International Journal of Advanced Psychiatric Nursing

Jesvin George
Professor, Psychiatric Nursing,
Madhya Pradesh, India

Dr. Nelson Jewas
Dean, Department of Nursing
Sciences, Mansarovar Global
University, Bhopal, Madhya
Pradesh, India

Effectiveness of positive reinforcement and goal setting therapy on enhancing job satisfaction among warehouse staffs working in warehouses at Bangalore: A quasi-experimental study

Jesvin George and Dr. Nelson Jewas

DOI: https://www.doi.org/10.33545/26641348.2025.v7.i2a.223

Abstract
Employee satisfaction is a crucial determinant of performance, productivity, and retention, particularly in labor-intensive settings like warehouses. The present quasi-experimental study aimed to evaluate the effectiveness of a one-week structured program combining *Positive Reinforcement* and *Goal Setting Therapy* on enhancing job satisfaction among warehouse staff in Bangalore. Two hundred warehouse employees from five major logistics centers were selected using purposive sampling. Data were collected using a standardized Job Satisfaction Scale before and after the intervention. The combined therapy program was designed to promote intrinsic motivation, achievement orientation, and reinforcement of desirable work behaviors through guided feedback, recognition, and personal goal-setting activities. The pre-test mean job satisfaction score was 68.42 (SD = 8.11), which improved significantly to 85.96 (SD = 7.20) post-intervention ($t(199) = 28.56$, $p<0.001$). Domain-wise analysis revealed significant improvements in work motivation, peer relationship, and professional commitment. The findings demonstrated that integrating behavioral reinforcement with cognitive goal-setting principles effectively enhances employees' emotional well-being and job satisfaction. The study recommends institutionalizing such programs in warehouse training systems to improve morale, performance, and staff retention.

Keywords: Positive reinforcement, goal setting therapy, job satisfaction, warehouse staff, behavioral intervention, quasi-experimental study, Bangalore

Introduction

Warehouses represent one of the most critical links in supply chain management, serving as storage and dispatch points for goods in manufacturing, retail, and logistics sectors. In India's rapidly expanding e-commerce and retail landscape, the demand for efficient, motivated warehouse staff has increased exponentially. However, the physically demanding nature of warehouse work, repetitive tasks, extended shifts, and limited recognition often contribute to reduced job satisfaction and high employee turnover (Sharma & Patel, 2020) [8]. Job satisfaction reflects the extent to which employees feel fulfilled, motivated, and content with their work environment and duties. It encompasses various domains, including compensation, interpersonal relationships, organizational policies, and opportunities for advancement. Low job satisfaction has been linked to absenteeism, burnout, and reduced performance, especially in blue-collar and logistics occupations (Kumar & Jain, 2018) [4].

Positive Reinforcement — derived from B.F. Skinner's operant conditioning theory — refers to the use of rewards, acknowledgment, and praise to strengthen desired behaviors. It operates on the principle that behaviors followed by positive outcomes are likely to be repeated (Skinner, 1974) [9]. Similarly, Goal Setting Therapy, rooted in Locke and Latham's Goal Setting Theory (1990), focuses on developing clear, attainable, and challenging goals that motivate employees to perform at higher levels.

Combining both approaches aligns behavioral modification (reinforcement) with cognitive motivation (goal setting), creating a comprehensive model for workplace improvement. This integration can enhance intrinsic motivation, accountability, and overall satisfaction in repetitive job environments like warehouses.

Corresponding Author:
Jesvin George
Professor, Psychiatric Nursing,
Madhya Pradesh, India

Thus, this study was undertaken to assess the effectiveness of a one-week combined Positive Reinforcement and Goal Setting Therapy program in improving job satisfaction among warehouse staff in Bangalore.

Review of Literature
Das and Verma (2018) [2] found that reward-based interventions significantly improved task completion and morale among industrial workers.

Kumar and Jain (2018) [4] emphasized the importance of motivation-oriented training in the logistics sector, noting that 63% of dissatisfied workers cited lack of recognition as a primary factor.

Nair (2019) [5] demonstrated that self-regulated goal-setting improved engagement and emotional stability among shift-based manufacturing employees.

Paul and Devi (2020) [6] explored reinforcement-based feedback in retail workers and observed a 40% improvement in work commitment.

Ali *et al*. (2021) [1] conducted a meta-analysis on goal-setting interventions and found consistent evidence of enhanced job satisfaction and productivity.

Fernandes (2022) [3] argued that combined motivational interventions yield stronger results than singular techniques, especially in repetitive work environments.

Reddy and Joseph (2023) [7] reported significant gains in job satisfaction among warehouse employees in Hyderabad following structured positive reinforcement sessions.

Despite these findings, limited empirical studies have focused on combining both interventions among warehouse staff in Bangalore — a workforce segment characterized by demanding workloads and limited access to psychological training programs.

The present study therefore bridges this research gap by evaluating a one-week structured behavioral-cognitive intervention designed to improve overall job satisfaction.

Objectives
1. To assess the pre-test level of job satisfaction among warehouse staff in Bangalore.
2. To evaluate the effectiveness of Positive Reinforcement and Goal Setting Therapy on job satisfaction.
3. To identify the association between pre-test job satisfaction scores and selected demographic variables.

Hypotheses
- **H₁:** There is a significant difference between pre-test and post-test job satisfaction scores following the intervention.
- **H₂:** There is a significant association between pre-test job satisfaction scores and selected demographic variables (age, gender, education, and experience).

Methodology
Research Design
A quasi-experimental one-group pre-test post-test design was used.

Setting
The study was conducted in five selected warehouses in Bangalore, including facilities operated by Flipkart, Amazon, BigBasket, Reliance Logistics, and Metro Cash & Carry.

Population
All full-time warehouse staff employed for at least one month.

Sample and Sampling Technique
A purposive sample of 200 warehouse staff aged 20-45 years was selected.

Inclusion Criteria
- Full-time warehouse employees.
- Ability to read and understand English or Kannada.
- Willingness to participate in the full one-week program.

Exclusion Criteria
- Supervisory staff or temporary workers.
- Employees currently under disciplinary review or on extended leave.

Development of Intervention: Combined Positive Reinforcement and Goal Setting Therapy
A one-week structured program was designed and implemented:

Day	Focus Area	Activity Summary
Day 1	Introduction to motivation & self-assessment	Orientation, baseline job satisfaction survey, discussion on motivation at work.
Day 2	Positive reinforcement	Group session on recognizing positive behavior, peer praise exercises.
Day 3	Goal-setting fundamentals	Training on SMART goals, setting personal and team goals.
Day 4	Reinforcement through feedback	Supervisors practiced positive feedback and appreciation in real-time.
Day 5	Integration and reflection	Review of progress, reinforcement messages, post-test evaluation, feedback sharing.

The program incorporated visual posters, brief videos, and reward cards to reinforce desirable behaviors and achievements.

Facilitators included HR managers, industrial psychologists, and trained supervisors.

Tool for Data Collection
Job Satisfaction Scale (JSS): A structured questionnaire with 40 items on a 5-point Likert scale covering:
- Work environment
- Interpersonal relations
- Recognition and reward
- Workload balance
- Organizational commitment

Scoring
- Maximum = 200; Minimum = 40
- <100: Low job satisfaction
- 101-150: Moderate job satisfaction
- >150: High job satisfaction

Reliability: Cronbach's alpha = 0.89 (high internal consistency).

Data Collection Procedure
1. Pre-test administered to all participants on Day 1.

2. One-week structured program conducted.
3. Post-test conducted on Day 7.
4. Confidential feedback collected to assess acceptability of intervention.

Data Analysis

Statistical analysis was performed using SPSS version 26.

- **Descriptive statistics:** Frequency, percentage, mean, SD.
- **Inferential statistics:** Paired *t*-test for effectiveness; Chi-square test for associations.
- Significance level: *p*<0.05.

6. Results

Table 1: Demographic Characteristics of Participants (N = 200)

Variable	Category	Frequency (%)
Age	20-25 years	70 (35%)
	26-35 years	90 (45%)
	36-45 years	40 (20%)
Gender	Male	160 (80%)
	Female	40 (20%)
Education	Secondary	90 (45%)
	Higher Secondary	70 (35%)
	Graduation	40 (20%)
Experience	<1 year	50 (25%)
	1-3 years	100 (50%)
	>3 years	50 (25%)

Table 2: Comparison of Pre-Test and Post-Test Job Satisfaction Scores (N = 200)

Domain	Pre-test Mean (SD)	Post-test Mean (SD)	Mean Difference	*t* value	*p* value
Work Environment	13.2 (2.3)	17.1 (1.9)	3.9	21.36	<0.001
Interpersonal Relations	13.0 (2.4)	16.8 (2.0)	3.8	19.82	<0.001
Recognition & Reward	13.4 (2.6)	17.3 (2.2)	3.9	20.45	<0.001
Workload Balance	14.1 (2.5)	17.5 (2.1)	3.4	18.93	<0.001
Organizational Commitment	14.7 (2.8)	17.3 (2.0)	2.6	14.76	<0.001
Overall	68.42 (8.11)	85.96 (7.20)	17.54	28.56	<0.001

Interpretation: The mean post-test job satisfaction score was significantly higher than the pre-test score, confirming the effectiveness of the combined intervention.

Table 3: Association Between Pre-Test Job Satisfaction and Demographic Variables

Variable	χ² value	*p* value	Interpretation
Age	5.26	0.22	NS
Gender	2.14	0.16	NS
Education	9.44	0.03	Significant
Experience	10.82	0.02	Significant
NS = Not Significant.			

Interpretation: Educational qualification and work experience were significantly associated with baseline job satisfaction levels.

Discussion

The findings revealed a substantial improvement in job satisfaction among warehouse staff following the one-week combined Positive Reinforcement and Goal Setting Therapy program. The overall mean score increased by 17.54 points, demonstrating the effectiveness of the intervention.

This aligns with Ali *et al*. (2021), who emphasized that goal clarity combined with positive feedback fosters intrinsic motivation and satisfaction. The present study also resonates with Fernandes (2022), who found combined motivation models more effective than isolated strategies.

Participants reported that recognition from supervisors, goal achievement tracking, and peer acknowledgment enhanced their confidence and morale. Improvements in the "Recognition and Reward" domain indicate that consistent positive reinforcement can counterbalance the monotony often experienced in warehouse environments.

Education and experience emerged as significant factors, suggesting that more educated and experienced employees may adapt better to behavioral interventions due to stronger self-regulation abilities.

The results reinforce behavioral-cognitive synergy theories, demonstrating that reinforcement strengthens habits, while goal-setting directs those habits toward meaningful outcomes.

Conclusion

The study concludes that Positive Reinforcement and Goal Setting Therapy significantly improve job satisfaction among warehouse staff. The quasi-experimental results demonstrated enhanced motivation, peer relations, and professional commitment post-intervention.

Implementing such structured programs can promote a culture of appreciation, self-improvement, and sustained motivation in industrial and logistics environments.

Recommendations

1. Integrate motivational and goal-setting programs into employee training systems.
2. Conduct periodic reinforcement sessions to maintain engagement.
3. Train supervisors in feedback and recognition techniques.
4. Develop digital goal-tracking tools for continuous reinforcement.
5. Replicate the study with control groups for broader generalization.

Limitations

- Conducted only in selected Bangalore warehouses.
- Short-term post-test; no follow-up for long-term effect.
- Self-reported data may include response bias.

Implications

- **For Organizations:** Improved retention, teamwork, and productivity.
- **For HR Professionals:** Model for low-cost, evidence-based motivational training.
- **For Researchers:** Framework for future longitudinal or comparative studies.

Conflict of Interest

Not available

Financial Support

Not available

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