v1: 3 June 2024

Peer-approved: 3 June 2024

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Qeios, Vol. 6 (2024) ISSN: 2632-3834

Analysis of Factors Influencing Health and Safety Programmes in Selected Electricity Distribution Companies

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The study determined the factors influencing health and safety programmes in the selected electricity distribution companies in Southwest, Nigeria. The study used a descriptive survey research design. The study used primary sources of data, and the data were gathered through the administration of a questionnaire. The population for the study comprised 11,621 workers of electricity companies in Southwest, Nigeria. A sample size of 400 was determined through the use of the Taro Yamane formula, and 385 were valid for usage. The sample was selected using a two-stage sampling technique. At the first stage, a purposive sampling technique was used to select employees who have worked at least five years in the company; at the second stage, a stratified random sampling technique was used to select employees using a senior, middle, and junior categorisation of workers for stratification. The results also revealed that the human factors (t =5.836, p < 0.05), management factors (t = 3.898, p < 0.05), organisational factors (t = 2.120, p < 0.05), and environmental factors (t = 2.102, p < 0.05) were the factors influencing occupational health and safety practices in the study area. The study concluded that occupational health and safety practices have the potency to reduce the rate at which accidents and injuries occur among the workers and thereby improve employees' performance in Southwest, Nigeria. The study recommended that the factors that could reduce the potency of the health and safety programme should be controlled and prevented.

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1. Introduction

The hum of electricity is the lifeblood of progress, powering homes, businesses, and the very dreams of a nation. Yet, the energy that illuminates our lives can also be a hidden danger (Afolabi, 2020). This study shines a light on the factors influencing health and safety (H&S) programmes within selected electricity distribution companies (DISCOs) in Nigeria. Nigeria's electricity sector is undergoing a rapid transformation. The web of distribution lines is expanding, reaching more corners of the nation and fueling its development. However, this growth comes with a weighty responsibility – ensuring the safety of the workforce that keeps the current flowing (Ali, Shafiq & Jabbar 2018: Adewumi & Oluremi, 2021). While government regulations, established by agencies like NAPSERA, provide a framework, there's a need to delve deeper and assess how effectively these regulations are being implemented within individual DISCOs.

Learning from the best practices employed around the world is crucial. But simply transplanting these practices would not suffice. The Nigerian context presents unique challenges that require tailored solutions (Karapetrou & Kontogiannidis, 2020). This study aims to identify areas for improvement within the H&S programmes of Nigerian DISCOs, with a specific focus on preventing occupational health hazards and accidents commonly encountered in the electricity sector. The benefits of a robust H&S program are multifaceted. A healthy workforce, protected from work-related injuries and illnesses, translates to increased productivity and reduced absenteeism for DISCOs (Adewumi & Oluremi, 2021; (Kaynak, et al., 2016; Dunmade, et al., 2019; Amedome, 2017)). But the positive impact extends beyond the company walls. Effective H&S programmes safeguard public safety by ensuring the safe operation and maintenance of electricity distribution networks, minimizing the risk of electrical fires and accidents that could devastate communities.

A commitment to H&S goes beyond mere compliance; it's the cornerstone of a DISCO's reputation (Hassan & Abd Halim 2020). By prioritizing safety, DISCOs foster public trust and contribute to the long-term sustainability of the electricity sector. This, in turn, ensures a safe and healthy work environment for employees, a crucial element for a bright and illuminated future for Nigeria's electricity sector. This study seeks to illuminate the path towards improved H&S practices within Nigerian DISCOs. By identifying key factors influencing these programmes, we can create a framework for better safety measures, protecting employees and the public (Lingard & Rowlinson, 2018). Ultimately, this will empower the electricity sector to illuminate Nigeria's future, not just with light, but with a commitment to occupational health and safety that burns brightly.

1.1. Objectives of the Study

- i. Identify the factors influencing health and safety programmes in the selected electricity distribution companies in Southwest, Nigeria;
- ii. Investigate the effect of influencing factors on health and safety programmes in the selected electricity distribution companies in Southwest, Nigeria.

2. Health and Safety Programme

A company's health and safety programme entails activities taken to reduce or eliminate hazardous working conditions and unsafe behaviours. Reducing dangerous conditions is always an employer's starting point for defense in accident prevention (Ladewski & Al-Bayati, 2019). Also, businesses must give extra attention to workers who are at risk due to linguistic problems, lack of awareness, incorrectly fitted PPE, or physical or mental limitations in order to establish safe and healthy workplaces (Budhathoki, et al., 2014). Every employee of a company, including those employed on a contract basis, is responsible for ensuring a safe and healthy workplace and minimizing any risks to health and safety that may exist (Mazzetti, et al., 2020). Programmes for OHS are created to abate the effects of disease and disaster that can occur at the workplace (Lee, 2018; Fruhen, et. al., 2019).

However, Kim and Scott (2019) contend that creating a safe and healthy workplace is necessary for improved performance to exist. Organisations with the best safety records have comprehensive, well-thought-out health and safety policies. Safety concerns should start at the top of the organisation, with the manager, followed by the supervisor. Fewer employees will suffer short- or long-term negative consequences from working for a firm that implements strong safety and health policies (Jonathan & Mbogo, 2016). Organisations rely on employees as collaborators and community members, according to Borowski, et al., (2020); Feng, et al., (2011); and Hu, et al., (2020). The creation of a safe and healthy work environment and the removal of all risks from an organisation, as well as individuals employed there temporarily.

Organisations become significantly more effective by lowering the incidence and severity of occupational illnesses, accidents, workplace violence, and stressrelated illnesses, as well as by raising the standard of living for their workers (Ajmal, et al., 2020). Fines for non-compliance, health insurance premiums, and payments for unproductive labor are just a few of the expenditures that organisations worry about minimizing while investing in health and safety initiatives (Classen, et al., 2020; Occupational Safety and Health Act (OSHA, 2004). They gain from having healthy workers, as some companies have been willing to invest in creating wellness programs and facilities for this aim (Ajmal, et al., 2021). Workplace safety and health can be improved through a variety of approaches. Programs created to lessen illnesses, accidents, and injuries, stress management skills, and the general wellness of employees are among the most popular (Mazzetti, et al., 2020), while some of the therapies aim at altering employees' lifestyles and extracurricular behaviors. All of these measures can lower the high expenses linked to employee accidents, illnesses, and deaths (Fruhen, et al., 2019).

2.1. Overview of factors influencing occupational health and safety practices

2.1.1. Organisational factors

Organisational factors include anything within the employment context that may have a direct or indirect effect on the activities of the firm at a particular point in time. These organisational factors may either affect the employee negatively or positively, depending on the influence they have on the activities (Brough, 2004). The literature points out some common organisational factors found among employees, such as safety orientation for new employees, provision of safety and health policies, safety communication, education and training on personal protective equipment, and collaboration among management and employee representatives, which may lead to higher job satisfaction (Eskandari, 2017; Purba & Demou, 2019; Harrison, 2019). The dynamism of an organisational factor determines the way and manner in which they react to internal and external forces. Organisations are easier to comprehend if they are analysed as a dynamic object; managers will then have enough strategies to respond to controversial requirements. The dynamic nature of organisations provides an explanation for the fact that pursuing safety is not a one-off duty. It is not sufficient that crucial work processes are carried out correctly once or twice; they have to be performed with the same quality day in and day out, year by year, irrespective of the fact that people exit and new recruits are being onboarded to the organisation (Baumont, 2000).

2.1.2. Management factors

Negligence that results in workplace accidents and injuries could not only be traced to employee carelessness but also to the top management that shuns a crucial role in preventing workplace accidents (Al-Refaie, 2013). There is a need for management to give priority to the implementation and enforcement of occupational health and safety practices, which could be achieved by a number of ways, including but not limited to taking defensive measures and releasing information that is helpful to employees through training, and directing them to carry out their jobs safely. Employees should be safety-conscious and care enough to perform their obligations regarding work safety while working (Neal, et al., 2000). Therefore, to achieve higher safety in an organisation, both management and workers must implement and enforce the safety practices available to them.

2.1.3. Environmental factors

Numerous environmental factors can affect the health and well-being of employees. These include air quality, noise, lighting, among others (Tulchinsky & Varavikova, 2014). When organizing a workspace, the work to be performed there must be taken into account. Ensure that all traffic routes are easy to navigate and marked as needed, and that staff have adequate and safe operating space. It is assumed that the size of the workroom, which is used for most of the working day, should be spacious enough to have sufficient airspace when working (Leesman & Berrone, 2014; Seppanen & Fazio, 2012).

2.1.4. Human factors

Human factors in safety are concerned with all those factors that influence people and their actions towards safety-critical situations. If any employer thinks that safety is expensive, he should understand that the cost of having an accident is not palatable (Vogt, et al., (2010). Managing and preventing human failures cannot be overemphasized, and it is not without cost implications which, if the management does not proactively handle, could halt the business going concern. Excellent technology combined with the best work strategy can help businesses achieve high productivity and service quality while enforcing occupational health and safety practices to achieve the set goals. The best work arrangement is based on having the best brain with the needed skills, and job descriptions that are suitable for individuals' abilities. Notably, the influence of both psychological and organisational factors could affect human health and safety; it should be noted that in the long run, they have an effect on efficacy and productivity. Since individuals have a wide range of abilities and constraints, the human factors approach should focus on how to make the best use of these capabilities by organising responsibilities and PPE that are fit for people (Unal, et al., 2018). This not only improves the health and safety of the employees but also ensures a better, more effective, and reputable organisation.

2.2. Theoretical Review

2.2.1. Human Factors Theory

The purpose of Ferrell's study of the human factors theory is to improve performance, increase safety, and increase user happiness by focusing on how people interact with tools, systems, and processes within organisations. Thus, the theory of human factors is advantageous to employees. Human factors theory is founded on the idea that mistakes made by humans lead to accidents. Overload, unsuitable activity, and inappropriate responses have all been highlighted as the three human elements that can cause human errors. When a person is required to complete an excessive number of duties, it is said that overload has happened. Whether or not this person is qualified, the overburdened condition presents the potential for a mishap. When there are obvious physical constraints, the overload may be physical or psychological, causing stress (for instance, a weakling asked to lift a heavy load). When a person is not properly trained to carry out his tasks, it is said that an inappropriate behavior has taken place. This can be the result of inadequately supervised training and incorrect assessments of job dangers. This is one of the reasons for making sure that every learner completes a real task while receiving onthe-job training, always under close observation. Finally, qualified people intentionally breaking a procedure for high productivity or failing to address the issue after it is identified both constitute unacceptable responses. This could also entail disobeving workplace safety regulations and responding inappropriately to hazards that have been discovered (such as failure to wear personal protective clothing).

The Human Factors Theory's central tenet, that most accidents are caused by human mistake, is supported by empirical data. Approximately 72% to 91% of all industrial accidents are thought to be caused by human error (Health & Safety Executive, 2008; Kirschenbaum, et al., 2000). According to Hamalainen, (2009), there were about 16,500 fatal accidents and nearly 2 million disabling occupational accidents in American industry. Additionally, it has been widely asserted that only about 5% of motor vehicle accidents are the consequences of mechanical breakdowns, with 95% being related to the inadequacies of the man operating the machine. As a result, it is acknowledged that employees, supervisors, and senior management have all made risky decisions that have contributed to the unsafe environments that can lead to accidents. For instance, unsafe conditions arise when people are unaware that they exist and don't act to fix them when they are aware.

2.2.2. Goal-Freedom Alertness (GFA) Theory

Goal-Freedom Alertness (GFA) Theory was introduced by Kerr (1950), and he firmly asserted that workplace safety improves performance, organisations, and outcomes (Oppong, 2011). According to the GFA theory, unsafe workplace behavior by employees leads to accidents. By fostering a supportive company culture and psychological climate, this behaviour can be corrected by increasing worker awareness. Mishaps can be decreased, for instance, by making sure that employees are punished to maintain decent housekeeping. The GFA theory implies that psychological judgments of workplace circumstances, such as culture, climate, and justice, are important in explaining why accidents happen. An effective strategy to convey to employees that a company values safety and will stop at nothing to keep it is by establishing and maintaining a positive safety climate and culture in the workplace. In a similar vein, organisational justice or perceived fairness on the side of employees regarding how management manages or enforces its safety regulatory regime is also evidence that no one is exempt from punishment for violations.

Employee work-related behaviour and performance have been demonstrated to be influenced by these psychological factors. For instance, there is a consistent relationship between psychological climate and many metrics of organisational effectiveness and employee outcomes (Grawitch, et al., 2007; Petersen, 1996; Paul & Anantharaman, 2003; Pfeiffer, 1998; Von Glinow, et al., 2002). In the area of occupational safety and health, a study showed in a meta-analytic study that the safety climate has an impact on safety performance, safety compliance, and actual accidents. However, it was found that the safety climate had a greater impact on safety performance than on safety compliance. The same study also showed that safety performance had a greater influence on accident occurrence than safety compliance. These overwhelming empirical results have made the GFA hypothesis a key participant in the field of accident causation theories.

For the purpose of this study, goal-freedom-alertness is used as an anchor theory. The justification for the usage of this theory is that it incorporates the main variables considered in the study (occupational health, safety practices, and employees' performance).

2.3. Empirical Review

Othman et al., (2020) carried out research on the critical success factors influencing construction safety programs in Malaysia as one of the developing countries. A semi-structured interview was conducted to have in-depth insight and understanding of those factors that have the potential to influence OHS in construction projects. Sixteen respondents were interviewed by experts and professionals in Iraqi construction companies. The result showed the importance of factors like management commitment, safety training, the enforcement of safety rules and regulations, and stakeholders' collaboration. The level of technology is the new factor that was revealed by respondents. The study recommended that management should be more committed, engage employees in relevant training, and ensure the collaboration of stakeholders to have enforceable safety rules and regulations.

Nordlof et al., (2017) conducted a cross-sectional study of factors influencing occupational health and safety management practices in Sweden. The primary data were collected through a well-structured questionnaire. Manufacturing companies with at least 10 employees were selected for the study, and ordinal regression analysis was statistically used to generate a generalized estimating equation. This study considered various elements that may influence occupational health and safety management (OHSM) practices in manufacturing companies, which may include company size. It was found to be relatively connected with the conclusion; large-sized companies tend to appreciate OHSM practices. The converse was also found to be true, that companies that are smaller in size tend to neglect OHSM practices. Moreover, the result has important dependence on the safety culture in the selected companies; the more positive the safety culture, the more the OHSM practices. From another perspective, if there is a negligent attitude toward the safety culture in the company, there is a tendency that the OHSM practices will be worse.

Oladejo (2020) investigated the factors responsible for the non-implementation of H&S management practices by contractors in the Nigerian construction industry. The objectives are to appraise the condition of H&S, examine H&S management models in order to identify the key elements and procedures of H&S management, analvse H&S management implementation in construction companies, develop a conceptual framework for establishing elements distressing the implementation of H&S management, improve the conceptual framework, and develop an instrument to collect and analyse data, discuss and compare the extant literature with the empirical research findings of the present study, and to draw conclusions from the findings of the study and propose implications for H&S

management in Nigeria. A descriptive survey research instrument was developed, and copies of the questionnaire were used to gather the needed data. The total population included Directors or top management in construction industries. The 350 copies of the questionnaire were administered by the researcher to the top management and relevant professionals in construction industries. The findings revealed that H&S management practices are important issues in the Nigerian construction industry; however, the rate of accidents is very high. In addition, key elements that influence occupational health and safety management practices among construction firms in Nigeria include the sizes and ages of construction companies. The study recommended that a public policy toward occupational health and safety management practices should be provided by policymakers to restrain the rate at which workers in the construction industry in Nigeria experience accidents and injuries.

3. Methodology

The study used a descriptive survey research design. The study used primary sources of data, and the data were gathered through the administration of a questionnaire. The population for the study comprised 11,621 workers of electricity companies in Southwest Nigeria. A sample size of 400 was determined through the use of the Taro Yamane formula. The sample was selected using a two-stage sampling technique. At the first stage, a purposive sampling technique was used in selecting employees who have used at least five years in the company; at the second stage, a stratified random sampling technique was used in selecting employees using a senior, middle, and junior categorisation of workers for stratification. Two experienced research assistants were used in gathering data for the variables studied. Out of the 400 copies administered, 385 were useful for the analysis done with the descriptive test and inferential statistics.

4. Factors that influence health and safety programmes in the selected electricity distribution companies in Nigeria

4.1. Organisational factors

Table 4.1 indicated that the selected companies' new workers received safety orientation, and safety and health policies are disclosed by the company. It was strongly agreed that employees received training on how to use Protective Equipment (PPE), and they were likewise trained to recognise hazards at work. It was also indicated that the training given has changed the behavior of concerned employees, and they have received encouragement to report workplace accidents. The table also indicated that there was an existence of an official safety and health reporting system. Moreover, the table revealed that hazard assessment was done by the management and employees' representatives. There is an indication of a penalty for any non-compliant official (Field survey, 2022). This study was similar to prior studies on factors influencing health and safety programmes that showed the efforts of organisations to perform their roles in putting safety measures in place in order to reduce accidents and injuries (Eskandari, 2017; Purba & Demou, 2019; Harrison, 2019).

Statement	Strongly Agree 5 Freq/%	Agree 4 Freq/%	Undecided 3 Freq/%	Disagree 2 Freq/%	Strongly Disagree 1 Freq/%	Total	Mean	Standard Deviation
Every new worker receives safety orientation and safety.	164 (42.6)	87 (22.6)	116 (30.1)	14 (3.6)	4 (1.0)	385 (100)	4.02	0.984
All safety and health policies are disclosed by the company.	285 (74.0)	86 (22.3)	9 (2.3)	5 (1.3)	-	385 (100)	4.69	0.582
Employees received training on how to use personal protective equipment	200 (51.9)	105 (27.3)	62 (16.1)	14 (3.6)	4 (1.0)	385 (100)	4.25	0.926
Employees are trained to recognize hazard at work	180 (46.8)	160 (41.6)	36 (9.4)	9 (2.3)	-	385 (100)	4.33	0.741
Employees received first aid training	170 (44.2)	108 (28.1)	68 (17.7)	34 (8.8)	5 (1.3)	385 (100)	4.05	1.043
Training received changes my behaviour about safety and health issues	261 (67.8)	115 (29.9)	4 (1.0)	5 (1.3)	_	385 (100)	4.64	0.574
Employees are encouraged by their employer to report workplace accident.	267 (69.4)	109 (28.3)	-	-	9 (2.3)	385 (100)	4.62	0.719
We have an official safety and health reporting system.	254 (66.0)	116 (30.1)	10 (2.6)	5 (1.3)	_	385 (100)	4.61	0.608
The management and employee representative work together to undertake the hazard assessment.	183 (47.5)	138 (35.8)	52 (13.5)	8 (2.1)	4 (1.0)	385 (100)	4.27	0.847
Regular health and safety standards assessment are conducted by the company	194 (50.4)	133 (34.5)	53 (13.8)	5 (1.3)	-	385 (100)	4.34	0.761
Inspector imposes penalty when the employer is not complying	132 (34.3)	177 (46.0)	62 (16.1)	14 (3.6)	-	385 (100)	4.11	0.799
Grand Mean							44.19	

Table 4.1. Organisational factors influencing health and safety programme

4.2. Environmental factors influencing health and safety programme

Table 4.2 indicated that the employees of the selected companies are satisfied with the health and safety practices implemented, and also pointed out that management gave a prompt response to safety issues. The table also revealed that employees are satisfied with the level of hygiene, and that chemical and hazardous materials are clearly identified and housed in a safe room. There was an indication from the table that a comfortable working environment improves the performance of the workers, and they often received refresher training on the health and safety programme (Field survey, 2022). This study was similar to a prior study on factors influencing health and safety programmes that showed that numerous environmental factors can affect the health and wellbeing of employees. These include air quality, noise, lighting, among others (Tulchinsky & Varavikova, 2014).

Statement	Strongly Agree 5 Freq/%	Agree 4 Freq/%	Undecided 3 Freq/%	Disagree 2 Freq/%	Strongly Disagree 1 Freq/%	Total Freq/%	Mean	Standard Deviation
I am satisfied with the health and safety practices implemented in my workplace	133 (34.5)	213 (55.3)	13 (3.4)	18 (4.7)	8 (2.1)	385 (100)	4.16	0.855
Management gives a prompt response to safety issues	133 (34.5)	213 (55.3)	29 (7.5)	10 (2.6)	-	385 (100)	4.22	0.692
I am satisfied with the level of hygiene at my workplace	121 (31.4)	222 (57.7)	21 (5.5)	10 (2.6)	11 (2.9)	385 (100)	4.12	0.847
That chemical and hazard material are clearly identified and housed in a safe room	208 (54.0)	146 (37.9)	18 (4.7)	9 (2.3)	4 (1.0)	385 (100)	4.42	0.776
Comfortable working environment improves performance	145 (37.7)	179 (46.5)	52 (13.5)	5 (1.3)	4 (1.0)	385 (100)	4.18	0.790
We often receive refresher training on health and safety programmes	143 (37.1)	160 (41.6)	25 (6.5)	57 (14.8)	-	385 (100)	4.01	1.015
Grand Mean						•	21.77	

Table 4.2. Environmental factors influencing health and safety programmes

Source: Field survey, (2022)

4.3. Management factors influencing health and safety programmes

Table 4.3 indicated that management viewed health and safety programmes as important, and management made sufficient provision for resources to approve health and safety programmes. There was an agreement that enforcement of health and safety programmes was a management priority, and that the implementation of strategy on health and safety programmes was developed by top management. The table revealed that the usage of health and safety posters is common, and that management appointed health and safety professionals. It was also agreed that top management provides a first aid box to attend to accidents and injuries (Field survey, 2022). This study was similar to a prior study on factors influencing health and safety programmes that showed that negligence that results in workplace accidents and injuries could not only be traced to the employee's carelessness but also to the top management that shunned a crucial role in preventing workplace accidents (Al-Refaie, 2013).

Statement	Strongly Agree 5 Freq/%	Agree 4 Freq/%	Undecided 3 Freq/%	Disagree 2 Freq/%	Strongly Disagree 1 Freq/%	Total	Mean	Standard Deviation
Mgt sees health and safety programme as important	161 (41.8)	82 (21.3)	138 (35.8)	-	4 (1.0)	385 (100)	4.03	0.934
Mgt makes sufficient provision for resources to adopt health and safety programme	155 (40.3)	143 (37.1)	20 (5.2)	67 (17.4)	-	385 (100)	4.00	1.074
Enforcement of health and safety programme is mgt priority	147 (38.2)	150 (39.0)	74 (19.2)	10 (2.6)	4 (1.0)	385 (100)	4.11	0.873
Implementation strategy on health and safety programme was developed by top mgt	134 (34.8)	108 (28.1)	124 (32.2)	15 (3.9)	4 (1.0)	385 (100)	3.92	0.957
Usage of health and safety posters are common	174 (45.2)	143 (37.1)	50 (13.0)	10 (2.6)	8 (2.1)	385 (100)	4.21	0.912
Mgt appoints health and safety professionals	204 (53.0)	154 (40.0)	13 (3.4)	10 (2.6)	4 (1.0)	385 (100)	4.41	0.769
Top mgt provides first aid box	259 (67.3)	91 (23.6)	17 (4.4)	10 (2.6)	8 (2.1)	385 (100)	4.51	0.863
Grand Mean							25.32	

Table 4.3. Management factors influencing health and safety programme

Source: Field survey, (2022)

4.4. Human Factors Influencing health and safety programme

Table 4.4 indicated that workers' non-compliance influences the health and safety programme, and that there is low commitment from top management. It also revealed that there is negligence on the part of the employees toward the health and safety programme, and that human failures influenced employees' attitude towards the health and safety programme (Field survey, 2022). This study corroborated the previous study on factors influencing health and safety programme that showed that the human factors approach should focus on how to make the best use of these capabilities by organising responsibilities and personal protective equipment that are fit for the task (<u>Unal</u>, et al., 2018).

Statement	Strongly Agree 5 Freq/%	Agree 4 Freq/%	Undecided 3 Freq/%	Disagree 2 Freq/%	Strongly Disagree 1 Freq/%	Total	Mean	Standard Deviation
Workers' non compliance influence the health and safety programme	9 (2.3)	66 (17.1)	21 (5.5)	122 (31.7)	167 (43.4)	385 (100)	2.03	1.178
There is low commitment from top mgt	9 (2.3)	31 (8.1)	29 (7.5)	176 (45.7)	140 (36.4)	385 (100)	1.94	0.985
There is negligence on the part of the employees toward health and safety programme	9 (2.3)	43 (11.2)	33 (8.6)	80 (20.8)	220 (57.1)	385 (100)	1.81	1.132
Human failures influence employees attitude towards health and safety programme	4 (1.0)	40 (10.4)	49 (12.7)	107 (27.8)	185 (48.1)	385 (100)	1.89	1.052
Grand Mean							6.25	

Table 4.4. Human factors influencing health and safety programme

Source: Field survey, (2022)

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	0.832 ^a	0.692	0.688	0.332

Table 4.5. Model Summary of Regression estimates for extracted factors and health and safety programme (HSP)

Model		Sum of Squares	Df	Mean Square	F	Sig.	
	Regression	94.082	5	18.816	170.510	0.000 ^b	
1	Residual	41.824	379	0.110			
	Total	135.906	384				

Table 4.6. Combined Effect of the extracted factors on Health and Safety Programme (ANOVA^a)

^a Dependent Variable: HASP

^b Predictors: (Constant), HF, MMSPR, MCEER, FECP, MCPN

	Model	Unstanda	ardized Coefficients	Standardized Coefficients	т	C:~
	Model	В	Std. Error	Beta		Sig.
	(Constant)	0.463	0.183		2.521	0.012
	MCPN	0.226	0.035	0.221	6.418	0.000
1	MCEER	0.031	0.028	0.037	1.098	0.273
1	FECP	0.291	0.024	0.359	11.885	0.000
	MMSPR	0.357	0.016	0.644	21.841	0.000
	HF	0.050	0.017	0.089	2.907	0.004

Table 4.7. Effect of the extracted factors on Health and Safety Programme (Coefficients^a)

^a Dependent Variable: HSP

Keys

- MCPN = My company provides notice on all occupational safety and health procedures
- MCEER = My company encourages employees to report accidents that occur at work
- FECP = Favourable environmental conditions provided at work will increase my productivity
- MMSPR = Management makes sufficient provision for resources to adopt OHS practices
- HF = Human failure
- HASP = Health and Safety Programme

5. Discussion of findings

Based on the findings from Table 4.5 to Table 4.8 in this study, however, it is scientifically justifiable to reject the null hypothesis one which states that "there are no significant factors influencing health and safety programme" of the selected electricity distribution companies in Nigeria". Hence, the study accepts the alternative hypothesis and concludes that "there are significant factors influencing health and safety programme" of the selected electricity distribution companies in Nigeria. The findings corroborated the study of (Yu, et al., 2019); they opined that the level of management control influences the extent of employee attitude and disposition to safety measures put in place. The study of Mwangi and Waiganjo (2017) supported their findings. Nordlof, et. al., (2017) found out that the negligent attitude of the workers influences occupational health and safety practices; they are of the opinion that a negligent attitude towards the safety culture in the company will worsen OHS practices. Othman et al., (2019) corroborated the study in their opinion that the management should be more committed, engage the employees in relevant training, and ensure collaboration of the stakeholders to have enforceable safety rules and regulations.

6. Conclusion

This study proved that the factors influencing health and safety programme identified and analysed had a significant effect on the selected electricity distribution companies in the Southwest, Nigeria. Thus, the identified factors such as organisational factors, management factors, environmental factors, and human factors were strong predictors of the selected electricity distribution companies' health and safety programme. The findings of this study implied that organisational factors, management factors, environmental factors, and human factors are valid constructs for predicting the health and safety programme of electricity distribution companies in the Southwest, Nigeria.

7. Recommendations

The following recommendations are suggested on the basis of the findings of the study and the conclusion agreed upon, which invariably could help in the deployment of health and safety programmes among employees of electricity distribution companies in the Southwest, Nigeria. Management of electricity distribution companies in the Southwest should allocate a substantial amount of resources to ensure that health and safety programmes increase so that employee performance could be improved and sustained. Upon the identification and acceptance of health and safety programmes, management must take steps as a matter of urgency to handle, put under control, and prevent the negative effects of factors that influence the OHSP, such as organisational factors, management factors, environmental factors, and the human factors, which were indicated as the highest factors that influenced the health and safety programme.

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Declarations

Funding: No specific funding was received for this work. **Potential competing interests:** No potential competing interests to declare.