

A Perspective Study On Analyzing Effectiveness of Employee Training and Development

¹ V.Ravikumar, ² P. Balakumar, ³ R. Dhanalakshmi

^{1,2} Professor, ³ Associate Professor

^{1,2} Prince Shri Venkateshwara Padmavathy Engineering College, Chennai 127

³ Jeppiaar Engineering College, Chennai 119

Email: ¹ vvr_siva@yahoo.co.in, ² balakumar.p@psvpec.in, ³ dhanalakshmi@gmail.com

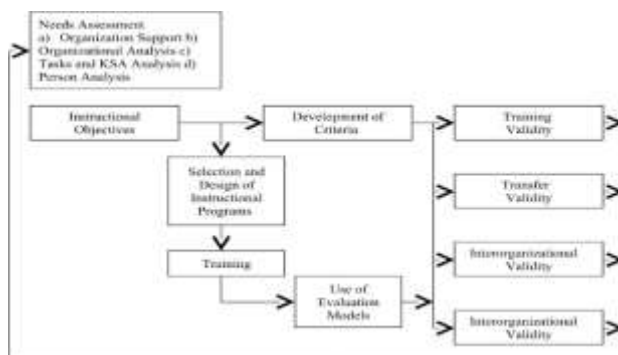
A crucial component of the development of human resources is training and development. It is playing an ever-more crucial role because of the development of technology, which has increased competition, raised customer expectations for quality and service, and necessitated cost-cutting measures. To equip people for new jobs, it has also gained importance on a global scale. In this article, we'll concentrate more on the growing need for training and development and how it affects both individuals and organisations. The study's primary goal is to determine the effectiveness of training and development and trying to identify the different training approaches used and evaluating the effectiveness of training. 200 out of 225 employees of a Private Organization participated in this survey. A kind of random sample methodology was employed for the investigation. Data are presented in tables and charts, and analysis and interpretation have been done using various statistical methods.

Keywords: Human resources, Training and Development, quality and service, statistical methods

1. Introduction

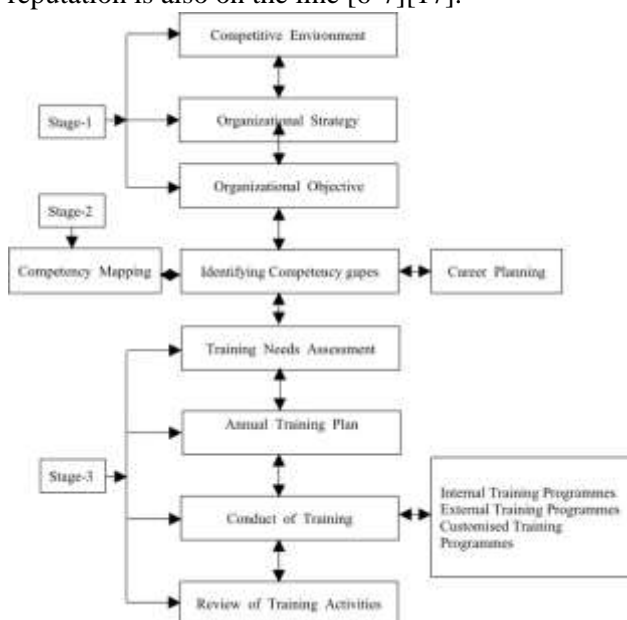
The most crucial component of any organisation is thought to be its training and development department. An organization must evaluate the success of training provided to staff to make them more efficient and competitive in the industry [1]. The goal of training is to teach the development of certain skills for a specific purpose. Training is the process of enhancing a worker's abilities to perform a specific job [2]. Learning a series of pre-programmed behaviours is the procedure for training. In the past, training programmes were more heavily geared at enhancing a specific job's performance. Mechanics, machine operators, and other skilled personnel from the operational levels used to make up most of the trainees [3][8]. When there were more issues with supervision, initiatives were taken to teach supervisors to provide better supervision.

Management development refers to any activities and programmes that, when acknowledged and managed, significantly alter an individual's capacity to carry out his assignment more effectively and, by doing so, significantly raise his potential for more assignments [4][16]. Following presumptions is the foundation of management development. Firstly, it is considered to be as a continuous programme that a management participates in



throughout their career. Secondly, Management growth rarely occurs in a totally calm and unhurried environment. Clear goal-setting and conducive environment are necessary for management development [5][9].

Identification of training needs (ITN) serves as the foundation for all subsequent training operations, if done correctly. It is a procedure that calls for thorough consideration and analysis and must be handled delicately since individuals value their ability to learn and because the organization's reputation is also on the line [6-7][17].



2. Literature Survey

A recent study investigated how training techniques affected workers' output in a Malaysian direct selling company. According to research, one of the key tasks in an organisation to guarantee a high level of competence with a competent team in order to continue and develop in a dynamic market condition is building a skilled and knowledgeable staff [10]. Examining the effects of the on and off the training on worker performance was the goal of this study. The outcome revealed that both on-the-job and off-the-job training had significant values of 0.000 and a normal beta value of 0.370 and 0.546, respectively. Based on the beta value measurement, the researcher discovered that off-the-job training has a greater impact on employee performance than on-the-job training [11][15].

A prototype based on earlier research is proposed and put to the test. 123 full-time employees from one of the largest public sector companies functioning in India made up the sample. This study is also subject to the typical problems associated with self-report measures (such as social desirability). The limited sample size was another drawback. Large sample sizes should be used in future investigations [12]. Future studies may examine the degree to which trainers and supervisors, in addition to trainees, feel responsible and accountable for training and its transfer. This would give the accountability hypothesis a greater test. Studying the kind of evaluation/assessment method that would be more suited for training transfer would also be beneficial [13][18].

Although commonly utilised in people selection, situational judgement tests (SJTs) have not been rigorously investigated as training design methodologies. Comparing SJT-based learners to those in conventional training, they demonstrated better gain in procedural and declarative knowledge. According to the findings, compared to solely using lecture-based training techniques, adding the SJT method into training programmes may result in improved acquisition of both procedural and declarative information [14]. Results point to a potential benefit of the authors' limited-fidelity, reasonably priced scenario-based training methodology over more conventional training techniques for improving recall of training content.

Supervisor assistance as a workplace variable is discovered to have distinct correlations with transfer, which is further complicated by the perspective of time, among the various elements directly or indirectly impacting transfer of training [7][19].

According to various studies, supervisor support for transfers has a variety of effects. Some researchers have found a direct-indirect association; others believe there is a positive or negative relationship; and a few have found mixed results. When trainee qualities are utilised as mediators, it is typically discovered that the association is indirect. The authors may conclude that there is no conclusive evidence about the relationship between supervisor support and transfer and that it depends on the context. By increasing trainees' drive to acquire and impart knowledge, supervisors can take use of their unique traits [2]. They can introduce trainees to the programme, talk about how to use newly acquired abilities in the workplace, create objectives, and give trainees prompt feedback.

According to a regression study, training depth indirectly promotes role behaviour, work autonomy moderates the relationship between teachers' efficacy and role behaviour, and training depth positively affects teachers' self-efficacy. Higher teacher efficacy also increases role behaviour [13][20]. These findings showed that teacher role behaviour is influenced by individual perceptions of training, skill development, and human resources development practises in primary schools, particularly in rural areas of India. This is done by increasing the teachers' ability to deal with challenging situations.

3. Scope and Methodology

The sample for the study consisted of 200 participants. Overall, an honest attempt has been made to have a one-on-one conversation with each respondent. Each question is also addressed in detail to aid comprehension and promote truthful responses. Many of the participants demonstrated a sincere interest in giving a thorough response to their ideas about the organisation and expressed ease answering the questions.

Surveys, observations, interviews, consumer panels, and other techniques are used to collect primary data. The primary information source for this inquiry was questionnaires. The documents pertinent to the general information about the business and its personnel are found in secondary sources, which include books, journals, and newspapers. The corporate profile, the internet, countless other documents, the scope, the requirement, and other firm reports are used to acquire secondary data.

Drawing conclusions and correlations between various factors using graphic representations of the data analysis results, which have been interpreted to offer recommendations for effective leadership with greater emotional stability even in the era of cultural diversity, has led to some specific conclusions about the study.

4. Experimental Results

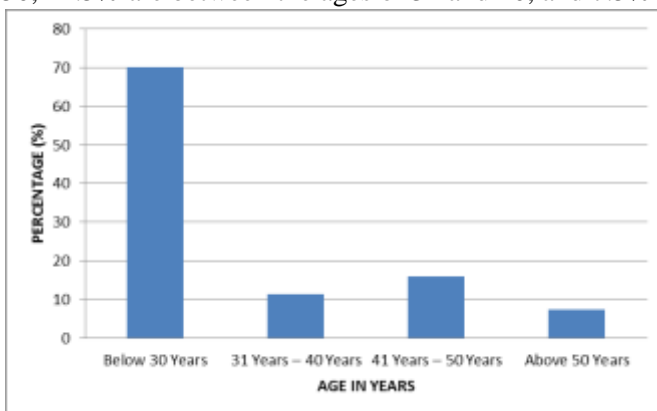
In this section, the data gathered with the use of research tools has been evaluated and interpreted in light of various demographic parameters like age, sex, and marital status, etc.

The Table of Age

S.no	Age in Years	No. of Respondents	Percentage (%)
1	Below 30 Years	140	70
2	31 Years – 40 Years	23	11.5
3	41 Years – 50 Years	32	16
4	Above 50 Years	15	7.5
	Total	200	100

Interpretation

According to the above data, 70% of respondents are under the age of 30, 16% are between the ages of 41 and 50, 11.5% are between the ages of 31 and 40, and 7.5% are over the age of 50.

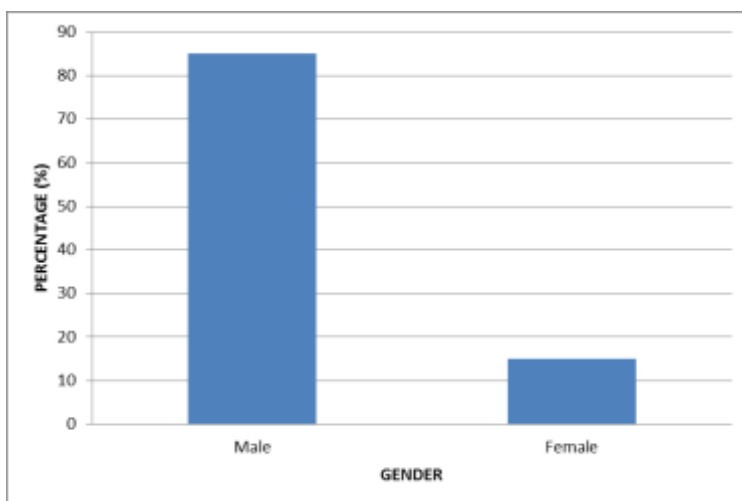


The table of Gender

S.no	Gender	No. of Respondents	% of Respondents
1	Male	170	85
2	Female	30	15
	Total	200	100

Interpretation:

It can be seen from the above table that 15% of respondents are women while 85% of respondents are men.

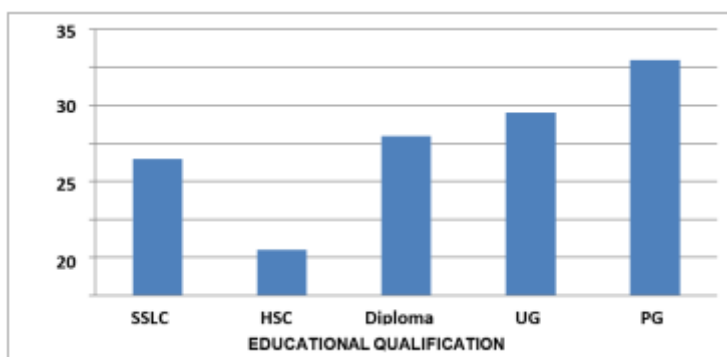


The table of Educational Qualification

S.no	EducationalQualification	No. of Respondents	% of Respondents
1	SSLC	36	18
2	HSC	12	6
3	Diploma	42	21
4	UG	48	24
5	PG	62	31
	Total	200	100

Interpretation:

According to the above table, 31% of respondents are graduate students, 24% are undergraduates, 21% have diplomas, 18% have SSLCs, and 6% have high school diplomas.



The table of Experience

S.no	Experience	No. of Respondents	% of Respondents
1	0 – 5 Years	58	29
2	5 – 10 Years	98	49
3	10 – 15 Years	20	10
4	More 15 Years	24	12
	Total	200	100

Interpretation

According to the aforementioned data, 49% of respondents have 5 to 10 years of work experience, 29% have more than 0 to 5 years, 12% have more than 15 years of experience, and 10% have 10 to 15 years of experience in the organisation.

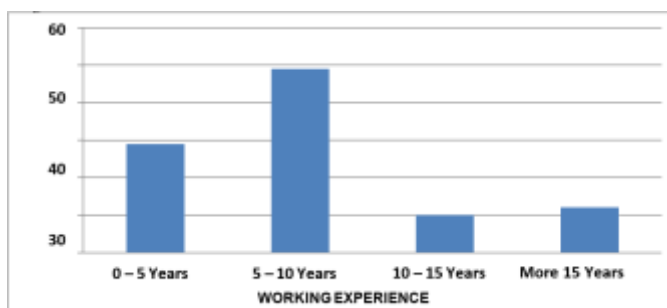


Table showing training and development enhances the skills of employees to perform better of the respondents

S.no	Opinion	No. of Respondents	Percentage (%)
1	Highly Agree	84	42
2	Agree	72	36
3	Neutral	22	11
4	Disagree	14	7
5	Highly Disagree	8	4
	Total	200	100

Interpretation:

According to the above table, 42% of respondents strongly agree, 36% agree, 11% are neutral, 7% disagree, and 4% strongly disagree with the statement.

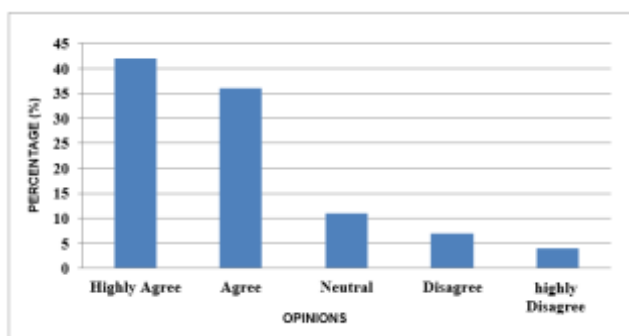


Table showing highly well-trained employees giving better performance of the respondents

S.no	Opinion	No. of Respondents	Percentage (%)
1	Highly Agree	26	13
2	Agree	62	31
3	Neutral	56	28
4	Disagree	32	16
5	Highly Disagree	24	12
	Total	200	100

Interpretation:

According to the above table, 42% of respondents strongly agree, 36% agree, 11% are neutral, 7% disagree, and 4% strongly disagree with the statement.

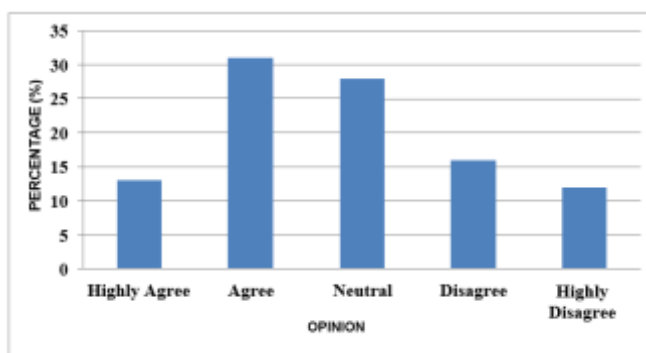


Table showing training program helpful in long run for respondents

S.no	Opinion	No. of Respondents	Percentage (%)
1	Highly Agree	20	10
2	Agree	76	38
3	Neutral	24	12
4	Disagree	60	30
5	Highly Disagree	20	10
	Total	200	100

Interpretation:

From the above table, it can be seen that 38% of respondents believe that the training programme is useful for them, 30% disagree, 12% are neutral, 10% strongly agree, and 10% strongly disagree that the training programme is helpful for them in the long run.

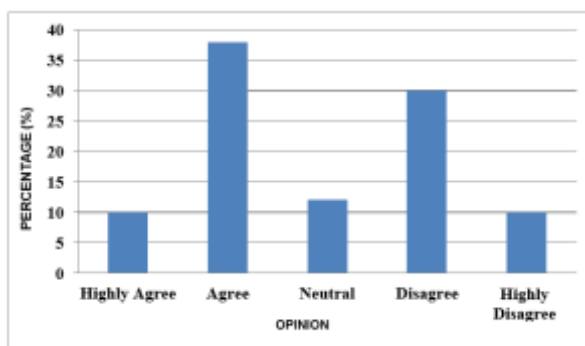


Table showing that company providing training to adopt latest technology the respondents

S.no	Opinion	No. of Respondents	Percentage (%)
1	Strongly Agree	34	17
2	Agree	12	6
3	Neutral	24	12
4	Disagree	66	33
5	Strongly Disagree	64	32
	Total	200	100

Interpretation:

According to the above table, 33% of respondents oppose the training to accept the newest technology, 32% of respondents strongly oppose it, 17% of respondents strongly agree with it, 12% of respondents are neutral on the issue, and 6% of respondents support the company's latest technology.

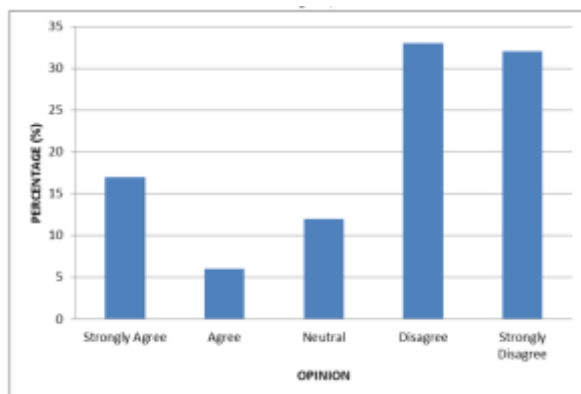


Table showing training and development provided for job satisfaction

S.no	Opinion	No. of Respondents	Percentage (%)
1	Strongly agree	100	50
2	Agree	28	14
3	Neutral	22	11
4	Strongly Disagree	4	2
5	Disagree	46	23
	Total	200	100

Interpretation:

According to the table, 50% of respondents strongly agree with their training and development, 23% strongly disagree, 14% highly agree, 11% strongly agree, and 2% strongly disagree with the training and development provided for job satisfaction.

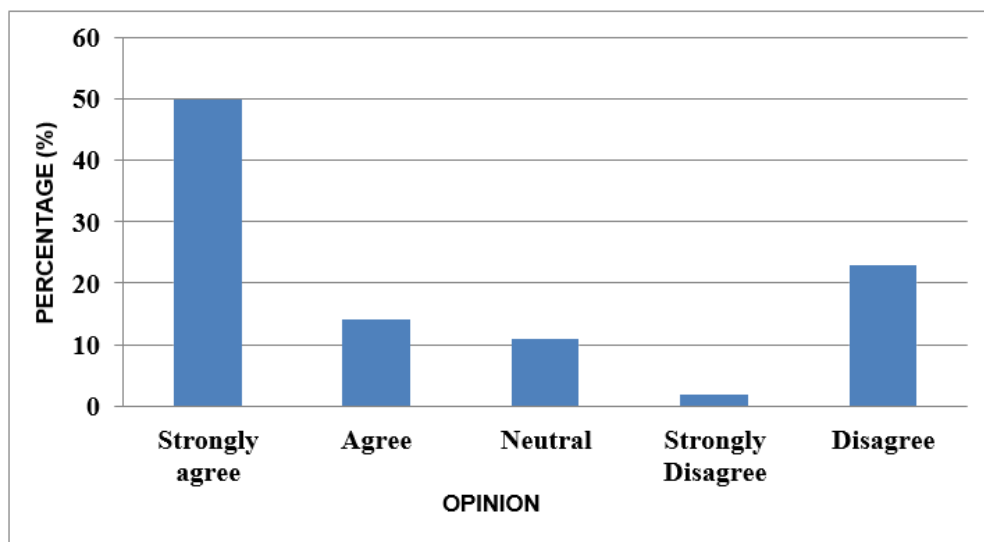


Table showing current training methods followed by the company for the respondents

S.no	Opinion	No. of Respondents	Percentage (%)
1	Role playing	80	40
2	On-the-job training	28	14
3	Off-the-job training	22	11
4	Technology-based learning	24	12
5	Simulator	46	23
	Total	200	100

Interpretation:

According to the aforementioned table, the current training techniques used by respondents include role playing, simulator training, on-the-job training, technology-based learning, and off-the-job training, which are used by 40%, 23%, 14%, 12%, and 11% of the respondents, respectively.

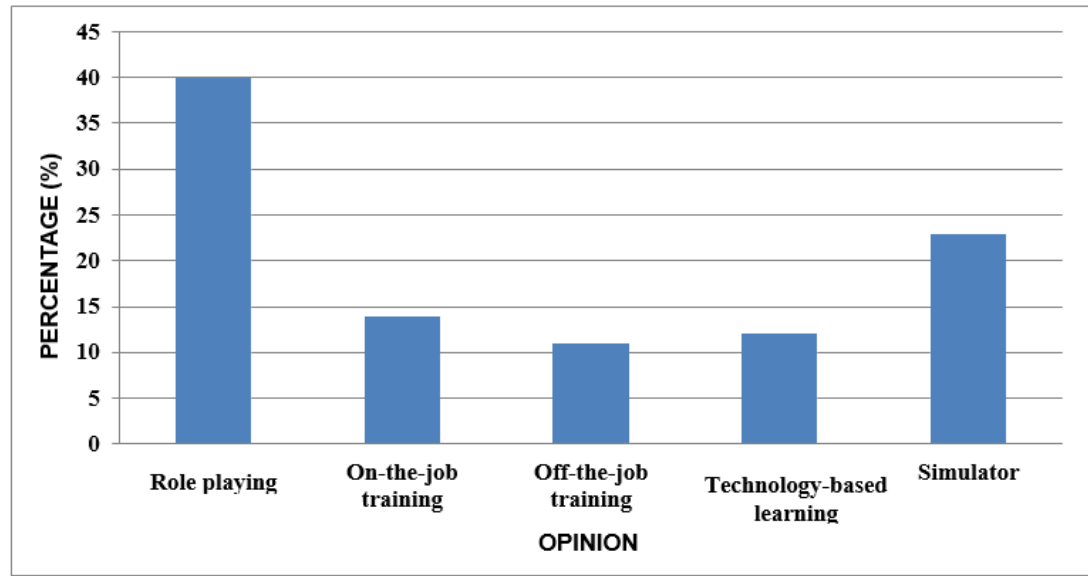
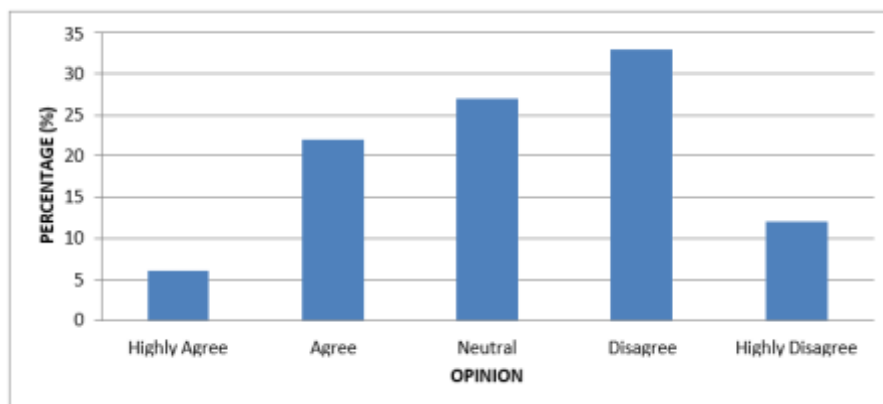


Table showing overall satisfaction level in current training and development of the respondents.

S.no	Opinion	No. of Respondents	Percentage (%)
1	Highly Agree	12	6
2	Agree	44	22
3	Neutral	54	27
4	Disagree	66	33
5	Highly Disagree	24	12
	Total	200	100

Interpretation:

According to the aforementioned table, the current training techniques used by respondents include role playing, simulator training, on-the-job training, technology-based learning, and off-the-job training, which are used by 40%, 23%, 14%, 12%, and 11% of the respondents, respectively.



5. Study Findings

- It was shown that 70% of respondents were under the age of 30.
- 85% of the replies are men, it has been discovered.
- It was discovered that 31% of the respondents held a PG degree.
- 55% of the respondents are engineers, it has been discovered.
- It was discovered that 49% of respondents had experience ranging from 5 to 10 years.
- According to the results, 37% of the respondents earn Rs. 50,000 or more per year or more.
- It was discovered that 36% of respondents concur that improving employees' abilities will help respondents perform better.

- It was shown that 31% of respondents concur that their highly trained personnel perform better than average.
- It was shown that 38% of respondents agreed and were obtaining long-term training programmes.
- It was shown that 30% of respondents strongly disagreed with the notion that improved job technique boosts performance and productivity.
- The results show that 33% of respondents don't agree that the business is offering training to adopt cutting-edge technologies.
- 50% of respondents said they strongly agreed with the development and training offered to increase job satisfaction.
- It was shown that 40% of the respondents receive role acting as their current form of instruction.
- It was discovered that 40% of respondents strongly concurred that the training programme is beneficial over the long term.
- The respondents' overall satisfaction with the state of training and development is found to be 33%.
- The significance level in comparison of gender and experience is less than 0.05. Consequently, there is no discernible difference between respondents' experiences and gender.
- The significance level in the comparison of age and performance case is less than 0.01. So, Age of the respondents and better performance of the respondents do not differ much.
- The weighted average mean score was determined to be 2.7, and it is reported that most respondents concur that training has assisted in improving an employee's attitude. Here, the significance level is at.000 and it is less than.05.
- Consequently, there is no discernible difference between the respondents' training programme and their level of satisfaction overall.

6. Suggestions

- The Human resources department should hold briefing and describing discussions for employees undergoing training in order to inform them of the objectives of the training and the reasons behind its conduct. After the training is complete, the Human resources department should also solicit feedback in order to gauge the effectiveness of training programs and make any necessary adjustments to the training curriculum.
- The business may focus more on employees who are dissatisfied with the current training technique in light of the research finding that 33% of employees are unhappy with it.
- According to the survey, 33% of respondents disagree that their organisations offer training to accept the newest technology; nonetheless, they may offer training in areas related to the newest technological advancements.

7. Conclusions

The presence and effective use of technical knowledge within an organisation for the welfare of its own stakeholders is guaranteed by this competency. To acquire this ability, it is crucial to perform frequent development and training. As a result, Human Resources have emphasised training activities and initiatives. Businesses need to spend more money and time on employee training when business markets change because of increased technology advances. The corporate environment of today calls for employee development. The process of training must include training evaluation. It provides feedback, helps sponsors and resource people improve their performance, and helps them create training and development plans. The ROI (Return of Investment), the necessity for retraining, and feedback to improve the training can all be determined via post-training assessments. They can also be used to evaluate the efficacy of a training programme.

8. References

- [1] Anjum Naweed, Angelina Ambrosetti, (2015) "Mentoring in the rail context: the influence of training, style, and practice", *Journal of Workplace Learning*, Vol. 27 No. 1, pp. 3-18, ISSN: 1366-5626.
- [2] Cody Brent Cox, Laura G. Barron, William Davis, Bernardo de la Garza, (2017) "Using situational judgment tests (SJTs) in training: Development and evaluation of a structured, low-fidelity scenario-based training method", Volume 9, ISSN Print: 0976-6340 and ISSN Online: 0976-6359.
- [3] Gosim Martin Chukwu, (2016) "Trainer attributes as drivers of training effectiveness ISSN: 0019-7858, Vol. 48 No. 7, pp. 367-373.
- [4] Pattanee Susomrith, Alan Coetzer, (2015) "Employees' perceptions of barriers to participation in training and development in small engineering businesses", ISSN: 1366-5626, Vol. 27 No. 7, pp. 561-578.
- [5] Geetha, S., Subburam, S., Selvakumar, S., Kadry, S., Damasevicius, R., (2021), "Steganogram removal using multidirectional diffusion in fourier domain while preserving perceptual image quality", *Pattern Recognition Letters*, vol.147, pp.197-205. doi:10.1016/j.patrec.2021.04.026
- [6] Shifani, S.A., Nanammal, V., Bhavani, R., Nishidha, A.A., (2018), "A Review on Strain Measurement in Bone Mechanics Using Various Techniques", 2017 IEEE International Conference on Computational Intelligence and Computing Research, ICCIC 2017. doi:10.1109/ICCIC.2017.8524236
- [7] Piyali Ghosh, Ragini Chauhan, Alka Rai, (2015) "Supervisor support in transfer of training: looking back at past research", ISSN: 0019-7858, Vol. 47 No. 4, pp. 201-20.
- [8] Ashok, V., Geetha, N.B., Rajkumar, S., Pauline, T., (2022), "Experimental Investigations for Thermal Energy Management by Encapsulation of Nano -Enhanced Bio Phase

- Change Material in buildings", *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*, vol.44(2), pp.4165-4183. doi:10.1080/15567036.2021.1967517
- [9] Karthikeyan, S., Mohan, B., Kathiresan, S., (2021), "Influence of Rotational Magnetorheological Abrasive Flow Finishing Process on Biocompatibility of Stainless Steel 316L", *Journal of Materials Engineering and Performance*, vol.30, no.2, pp.1545-1553. doi:10.1007/s11665-020-05442-0
- [10] C.S.Nivedha., S.Rathika., S.Sathiya Naveena., (2022), "A Study on Effectiveness of Employee Engagement in the Workplace". *International Journal of Early Childhood Special Education (INT JECSE)* DOI:10.9756/INTJECSE/V14I5.44 ISSN: 1308-5581 Vol 14, Issue 05 2022.
- [11] Jacob, J.J., Meshach, W.T., (2020), "Industrial Internet of Things (IIoT) – An IoT Integrated Services for Industry 4.0: A Review", *International Journal of Applied Science and Engineering*, vol.8, pp.37-42. doi:10.30954/2322-0465.1.2020.5
- [12] Nagendrakumar, S., Aparna, R., Ramesh, S., (2014), "A non-grouping anonymity model for preserving privacy in health data publishing", *2014 International Conference on Science Engineering and Management Research, ICSEMR 2014*, vol., pp.-. doi:10.1109/ICSEMR.2014.7043554
- [13] Anugamini Priya Srivastava, Rajib Lochan Dhar, (2015) "Training comprehensiveness: construct development and relation with role behaviour", *European Journal of Training and Development*, Vol. 39 No. 7, pp. 641-662, ISSN: 2046-9012.
- [14] Amitabh Deo Kodwani, (2017) "Decoding training effectiveness: the role of organisational factors", ISSN: 1366-5626, *Journal of Workplace Learning*, Vol. 29 No. 3, pp. 200-216.
- [15] Rajesh, G., Raajini, X.M., Sagayam, K.M., Dang, H., (2020), "A statistical approach for high order epistasis interaction detection for prediction of diabetic macular edema", *Informatics in Medicine Unlocked*, vol.20. doi:10.1016/j.imu.2020.100362
- [16] Shirley, D.R.A., Sundari, V.K., Sheeba, T.B., Rani, S.S., (2021), "Analysis of IoT-Enabled Intelligent Detection and Prevention System for Drunken and Juvenile Drive Classification", *EAI/Springer Innovations in Communication and Computing*, pp.183-200. doi:10.1007/978-3-030-59897-6_10
- [17] Rajesh, G., Raajini, X.M., Sagayam, K.M., Bhushan, B., Köse, U., (2020), "Fuzzy genetic based dynamic spectrum allocation approach for cognitive radio sensor networks", *Turkish Journal of Electrical Engineering and Computer Sciences*, vol.28, pp.2416-2432. doi:10.3906/ELK-1907-206
- [18] Balaji, V., Umapathy, N., Duraisamy, V., Umapathy, K., Venkatesan, P., Saravanakumar, S., (2015), "Enhancing varying overhead ad hoc on demand distance vector with artificial ants", *Jurnal Teknologi*, vol.77, pp.39-42. doi:10.11113/jt.v77.6784
- [19] Haralayya, Dr. Bhadrappa, Review on the Productive Efficiency of Banks in Developing Country (2018). *Journal for Studies in Management and Planning*, Volume 04 Issue 05,

April 2018, Available at SSRN: <https://ssrn.com/abstract=3837496>

- [20] Bhadrappa Haralayya . "Ration Analysis With Reference to DCC Bank" Iconic Research And Engineering Journals, Volume 5, Issue 1, July 2021, Page 122-130 Available at: [https://irejournals.com/formatedpaper/1702833. pdf](https://irejournals.com/formatedpaper/1702833.pdf)
- [21] Selwyn, T., Kesavan, R.,(2015),"Sensitivity analysis of wind turbine availability and its sub assemblies at high uncertain wind",International Journal of Applied Engineering Research,vol.10,pp.10225-10229.
- [22] Mohandass, G., Suguna Devi, K., Devanesan,(2010),"Antifungal activity of Pterocarpus santalinus an in vitro study",Biomedical and Pharmacology Journal,vol.3,pp.107-110.