0%	0.0%	100.0%	100.0%
		% within 14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in	0.0%	0.0%	0.0%	2.0%	0.8%



		cognizant?					
		% of Total	0.0%	0.0%	0.0%	0.8%	0.8%
Male		Count	1	4	28	22	55
		Expected Count	1.7	3.1	28.8	21.4	55.0
		% within 1. Could you kindly indicate your gender?	1.8%	7.3%	50.9%	40.0%	100.0%
		% within 14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in cognizant?	25.0%	57.1%	42.4%	44.9%	43.7%
		% of Total	0.8%	3.2%	22.2%	17.5%	43.7%
	Total		Count	4	7	66	49
		Expected Count	4.0	7.0	66.0	49.0	126.0
		% within 1. Could you kindly indicate your gender?	3.2%	5.6%	52.4%	38.9%	100.0%
		% within 14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in cognizant?	100.0%	100.0%	100.0%	100.0%	100.0%
		% of Total	3.2%	5.6%	52.4%	38.9%	100.0%



Chi-Square Tests			
	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	2.801 <sup>a</sup>	6	.833
Likelihood Ratio	3.142	6	.791
N of Valid Cases	126		
a. 8 cells (66.7%) have expected count less than 5. The minimum expected count is .03.			

Since the p-value (0.833) is greater than the significance level (usually 0.05), fail to reject the null hypothesis(H0)

Result:: based on both tests, fails to reject null hypothesis H0, which means there is no significant association between gender and satisfaction with cleanliness and hygiene standards at the workplace.

Interpretation: the results suggest that gender does not have a significant impact on IT employees' satisfaction with cleanliness and hygiene standards.

The association is not statistically significant, with p-values greater than 0.05.

### 3 Crosstabs

Case Processing Summary						
	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
3. What is your educational background? * 6. How would you rate the effectiveness of the safety measures implemented by IT employees ?	1	100%	0	0%	1	100%
3. What is your educational background? * 14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in cognizant?	1	100%	0	0%	1	100%



**3. What is your educational background? \* 6. How would you rate the effectiveness of the safety measures implemented by IT employees ?**

Crosstab						
		6. How would you rate the effectiveness of the safety measures implemented by IT employees ?				
			Highly effective	Mod erately effective	Total	
3. What is your educational background ?	Bachelor's degree	Count	22	3	45	70
		Expected Count	21.1	1.7	47.2	70.0
		% within 3. What is your educational background?	31.4%	4.3%	64.3%	100%
		% within 6. How would you rate the effectiveness of the safety measures implemented by IT employees ?	57.9%	10.0%	52.9%	55.6%
		% of Total	17.5%	2.4%	35.7%	55.6%
	Doctorate or higher	Count	1	0	3	4
		Expected Count	1.2	.1	2.7	4.0
		% within 3. What is your educational background?	25.0%	0.0%	75.0%	100%
		% within 6. How would you rate the effectiveness of the safety measures implemented by IT employees ?	2.6%	0.0%	3.5%	3.2%



		% of Total	0.8 %	0 . 0 %	2.4%	3. 2 %
Master's degree		Count	15	0	37	52
		Expected Count	15. 7	1 . 2	35.1	52 .0
		% within 3. What is your educational background?	28. 8 %	0 . 0 %	71.2 %	10 0. 0 %
		% within 6. How would you rate the effectiveness of the safety measures implemented by IT employees ?	39. 5 %	0 . 0 %	43.5 %	41 .3 %
		% of Total	11. 9 %	0 . 0 %	29.4 %	41 .3 %
Total		Count	38	3	85	12 6
		Expected Count	38. 0	3 . 0	85.0	12 6. 0
		% within 3. What is your educational background?	30. 2 %	2 . 4 %	67.5 %	10 0. 0 %
		% within 6. How would you rate the effectiveness of the safety measures implemented by IT employees ?	10 0.0 %	1 0 . 0 %	100. 0%	10 0. 0 %
		% of Total	30. 2 %	2 . 4 %	67.5 %	10 0. 0 %



Chi-Square Tests			
	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	2.746 <sup>a</sup>	4	.601
Likelihood Ratio	3.873	4	.423
N of Valid Cases	126		

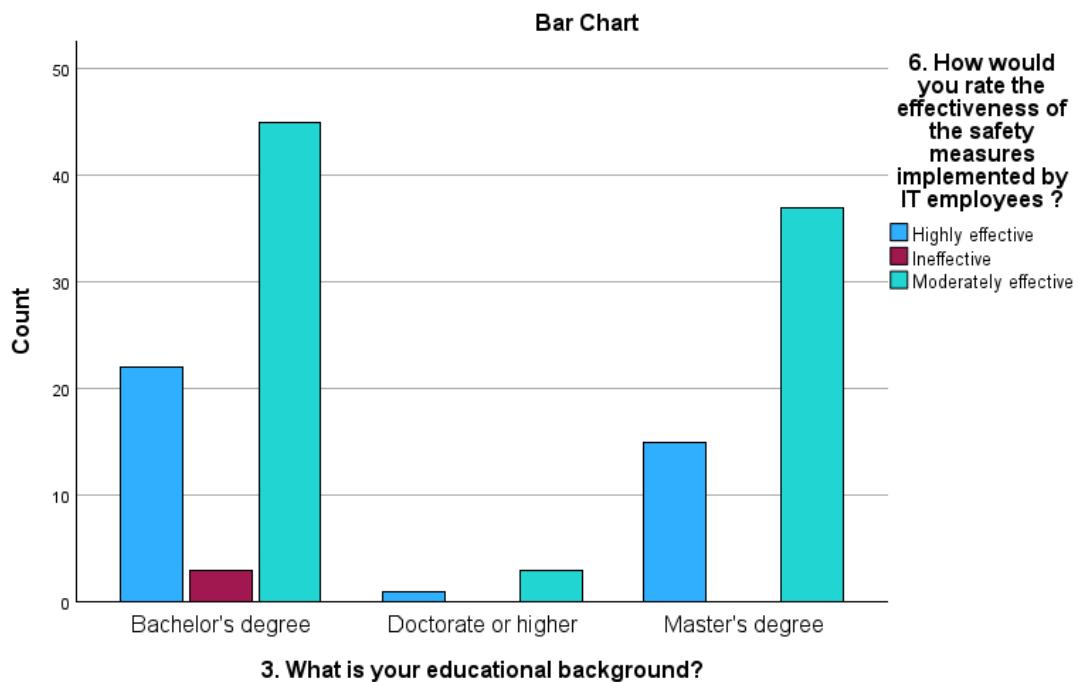
a. 5 cells (55.6%) have expected count less than 5. The minimum expected count is .10.

Since the p-value (0.423) is greater than the significant level (0.05), fail to reject the null hypothesis H0.

Interpretation: the result suggests that educational qualification does not have a significant impact on how IT employees rate the effectiveness of safety measures.

The association is not statistically significant, with p-values greater than 0.05.

Result: based on both tests, fails to reject the null hypothesis H0, which means there is no statistically significant association between educational qualification and rating of safety measures effectiveness.





### 3. What is your educational background? \* 14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in cognizant?

Crosstab							
			14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in cognizant?				Total
				Not satisfied	Some what satisfied	Very satisfied	
3. What is your educational background?	Bachelor's degree	Count	2	2	38	28	70
		Expected Count	2.2	3.9	36.7	27.2	70.0
		% within 3. What is your educational background?	2.9%		54.3%	40.0%	100.0%
		% within 14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in cognizant?	50.0%	28.6%	57.6%	57.1%	55.6%
		% of Total	1.6%	1.6%	30.2%	22.2%	55.6%
Doctorate or higher	Doctorate or higher	Count	1	0	0	3	4
		Expected Count	.1	.2	2.1	1.6	4.0
		% within 3. What is your educational background?	25.0%	0.0%	0.0%	75.0%	100.0%
		% within 14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in cognizant?	25.0%	0.0%	0.0%	6.1%	3.2%
		% of Total	0.8%	0.0%	0.0%	2.4%	3.2%
Master	Master	Count	1	5	28	18	52
		Expected Count	1.1	2.9	27.2	20.2	52.0



s t e r' s d e g r e e		7				
	% within 3. What is your educational background?	1.9%	9.6%	53.8%	34.6%	100.0%
	% within 14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in cognizant?	25.0%	71.4%	42.4%	36.7%	41.3%
	% of Total	0.8%	4.0%	22.2%	14.3%	41.3%
Total	Count	4	7	66	49	126
	Expected Count	4.0	7.0	66.0	49.0	126.0
	% within 3. What is your educational background?	3.2%	5.6%	52.4%	38.9%	100.0%
	% within 14. Are you satisfied with the cleanliness and hygiene standards maintained at your workplace in cognizant?	100.0%	100.0%	100.0%	100.0%	100.0%
	% of Total	3.2%	5.6%	52.4%	38.9%	100.0%

Chi-Square Tests			
	Value	df	Asymptotic Significance (2-sided)
Pearson Chi-Square	12.736 <sup>a</sup>	6	.047
Likelihood Ratio	11.116	6	.085
N of Valid Cases	126		

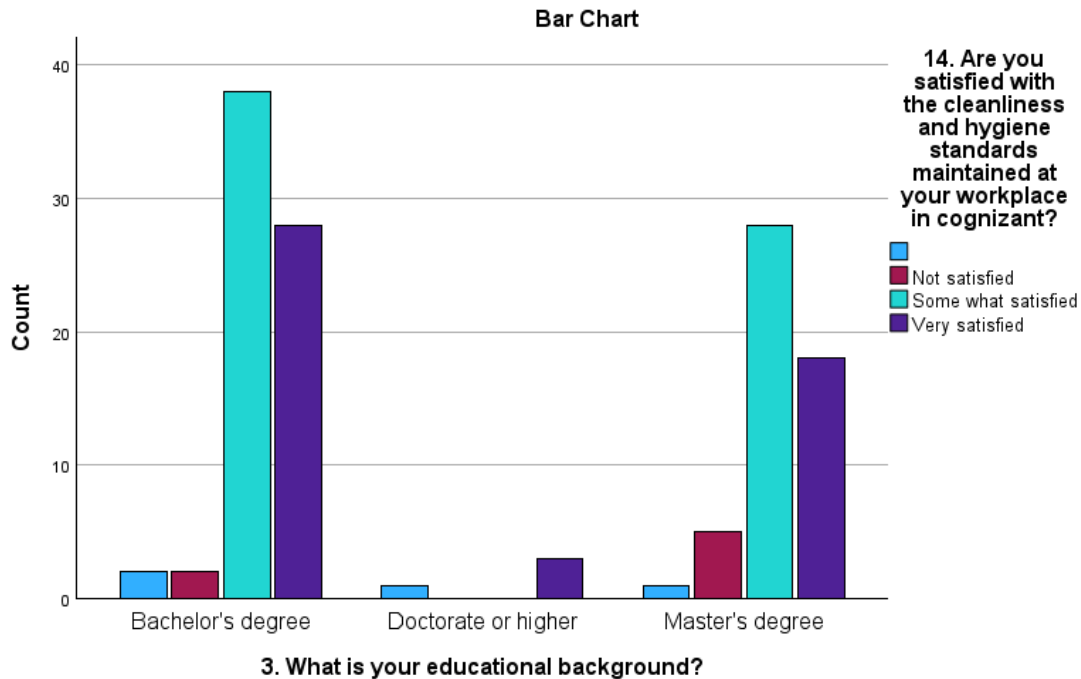
a. 8 cells (66.7%) have expected count less than 5. The minimum expected count is .13.



H0 ( Null hypothesis): there is no significant association between educational qualification and satisfaction with cleanliness and hygiene standards

H1( Alternative hypothesis): there is a significant association between educational qualification and satisfaction with cleanliness and hygiene standards

Interpretation: the result suggests that educational qualification has a significant impact on IT employees satisfaction with cleanliness and hygiene standards.



### **FINDINGS:**

1. In these I have observed that the age between 18-25 are the highest respondents working freshly in the IT.
2. 50.8% of the respondents may have some knowledge on aware of the safety and welfare measures provided to IT employees.
3. 67.5% of the respondents may have rate the moderately effective on the safety measures provided to IT employees.
4. 54% of the respondents may have some extent on the IT prioritizes
5. 64.3% may some what satisfied of their safety training provided to the IT employees.
6. 57.1% may occasionally they may en-counterred the safety and concerns at their workplace.
7. 59.5% may have aware on some resources available at their workplace
8. 52.4% sometimes they may feel comfortable by reporting safety concerns.
9. 66.7% they may rate the good on the overall safety culture in their workplace.
10. 66.7% may occasionally utilized the welfare measures provide by the IT company.
11. 54.1% may have some what satisfied with the cleanliness and hygiene standards maintained at their workplace.
12. 60.3% may have some extent on believing that they have a positive impact on their work-life balance.
13. 62.6% may occasionally they may conduct the safety audits and inspections.
14. 59.8% may have some knowledge with the emergency evacuation procedures.
15. 59.3% may have some extent on believing that IT provides adequate training on ergonomics and workplace posture.
16. 61.8% may have moderately accessible of safety equipment and resources at their workplace.
17. 64.2% may have occasionally witnessed safety violations or non-compliance with safety protocols at their workplace.
18. 60.5% may moderately prompt in addressing the safety concerns or incidents.



19. 64.8% may have some knowledge on the IT may takes to ensure the physical and mental well-being of employees.
20. 57.3% may have some extent on the encourages a culture of open communication regarding safety and welfare matters.
21. 59.5% may have occasionally conduct safety drills and simulations.
22. 59.5% may have some what satisfied with the lighting conditions at their workplace.

### **SUGGESTIONS:**

1. Comprehensive mental health programs:  
Develop and implement comprehensive mental health initiatives, including access to counseling services, mental health days, and stress management workshops.
2. Improved ergonomics workstations:  
Regularly assess and upgrade workstation ergonomics to prevent issues and enhance comfort.  
Provide ergonomic equipment such as adjustable chairs and standing desks to improve employee well-being and productivity.
3. Flexible work arrangements:  
Offer flexible working hours and remote work options to help employees balance work and personal life effectively  
Establish clear policies for remote work to ensure consistency and support across the organization.
4. Comprehensive cybersquatting training:  
Conduct regular training sessions on cybersquatting best practices to equip employees with knowledge to mitigate potential threats.
5. Burnout prevention strategies:  
Develop programs focused on preventing burnout, such as workload management technique, regular breaks, and opportunities for professional growth.
6. Health and wellness programs:  
Introduce wellness initiatives that promote physical health, including gym membership, fitness challenges, and healthy eating workshops.  
Provide resources and support for maintaining a healthy work-life balance, including time management training and relaxation technique.
7. Crisis management and emergency preparedness
8. Inclusive and diverse workplace
9. Career development and growth opportunities
10. Effective employee feedback mechanisms.

### **CONCLUSION:**

This study underscores the critical importance of comprehensive safety and welfare measures for IT employees. The research indicates that although some organizations are making strides in prioritizing employee well-being, significant gaps remain, particularly in areas such as ergonomics support, mental health resources, and work-life balance initiatives.

Implementing robust safety and welfare programs can enhance productivity, boost job satisfaction, and reduce employee turnover. Organizations must recognize the value of investing in their workforce's well-being and proactively address the evolving challenges in the IT industry.

Future research should focus on the effects of remote work on IT employee safety and welfare, and develop tailored interventions to meet specific industry needs. By prioritizing employee safety and welfare, organizations can create a positive work environment drive business success, and enhance the overall well-being of their IT workforce.



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