



The Impact of Employee Training and Empowerment on Employee Creativity with reference to United Tyrekrfts Pvt Ltd.

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Abstract:

This study investigates the influence of employee training and empowerment on creativity at United Tyrekrfts Pvt Ltd., a key player in the hydraulic systems sector. Data were collected from 100 employees via a survey, assessing training participation, empowerment perceptions, and creative output. We hypothesized that training and empowerment individually enhance creativity, with their combined effect being greater than either alone. Composite indices were created for training, empowerment, and creativity, analyzed using correlation and multiple regression. Results revealed strong positive correlations (training-creativity: $r = 0.65$, $p < 0.05$; empowerment-creativity: $r = 0.58$, $p < 0.05$) and significant regression coefficients (training: $\beta = 0.45$, $p < 0.001$; empowerment: $\beta = 0.40$, $p = 0.001$; interaction: $\beta = 0.30$, $p < 0.001$), supporting all hypotheses. These findings suggest that United Tyrekrfts can boost innovation by enhancing training and empowerment practices, offering practical implications for fostering a creative workforce.

Keywords: Employee Training, Employee Empowerment, Employee Creativity, Organizational Behaviour, Human Resource Management, United Tyrekrfts Pvt. Ltd.

Introduction:

Employee creativity is a cornerstone of organizational innovation, enabling firms to adapt to competitive pressures and develop novel solutions. In the hydraulic systems sector, where precision and innovation are critical, companies like United Tyrekrfts Pvt Ltd. rely on creative employees to maintain market leadership. Creativity, defined as the generation of novel and useful ideas (Amabile, 1996), is influenced by both individual capabilities and organizational factors. Two pivotal strategies—employee training and empowerment—stand out as potential drivers of this creative output.

Training equips employees with skills and knowledge, broadening their problem-

solving toolkit and potentially sparking creative insights. At United Tyrekrfts Pvt Ltd, training programs range from technical skills to managerial leadership, aimed at enhancing employee competence. However, the extent to which these programs translate into creative behaviour remains underexplored. Empowerment, involving autonomy, decision-making authority, and trust, fosters an environment where employees feel safe to experiment and innovate (Spreitzer, 1995). Together, training and empowerment may synergistically enhance creativity by providing both the tools and the freedom to use them effectively.

United Tyrekrfts Pvt Ltd., based in India, operates in a dynamic industry where

innovation drives growth. As of March 2025, the company has implemented various training and empowerment initiatives, yet empirical evidence on their impact on creativity is lacking. This study addresses this gap by examining how these practices influence employee creativity, offering insights to refine organizational strategies. The motivation stems from the need to align human resource practices with innovation goals, particularly in a technical field where creativity can yield significant competitive advantages.

The research poses critical questions: How does training affect employee creativity? What role does empowerment play? And does their combined effect amplify creative outcomes? By exploring these relationships, the study aims to provide actionable recommendations for United Tyrekrfts, contributing to both academic understanding and practical application in the hydraulic systems sector. Guided by specific objectives and hypotheses, this paper leverages a robust survey-based methodology to deliver evidence-based conclusions.

Literature Review:

The interplay between employee training, empowerment, and creativity has been extensively studied, offering a theoretical foundation for this research. Amabile's (1996) componential theory of creativity posits that creativity emerges from domain-relevant skills, creativity-relevant processes, and intrinsic motivation, all of which can be influenced by organizational practices. Training enhances domain-relevant skills by providing employees with technical knowledge and problem-solving abilities, potentially fostering creative thinking (Noe, 2017). Scott et al. (2004) conducted a meta-analysis showing that creativity training programs increase creative performance by 0.68 standard deviations, particularly when tailored to

specific roles. This suggests that at United Tyrekrfts Pvt Ltd, technical and managerial training could directly enhance employees' capacity for innovation.

Empowerment, encompassing autonomy, trust, and decision-making authority, is equally critical. Deci and Ryan's (1985) self-determination theory links empowerment to intrinsic motivation, arguing that autonomy and competence needs to drive creative behavior. Spreitzer (1995) identified four dimensions of psychological empowerment—meaning, competence, self-determination, and impact—each fostering an environment conducive to creativity. Zhang and Bartol (2010) found that empowering leadership increases creative process engagement by 30%, as employees feel trusted to explore new ideas. This is particularly relevant in technical sectors like the company, where empowerment can encourage risk-taking essential for innovation (Amabile et al., 1996).

The synergy between training and empowerment is less studied but theoretically compelling. Training provides the "how" (skills and knowledge), while empowerment offers the "why" and "where" (motivation and opportunity), suggesting a combined effect greater than the sum of individual contributions (Shalley & Gilson, 2004). For instance, a trained employee without autonomy may lack the freedom to apply skills creatively, while an empowered employee without training may lack the tools to innovate effectively. Research by Oldham and Cummings (1996) supports this, showing that supportive environments amplify the effects of skill development on creativity.

In the Indian context, studies are limited, but Gupta and Sharma (2019) suggest that cultural factors—like collectivism—may enhance empowerment's impact by fostering collaborative creativity. For the company, operating in a technical

and competitive field, this study bridges global insights with local application, addressing a gap in sector-specific research. The literature underscores the need to test these relationships empirically, providing a basis for this investigation.

Objectives of the Study:

1. To assess the relationship between employee training and creativity at United Tyrekrafts Pvt Ltd.
2. To evaluate the impact of employee empowerment on creativity at United Tyrekrafts Pvt Ltd.
3. To examine the combined effect of training and empowerment on employee creativity.
4. To draw conclusions on the study based on the statistical findings and recommend best practices for enhancing creativity.

Hypotheses of the Study:

H1: Employee training positively affects employee creativity at United Tyrekrafts Pvt Ltd.

H2: Employee empowerment positively affects employee creativity at United Tyrekrafts Pvt Ltd.

H3: The combined effect of employee training and empowerment has a greater positive impact on employee creativity than either factor alone.

Research Methodology:

This study utilized a quantitative research design, collecting data via an online survey from 100 employees at United Tyrekrafts Pvt Ltd. in August - September 2024, selected through purposive sampling to represent diverse roles (50% mid-level, 30% entry-level, 15% senior-level, 5% executive) and tenure (40% 1-3 years, 30% <1 year, 20% 4-7 years, 10% >7 years); participation was voluntary with confidentiality assured. Training was measured using six Likert-scale items (e.g., frequency: 1 = Occasionally to 4 = Always;

effectiveness: 1 = Slightly effective to 4 = Very effective), empowerment via seven items (e.g., control: 1 = None to 4 = A lot; trust: 1 = Slightly trusted to 4 = Very trusted), and creativity through six items (e.g., idea generation: 1 = Rarely to 4 = Always; freedom: 1 = Limited to 4 = Extensive), with composite indices computed (Cronbach's alpha > 0.80). Data were analyzed using SPSS (Version 28), employing descriptive statistics for sample characteristics, Pearson correlation for H1 and H2, and multiple regression with an interaction term for H3, setting $\alpha = 0.05$ for significance.

Descriptive Analysis:

Table: Descriptive Statistics of Sample Characteristics at United Tyrekrafts Pvt. Ltd.

Category	Subcategory	Percentage (%)	Frequency (N = 100)
Gender			
	Male	65%	65
	Female	35%	35
Age Distribution			
	Under 25	30%	30
	25-34	40%	40
	35-44	20%	20
	45 and above	10%	10
Position/ Role			
	Mid-level	50%	50
	Entry-level	30%	30
	Senior-level	15%	15
	Executive	5%	5
Years with the Company			
	Less than 1 year	30%	30
	1-3 years	40%	40
	4-7 years	20%	20
	More than 7 years	10%	10

Descriptive statistics provide insight into the sample and variables at United Tyrekrafts Pvt. Ltd. The sample (N = 100)

was 65% male and 35% female, with ages distributed as 40% (25-34), 30% (under 25), 20% (35-44), and 10% (45+). Roles included 50% mid-level, 30% entry-level, 15% senior-level, and 5% executive, while tenure was 40% (1-3 years), 30% (<1 year), 20% (4-7 years), and 10% (>7 years). This diversity reflects a young, mid-level-heavy workforce, potentially receptive to training and empowerment.

Table 2: Descriptive Statistics of Key Variables

Variable	Mean	SD	Skewness	Min	Max
Training Index	3.2	0.6	-0.1	1.8	4.0
Empowerment Index	3.0	0.7	0.0	1.5	4.0
Creativity Index	2.8	0.5	0.2	1.6	4.0

The training index ($M = 3.2$, $SD = 0.6$) indicates moderate to high engagement and perceived effectiveness, with a slight left skew (-0.1) suggesting most employees rated training positively (e.g., “often” or “always” participate, “very effective”). Common training types included technical (60%), soft skills (50%), and managerial (30%), reflecting a broad approach. The empowerment index ($M = 3.0$, $SD = 0.7$) shows balanced perceptions, with no skew (0.0), indicating consistent moderate empowerment (e.g., “some” to “a lot” control, “moderately” to “very trusted”). The creativity index ($M = 2.8$, $SD = 0.5$) suggests slightly lower creative output, with a right skew (0.2) implying some employees report less frequent idea generation or recognition. Qualitative feedback highlighted “supportiveness” and “freedom” as creativity enablers, while “time pressure” and “fixed mindset” were barriers, providing context for these scores.

Extended Data Analysis with Table and Interpretation:

Correlation Analysis:

Pearson correlation assessed relationships between variables, testing H1 and H2.

Table 3: Correlation Matrix

Variables	Training Index	Empowerment Index	Creativity Index
Training Index	1.00		
Empowerment Index	0.42*	1.00	
Creativity Index	0.65*	0.58*	1.00

- $p < 0.05$

Training and creativity showed a strong positive correlation ($r = 0.65$, $p < 0.05$), indicating that higher training engagement and effectiveness align with increased creative output. Empowerment and creativity also correlated positively ($r = 0.58$, $p < 0.05$), suggesting that greater autonomy and trust boost creativity. The moderate correlation between training and empowerment ($r = 0.42$, $p < 0.05$) implies they are related but distinct, supporting their independent and combined roles.

Regression Analysis:

Multiple regression tested H3, with creativity as the dependent variable and training, empowerment, and their interaction as predictors.

Table 1: Regression Analysis Results

Variable	β	SE	t	P-value
Constant	1.20	0.25	4.80	<0.001
Training Index	0.45	0.10	4.50	<0.001
Empowerment Index	0.40	0.12	3.33	0.001
Interaction Term	0.30	0.08	3.75	<0.001
$R^2 = 0.65$, $F = 25.60$, $p < 0.001$				

The model explained 65% of variance in creativity ($R^2 = 0.65$), with a

significant fit ($F = 25.60$, $p < 0.001$). Training ($\beta = 0.45$, $p < 0.001$) and empowerment ($\beta = 0.40$, $p = 0.001$) were strong predictors, confirming H1 and H2. The interaction term ($\beta = 0.30$, $p < 0.001$) indicates a synergistic effect, supporting H3. This suggests that when training and empowerment are high, creativity increases beyond their individual contributions, consistent with Amabile (1996) and Zhang and Bartol (2010).

Interpretation: The strong correlations and regression coefficients align with theoretical expectations, showing training equips employees with skills (e.g., technical expertise) and empowerment fosters freedom to innovate. The interaction effect highlights a practical synergy at United Tyrekrfts, where trained, empowered employees excel creatively.

Hypothesis Validation and Conclusion:

H1: Supported. Training's correlation ($r = 0.65$, $p < 0.05$) and regression coefficient ($\beta = 0.45$, $p < 0.001$) confirm a positive effect on creativity, aligning with Scott et al. (2004).

H2: Supported. Empowerment's correlation ($r = 0.58$, $p < 0.05$) and coefficient ($\beta = 0.40$, $p = 0.001$) indicate a positive impact, consistent with Spreitzer (1995).

H3: Supported. The significant interaction term ($\beta = 0.30$, $p < 0.001$) shows a combined effect greater than individual impacts, supporting synergy (Shalley & Gilson, 2004).

This study demonstrates that training and empowerment significantly enhance employee creativity at United Tyrekrfts Pvt. Ltd., with their combined effect amplifying outcomes. As of March 2025, these findings suggest that investing in tailored training and fostering autonomy can drive innovation, offering a competitive edge in the hydraulic sector. Recommended best practices include:

1. **Customized Training:** Align programs with job roles and creativity skills.
2. **Empowerment Culture:** Increase autonomy and trust through decision-making roles.
3. **Feedback and Recognition:** Provide regular, constructive feedback and reward creativity.
4. **Risk Encouragement:** Support experimentation to nurture innovation.

Conclusion:

This study has demonstrated that employee training and empowerment significantly enhance creativity at United Tyrekrfts Pvt. Ltd., supporting all three hypotheses tested as of March 2025. The strong positive correlations between training and creativity ($r = 0.65$, $p < 0.05$) and empowerment and creativity ($r = 0.58$, $p < 0.05$), coupled with significant regression coefficients (training: $\beta = 0.45$, $p < 0.001$; empowerment: $\beta = 0.40$, $p = 0.001$), affirm that both factors independently foster creative output among the 100 surveyed employees. Moreover, the significant interaction term ($\beta = 0.30$, $p < 0.001$) underscores a synergistic effect, where the combined influence of training and empowerment exceeds their individual contributions, aligning with the theoretical framework of Amabile (1996) and Spreitzer (1995). These findings highlight the critical role of equipping employees with relevant skills through training while simultaneously providing an empowering environment that encourages autonomy and risk-taking, particularly in a technical sector like hydraulic systems where innovation is paramount. The descriptive analysis further revealed a young, mid-level-heavy workforce (40% aged 25-34, 50% mid-level), suggesting a demographic primed to leverage these initiatives for creative gains, reinforcing the practical relevance of the results for United Tyrekrfts.

The implications of this research are twofold: it offers actionable strategies for United Tyrekräfts Pvt. Ltd. to bolster creativity and contributes to the broader discourse on organizational behaviour in technical industries. Practically, the company should invest in tailored training programs—technical, managerial, and creativity-focused—ensuring high quality and relevance (mean training index = 3.2), while fostering empowerment through increased autonomy, trust, and feedback (mean empowerment index = 3.0), as these directly enhance creativity (mean creativity index = 2.8). The synergy identified suggests a holistic approach, integrating these practices to maximize innovation, potentially strengthening United's competitive edge. Employee feedback emphasizing “supportiveness” and “freedom” as creativity enablers, alongside barriers like “time pressure,” points to the need for a supportive culture that mitigates constraints. For future research, longitudinal studies could assess the sustained impact of these interventions, while comparative analyses with other Indian firms or sectors could generalize the findings. Ultimately, this study underscores that a strategic blend of training and empowerment not only elevates employee creativity but also positions United Tyrekräfts Pvt. Ltd. as a leader in fostering an innovative workforce, ready to meet the evolving demands of the hydraulic systems market.

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