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Practical application of the Lima Happiness Scale in workers of service companies at Barquisimeto, Venezuela

Aplicación práctica de la Escala de Felicidad de Lima en trabajadores de empresas de servicios de Barquisimeto, Venezuela

Application pratique de l'échelle de bonheur de Lima chez les travailleurs des entreprises de services de Barquisimeto, Venezuela

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Abstract

The objective of this paper is to obtain indicators to allow to measure the happiness degree for a sample of workers, through the Alarcon Happiness Scale and the Subjective Happiness Scale. It was applied on service companies295 employees working in Barquisimeto, Venezuela. The scale consists of 27 Likert-type items with five response alternatives. Construct reliability and validity was set through the Cronbach alpha statistic and exploratory factor analysis with the principal component method, and Varimax-type orthogonal rotation prior result of the Kaiser-Meyer-Olkin test. The results obtained through various statistical tests pointed to the adequacy of the happiness scale, its validity and reliability, since the four factors (positive life meaning, satisfaction with life, personal fulfillment and joy for life) explain 90.1% of a worker's happiness. In conclusion, it can be considered that workers expresses full happiness instead of temporary states thereof.

Keywords: Happiness, Realization, Satisfaction.

Resumen

El presente artículo tiene por objetivo obtener indicadores que permitan medir el grado de felicidad para una muestra de trabajadores, a través de la Escala de Felicidad de Alarcón y la Escala de la Felicidad Subjetiva. Se aplicó a 295 em-

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pleados de empresas de servicios que laboran en Barquisimeto, Venezuela. La escala está compuesta por 27 ítems de tipo Likert con cinco alternativas de respuesta. La confiabilidad y validez de constructo en este estudio se estableció por el estadístico alfa de Cronbach y por el análisis factorial exploratorio con el método de componentes principales y rotación ortogonal de tipo Varimax, previo resultado de la prueba de Kaiser-Meyer-Olkin. Como parte de los resultados obtenidos a través de diversas pruebas estadísticas, indicaron que la adecuación de la escala de la felicidad es válida y confiable, ya que los cuatro factores (Sentido positivo de la vida, Satisfacción con la vida; Realización personal y Alegría por la vida), explican un 90.1% la felicidad del trabajador. En conclusión, se puede considerar que el trabajador expresa felicidad plena y no estados temporales de felicidad.

Palabras clave: Alegría, Felicidad, Realización, Satisfacción.

Résumé

L'objectif de cet article est d'obtenir des indicateurs pour mesurer le degré de bonheur d'un échantillon de travailleurs, à travers l'échelle Alarcón Happiness et l'échelle Subjective du Bonheur. Cette preuve a été appliquée à 295 employés de sociétés de services qui travaillent à Barquisimeto, au Venezuela. L'échelle comprend 27 items de type Likert avec cinq alternatives de réponse. La fiabilité et la validité du construit dans cette étude ont été établies par la statistique alpha de Cronbach et par l'analyse factorielle exploratoire avec la méthode des composantes principales et la rotation orthogonale du type Varimax, résultat antérieur du test de Kaiser-Meyer-Olkin. Les résultats obtenus par divers tests statistiques, ont indiqué que la pertinence de l'échelle du bonheur est valide et fiable, puisque les quatre facteurs (sens positif de la vie, satisfaction de la vie, épanouissement personnel et joie de vie), expliquent 90,1% du bonheur du travailleur. En conclusion, on peut considérer que le travailleur exprime un bonheur profond et non des états temporaires de bonheur.

Mots-clés: Joie, Bonheur, Épanouissement, Satisfaction.

1. Introduction

The search for happiness is an important goal to many people. Nevertheless, surprisingly little scientific research has focused on the matter of how happiness is expressed in a workplace context and what can be done to increase happiness at work. This paper deals with knowing how happy the workers of Barquisimeto, Lara State, Venezuela, Service Companies actually are. Thence, it is crucial to discover: What aspects or elements could influence their happiness level? Which are the most important? To what extent and how do these workers express their happiness?

Experts on the field of happiness have managed to identify certain elements that characterize and define it. In this way, it is deemed important to understand happiness on the basis of the study of Lyubomirsky, Sheldon and Schkade (2005), who propose that the happiness of a person is governed by three main factors: one that starts genetically, another stemming from circumstantial factors and, lastly, an attitudinal factor. The genetic factor depends on biological aspects, so 50% of happiness depends on genetic inheritance, which cannot be modified. Circumstances constitute only 10% of the well-being, external circumstances such as the characteristics of the social, working and family environment; and everything that happens unexpectedly in life. The remaining 40% is related to deliberate activity, that is, an important share of happiness depends on the very human being.

Transferring these three factors to the workplace, a challenge is set for managers of organizations to undertake practices that develop pleasant and happy environments, which facilitate action programs to achieve an improvement on the workers' mood, the handling of their emotions and feelings, and their performance thus enjoying a more fulfilling life within and without of work, whereby they would be contributing with that 40% and 10% of the factors that determine happiness.

To this end, in the scientific literature there are studies that demonstrate the existence of a relationship between happiness and the better performance by workers. Luthans and Church (2002), states that people who are satisfied with their lives tend to be satisfied with their work as well. Specifically, the authors note that the higher the level of happiness and positive emotions of workers, the stronger the link between job satisfaction, execution and results. Similarly, Judge and Erez (2007), suggest that a correct combination of emotional stability and extroversion (reflection of a happy personality) leads to much more successful results than the behavior of people with an isolated-type character. So they argue that people who are optimistic, happy and enthusiastic about life, get better returns than sad people.

It is also important to point to research that has demonstrated the relationship between happiness and success in the workplace. Happy people earn more money, display superior performance and carry out more useful deeds when compared to their less happy peers (Lyubomirsky, King and Diener, 2005; Boehm and Lyubomirsky, 2008). Researchers have often assumed that an employee is happy and satisfied because he or she is successful (Lyubomirsky, King et al. 2005; Boehm and Lyubomirsky, 2008). Likewise, there is enough empirical evidence to show that positive aspects of personality, positive organizations and positive behavior bring about benefits for the company (Luthans and Youssef, 2007). In this way, happy people show positive affection and adaptive characteristics, which makes them happier.

Therefore, several scales to assess well-being which associate with the appraisal of happiness are found in the literature. Nonetheless, for this study used the scale elaborated and validated by Alarcón (2006), as it was deemed valid and reliable. This scale seeks to measure out: positive life meaning, satisfaction with life, personal fulfillment and the joy of living; in order to understand the happiness of workers in a sample of 295 employees from 17 service companies located in Barquisimeto, Lara State, Venezuela.

For this line of research, it is essential to examine both individual and environmental aspects as well as working context. However, this study is limited only to the workers' inner aspects, as a first approach to the topic, so as to investigate other variables that explain happiness in the workplace thereafter.

2. Objective

To determine the order of importance of the factors affecting the happiness of individuals in the work context, in order to generate positive behavior proposals for the organizations of Barquisimeto, Lara State, Venezuela.

3. Research questions

What factors affect the happiness of individuals in their work context?

What is the order of importance of the factors that affect the happiness of individuals in their work context?

4. Research hypothesis

 H_i : positive life meaning, satisfaction with life, personal fulfillment and the joy of living are factors that affect the happiness of individuals in their work context.

5. Theoretical framework

5.1. Happiness at work

Happiness at work is a complex and strategic concept within human resource management and strategic management. However, in order to understand the topic, Baker, Greenberg and Hemingway (2006), point out that happiness is an organizational behavior, it is not about emotions and it is the result of a strategic vision. The same authors define a happy organization as that where each individual, at all hierarchical levels, has strengths, does teamwork towards a common goal, obtains satisfaction upon developing new products or services and, through these new products or services, usually provides a positive difference in other people's lives. Fisher (2010) states that the concept of happiness considers dimensions such as participation of professionals with their organization and tasks, job satisfaction and positive commitment to their organization and tasks.

Whereas Hosie, Sevastos and Cooper (2007), as well as Hosie and Sevastos (2009), mention that organizational happiness is a function of affectionate commitment to the organization, in-task welfare, and job satisfaction. On the other hand, Baker et al. (2006), based on case studies, signal that in happy organizations (1) collaborators are more creative and capable of bringing about changes; (2) find themselves oriented towards the "possible" and not only to problem solving; (3) leaders motivate an environment that fosters collaboration, cooperation and the responsibility to innovate; (4) team work and positivism are encouraged and; (5) collaborators try to transform "possibilities" into real solutions that contribute to the sustainability of the organization.

Baker et al. (2006), mention that in a happy organization: professionals are more creative and have more capacity to bring about change; what is "possible" is thought on instead of just solving problems; leaders encourage an environment that fosters collaboration, cooperation and responsibility; teamwork and positivism are promoted; there is commitment from everybody with the vision and mission of the organization; there is a concern about developing activities that contribute to a better life guality; employee energy is observable in verbal and non-verbal communication; there is respect among all employees; the employees confide in each other and the organization; internal communication is used to create a positive attitude; kindness, consideration and generosity are part of the organizational culture; employees are encouraged to take on risks that might bring benefits for the organization; collaborators are committed to disruptive innovation; joy is deemed fundamental for organizational sucess; competition is perceived as important for the growth of employees, but always bearing respect for the other elements of the team; employees are sincere and correct both with clients and colleagues.

The new objective of the millennium is to be happy while working, as Hosie and Sevastos (2009) affirm, in the new millennium happiness at work is presented as an issue of extreme importance. In fact, these authors point out that, in recent years, an explosion of interest in analyzing happiness, optimism and positive character traits has taken place among researchers. The measuring of this state of mind in productive sectors is gaining more strength at an international scale. Thus, some research serving as support to this study are shown below.

5.2. Research on happiness at work and performance

Scientific studies show that happiness predicts important results at multiple domains of life, such as marriage, friendship, work, success, physical and mental health, among others. So happiness has become a topic of interest for many researchers, including those in the workplace field; hence, here are some findings made in this field. For instance, the studies by Lyubomirsky, King *et al.* 2005; Lyubomirsky, Sheldon et al. 2005; Boehm and Lyubomirsky (2008) account for the relationship between happiness and success, psychological capital and satisfaction, productivity and performance at work, as well as for perceptions of work and well-being.

Lyubomirsky, King et al. (2005), suggest a conceptual model for the happiness-success relationship, arguing that this relationship exists not only because success makes people happy, but also because the positive effect begets success. Statistical tests (cross sectional, longitudinal and experimental evidence) are performed to test it, and the results reveal that happiness is associated with and precedes numerous successful outcomes. In addition, the evidence suggests that positive affection may be the cause of many desirable characteristics, resources and successes. Notwithstanding, this study makes it clear that, at the same time, happy people are able to react with negative emotions when it is appropriate to do so.

The relevance of this study needs to be considered when its findings contradict the belief that successful results and positive emotions are the main causes, rather than consequence, of happiness. Following this train of thought, the study by Boehm and Lyubomirsky (2008) continues to be dug into, whom also work on the hypothesis that happiness is a reason why some employees are more successful than others. To that end, upon the evidence of three types of cross-sectional, longitudinal and experimental studies, the authors consider the relationship between happiness and labor results. The authors suggest that happiness is not only correlated with success in the workplace, but happiness often precedes success measures, and also inducting positive affection leads to better results in the workplace. However, such evidence is unable to demonstrate a causal connection. For instance, researchers cannot unravel whether happiness leads people to acquire jobs of greater autonomy or if greater autonomy makes people happy.

Therefore, they suggest considering a wider range of cultures before these results may be deemed representative of a broad spectrum of people. In addition, they point out that it is interesting to recognize that happiness is not the only resource capable of bringing success, due to the existence of other resources such as intelligence, wealth, connections and perseverance, which undoubtedly also play a role in the success of employees' careers. In the same way, the results obtained do not intend to suggest that unhappy people cannot enjoy enormous professional success. There are many people who are unhappy or dysphoric but turn out to be leaders within their fields.

Other empirical studies support the relationship between happiness and performance at work as well; Pryce-Jones (2010) makes a correlation between happiness and other measures utilized in the workplace. The author points out that the subjective reports on happiness correlated with the following three behavioral measures: (1) Working more discretionary hours; (2) Taking less sick leave; and (3) Staying longer at work. In his study, this author, gathered information through extensive discussion groups and personal interviews to over 80 people, covering a variety of cultures and industries, and obtaining as a result that happiness at work was highly correlated with what that the author called the "C's": Contribution: the effort that is made: Conviction: the motivation that is had; Culture: how good it feels to be working; Commitment: the extent to which a person is committed: and Confidence: that one had on oneself and one's work.

Hosie *et al.* (2007), in a research project involving 400 professionals in Australia, sought to link happier employees and greater productivity. The authors consider as their theoretical model "the happy productive worker thesis" developed by Staw (1986). The model taken into account dimensions that appraise professional happiness, such as personal characteristics, in-task characteristics, setting of objectives, workflow, balance between work and family and job satisfaction. The authors conclude that there is a positive correlation between organizational performance and happier employees. It is verified that compensation is not the most important factor for a professional to feel happy. In fact, recognition, the possibility of personal and professional development and internal environment are more important.

It is important to point out, following this line of argument, the works of Wright, Cropazano and Bonett (2007a), who examine the relationships between psychological well-being, job satisfaction and job performance with employee turnover. Using a sample of 112 managers employed in a large organization in the West Coast of the United States, and controlling for age, gender, ethnicity and job performance, well-being and job satisfaction predicted turnover non-additively. Welfare was found to moderate the relationship between job satisfaction and separation from employment; thus, job satisfaction is strongly (and negatively) related to staff turnover when welfare is low.

Similarly, at another study developed by Wright, Cropazano and Bonett (2007b), the authors found that satisfaction at work (r= 0.36, p <0.01, 95% CI= 0.18 to 0.52) and psychological well-being (r = 0.43, p <0.01, 95% CI = 0.26-0.58) were associated with higher scoring performance.

On the other hand, Luthans and Youssef (2007), examine positive aspects (Big Five personality, basic self-assessments and strengths of character and psychological capital), positive organizations and positive behavior (courageous organizational citizenship and action based on principles), showing that positive organizational behavior can contribute between 4% and 15% to job performance variation. The authors also made some calculations to demonstrate the economic impact of their results on the companies where the research was conducted, thus reaching the conclusion that the usefulness of individual positive psychology generates benefits for companies.

Along this line of thought, management actions and practices can affect the working conditions for employees and their perceptions on these conditions, thus improving key results at the organizational level. Therefore, the perception of working conditions also turn into an interesting field of study, since it seeks to draw attention to the best way to manage people to obtain the desired results. In this vein, Harter, Schmidt, Asplund, Killham and Agrawal (2010), point out that perceptions of working conditions have proven to be important for the welfare of workers. These results are known to be correlated with the attitudes of the employees and perceptions on working conditions, but research on the direction of the causality in their studies has not been conclusive. By using an extensive longitudinal database including 2,178 business units within 10 large organizations, the authors found evidence supporting the causal impact of employee perceptions on these measures; reverse causality of measures on employee perceptions existed, but it was weaker.

As indicated by López and Fierro (2015), it is necessary to understand what the causes that promote happiness in employees of an organization are in order to design policies and programs aimed at maximizing emplovee welfare. Their study was based on identifying the main causes that make happiness levels vary between one individual and another by considering, as a research ground, the population of pharmacy managers from Ecuador. It was based on a survey applied to 265 managers nationwide. As a conclusion, demographic aspects such as age, gender, distance to work, city or the time working at the company do not substantially affect happiness. Nonetheless, factors such as psychological well-being, happiness at work and work-personal life balance have a high influence when measuring subjective well-being. Therefore, the most influential determining factor in the happiness of managers is psychological well-being.

6. Methodology

Methodologically, this research is the outcome of a fieldwork carried out through visiting 17 service companies located in Barquisimeto, Venezuela, and applying a total of 295 surveys to the same number of employees. The information was gathered in a specific time frame during 2015, which implies that it was a cross-sectional research, since the description of the phenomenon under study corresponds to the situation experienced by employees at said companies throughout that period.

Likewise, it was of non-experimental type, since the object under study is only being described without intervening or modifying the variables involved. In order to meet the objective of the study, a quantitative, documentary and field approach research was designed. From the latter, data was collected from 295 employees at 17 service companies located in Barquisimeto, Venezuela, which were obtained through the questionnaire already validated by Alarcón (2006), with a five-point Likert-type Lima happiness scale. In the questionnaire, an additional question was included to measure workers' happiness and integrating the four factors or dimensions, as well as the subjective happiness scale by Lyubomirsky and Lepper (1999), which consists of 5 items with a Likert-type response; its correction is made by adding the scores obtained and dividing them by the total number of items (Lyubomirsky and Lepper, 1999). The information gathered was transformed into numerical variables by using the SPSS v.23 software.

6.1. Participants

The sample consists of 295 employees from 17 service companies located in Barquisimeto, Lara state, Venezuela, with a confidence level of 95% and an error margin of \pm 5%. To pick the aforementioned sample, a probabilistic random sampling proceeded, where all employees in all companies had the same chance of being picked.

The average age of the participants in this study was 30.11 years, with a standard deviation equal to \pm 8.596. 57.3% are women and 42.7% are men. It may be appreciated that a strong percentage of the respondents have technical studies representing 36.9%, while 20% have a BA in administration and 10% are engineers. It can be noted that 32.9% of respondents do not have a major.

Similarly, it can be seen that positions within the companies are distributed and occupied as follows: 60% by operational positions, 30.8% by middle managers and 9.2% by managerial positions.

6.2. Instruments

The Lima Happiness Scale was used; elaborated and validated by Alarcón (2006). This scale consists of 27 questions with five Likert-type response alternatives: strongly agree, agree, neither agree nor disagree, disagree and strongly disagree.

The author has also determined, through

factorial analysis, 4 happiness factors: factor 1 refers to positive life meaning (α =0.88); factor 2 to satisfaction with life (α =0.79); the factor 3 to personal accomplishment (α =0.76); and factor 4 refers to the joy of living (α =0.72) (Arias, Caycho, Ventura, Maquera, Ramírez, and Tamayo, 2016).

7. Results

7.1 Reliability and validity analysis

A reliability analysis was carried out through the Cronbach's alpha statistic for each of the 27 items making up the dimensions of the Lima Happiness Scale, with the intention of measuring the average inter-item correlation; as well as the total Cronbach's alpha per dimension of the questionnaire applied.

The internal consistency method based on Cronbach's alpha allows estimating the reliability of a measurement instrument, through a set of items expected to measure the construct or theoretical dimension thereof. Table 1 shows the inter-item correlations per dimension, where it can be seen that the interval ranges between 0.442 and 0.376, values considered as good (Merino, Navarro and García, 2014).

Table 1. Correlation between dimensions and the instrument's Cronbach's alpha

Dimension	N° of items	r ii	Cronbach's alpha (α)
F1	11	0.412	0.885
F2	6	0.442	0.826
F3	6	0.376	0.783
F4	4	0.424	0.747

rii: average inter-item correlation. F1: positive life meaning; F2: Satisfaction with life; F3: Self-fulfillment; F4: Joy of living.

Source: Author's own elaboration, based on the data processed by SPSS, v23.

For construct validity, exploratory factor analysis (EFA) was used since it largely incorporates aspect, content, criterion -concurrent and predictive- analysis, and its ideal for questionnaires assessment (Batista, Coenders and Alonso, 2004).

The EFA indicated that the Keizer-Meyer-Olkin (KMO) sample adequacy test obtained a value of 0.902, which may be considered as very high (Kaiser, 1974). Furthermore, Bartlett's sphericity test was significant ($\chi 2$ = 3543.500, gl = 351, p <0.000). These findings indicated that it is possible to perform a confirmatory factorial analysis (CFA) (Kaplan and Saccuzzo, 2006).

Table 2 displays the total variance as explained by the three determining factors, based on auto values equal to 1; however, the five factors resulting from the statistical test are presented. The three factors explain 43.109% of the total variance of the database. The first factor explains the highest percentage of the variance (32.405%); the second factor 6.794% and the third one 3.909%.

Table 2. Total variance explained by the factors
and/or components of the test

	Sums of saturations to the square of the extraction				
Factors					
	Total	% of variance	% accumulated		
F1	8.749	32.405	32.405		
F2	1.835	6.794	39.200		
F3	1.055	3.909	43.109		
F4	0.773	2.863	45.971		
F5	0.669	2.478	48.450		
Extraction	method: M	lain axis factoring.			

xtraction method: Main axis factoring.

Source: Author's own elaboration, based on the data processed by SPSS, v23.

In Table 3, the components and their respective items resulting from the EFA are appreciated. Thus, Component 1 loaded items: 10, 8, 4, 7, 11, 9, 1, 2, 5, 6, 16, 14, 17, 12, 18, 15, 13, 19, 22, 25, 27; Component 2) loaded items: 20, 21, 23; Component 3 loaded items: 26 and 24; and Component 4 loaded item: 3.

Based on the above information, three factors or dimensions could be thought to explain the greater variance of the data;

Items	Components					
	1	2	3	4		
Item 10. I think that life was made to be happy	.567					
Item 8. Life has been good to me	.739					
Item 4. To me life is an opportunity to be happy	.600					
ltem 7. I feel as a successful person	.620					
ltem 11 I feel useful	.548					
Item 9. Most of the time I feel happy	.613					
Item 1 I have found meaning in my existence	.727					
Item 2. Happiness is for everyone, and not a privilege for some people	.586					
Item 5. I feel happy and satisfied with what I am	.629					
Item 6. I feel that my life is full of enthusiasm and illusions	.658					
Item 16. I feel satisfied with what I am	.631					
tem 14. Life has been good to me	.659					
tem 17. I feel satisfied because I am where I should be	.658					
tem 12. I'm satisfied with my life	.543					
tem 18. I consider myself a self-fulfilled person	.621					
tem 15. In most things, my life is close to my ideals	.571					
tem 13. The conditions of my life are excellent	.634					
tem 19. I am satisfied with what I have done so far	.607					
tem 22. If I were to be born again, I would change almost nothing about me	.628					
item 20 I think I do not lack anything		.519				
tem 21 My life passes peacefully		.557				
tem 23. Thus far I have achieved the things that are important to me		.426				
tem 3. I have no problems taking away my peacefulness				.687		
tem 26. I have experienced the joy of living			.546			
tem 24. It's wonderful to live			.548			
tem 25 I am an optimistic person	.610					
tem 27. Usually, I feel good	.605					
Extraction method: Main axis factoring.						

Table 3. Exploratory factorial analysis (component matrix) for the instrument

Source: Author's own elaboration, based on the data processed by SPSS, v23.

however, in Table 4, a confirmatory factorial analysis (CFA) is shown, which indicates that the 27 items of the test load on four dimensions or factors that explain 53.527% of the total variance.

The CAF confirmed it is four factors or

dimensions which load into the instrument. Table 5, shows the matrix of rotated components and their respective items, which can be grouped and named as follows: Component 1 (positive life meaning, items: 10, 11, 4, 8, 7, 2, 9, 6, 5, 1, 3; Component 2 (Satisfaction with life), items: 12, 16, 17, 14, 18, 15, 13, 19,

	Sums of rotation of squared charges					
Component						
	Total	% variance	% accumulated			
1	4.740	17.554	17.554			
2	4.559	16.885	34.439			
3	2.606	9.653	44.092			
4	2.548	9.435	53.527			

Table 4. Total explained variance of the loadsrotated to the square

Extraction method: main components Analysis.

Source: Author's own elaboration, based on the data processed by SPSS, v23.

Table 5. Confirmatory factorial analysis

Items		Components		
	1	2	3	Ļ
Item 10. I think that life was made to be happy	.673			
ltem 11 I feel useful	.671			
Item 4. To me life is an opportunity to be happy	.655			
Item 8. Life has been good to me	.653			
item 7. I feel as a successful person	.645			
tem 2. Happiness is for everyone, and not a privilege for some people	.616			
tem 9. Most of the time I feel happy	.616			
tem 6. I feel that my life is full of enthusiasm and illusions	.581			
tem 5. I feel happy and satisfied with what I am	.577			
tem 1 I have found meaning in my existence	.543			
(tem 12. I'm satisfied with my life		.705		
tem 16. I feel satisfied with what I am		.699		
tem 17. I feel satisfied because I am where I should be		.680		
tem 14. Life has been good to me		.674		
Item 18. I consider myself a self-fulfilled person		.626		
tem 15. In most things, my life is close to my ideals		.569		
tem 13. The conditions of my life are excellent		.547		
tem 19. I am satisfied with what I have done so far		.543		
tem 22. If I were to be born again, I would change almost nothing about me		.441		
tem 26. I have experienced the joy of living		.732		
(tem 24. It's wonderful to live		.699		
Extraction method: main components Analysis. Rotation method: Varimax with	Kaiser norm	alization.		

Source: Author's own elaboration, based on the data processed by SPSS, v23.

Items		Components 1 2 3 .571 .537 .715		
	1	2	3	4
Item 25 I am an optimistic person	.571			
Item 27. Usually, I feel good		.537		
Item 20 I think I do not lack anything			.715	
Item 21 My life passes peacefully			.667	
Item 3. I have no problems taking away my peacefulness	.484			
Item 23. Thus far I have achieved the things that are important to me			.524	

Table 5. Confirmatory factorial analysis (Continuation)

Extraction method: main components Analysis. Rotation method: Varimax with Kaiser normalization.

Source: Author's own elaboration, based on the data processed by SPSS, v23.

Table 6. Pearson's correlation analysis between the dimensions of happiness

		Dimension: Life Sense	Dimension: Satisfaction with life	Dimension: self-fulfillment	Dimension: Joy of living
Dimension: Life Sense	Pearson's correlation	1			
	Sig. (bilateral)				
	Ν	295			
Dimension: Satisfaction	Pearson's correlation	.556**	1		
with life	Sig. (bilateral)	.000			
	Ν	295	295		
Dimension: self-fulfill-	Pearson's correlation	.453**	.621**	1	
ment	Sig. (bilateral)	.000	.000		
	Ν	295	295	295	
Dimension: Joy of living	Pearson's correlation	.541**	.462**	.492**	1
	Sig. (bilateral)	.000	.000	.000	
	Ν	295	295	295	295

** The correlation is significant at the 0.01 level (bilateral).

Source: Author's own elaboration, based on the data processed by SPSS, v23.

22; Component 3 (Joy of living), items: 26, 24, 25, 27 and; Component 4 (Personal self-fulfulment), items: 20, 21, 23.

Likewise, a correlation analysis between the four factors or dimensions of the Happiness Scale was carried out, where it may be noted that there are positive and statistically significant correlations between them. In Table 6, the correlations by dimension are shown, being: satisfaction with life and meaning of life (r = 0.556, p = 0.01); self-fulfillment and meaning of life (r = 0.453, p = 0.01); joy of living and meaning of life (r = 0.541, p = 0.01); self-fulfillment and life satisfaction (r = 0.621, p = 0.01); joy of living and satisfaction with life (r = 0.462, p = 0.01) and, lastly, self-fulfillment is positively associated with joy of living (r = 0.492, p = 0.01).

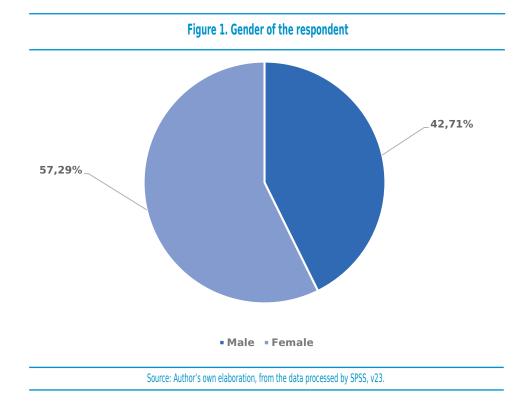


Table 7. Sample's age range						
Age range	Frequency	Percentage				
From 18 to 22 years old	34	11.5				
From 23 to 30 years old	149	50.5				
From 31 to 39 years old	68	23.1				
Over 39 years old	44	14.9				
Total	295	100.0				

Source: Author's own elaboration, from the data processed by SPSS, v23.

7.2. Descriptive analysis of the sample

Firstly, the sample was analyzed in terms of its composition by gender and age, and the following information was found. Table 7 shows the age ranges of the respondents, with a mean of 30.1 years, while Figure 1 indicates that 42.7% are men and 57.3% are women.

7.3. Multiple linear regression analysis

As part of this research study, multiple linear regression was performed through the "successive steps" method in SPSS, v.23. In a first approximation, all independent variables were considered in connection to the dependent variable: happiness; as well as the gender and age variables, which intended to find some direct relationship between these two variables and workers' subjective happiness. This analysis was carried out by correlating the four dimensions of the Alarcon's Happiness Scale with the Subjective Happiness Scale by Lyubomirsky and Lepper (1999).

Table 8 shows the outcome of the model generated after applying the successive steps method as a multiple linear regression option in the SPSS v.23 statistical software, where Pearson's linear correlation coefficient is detailed (R) with a value of 0.949 and the one of determination (R^2), as well as the statistics of change and the Durbin-Watson test.

The four models are observed to have been generated by the method described above; however, the most significant one consider is model 4 as it considers the largest number of independent variables, which generates an R² equal to 0.901, which means that the model's goodness of fit is sufficient, since the independent variables introduced and considered into the regression model, through the successive steps method in SPSS, explain 90.1% of the variability in the happiness of workers

					Cha	nge statistics	Durbin-Watson		
Model	R	R ²	R ² corrected	Standard error of the estimate	Change in R²	Change in F	gl1	gl2	Sig. Change in F
1	.696ª	.484	.482	.16945	.484	275.014	1	293	.000
2	.823 ^b	.678	.676	.13414	.194	175.593	1	292	.000
3	.911°	.829	.827	.09784	.151	257.876	1	291	.000
4	$.949^{d}$.901	.900	.07460	.072	210.532	1	290	.000

Table 8. Multiple linear regression model summarization

Source: Author's own elaboration, from the data processed by SPSS, v23.

Table 9. ANOVA of the multiple linear regression model summarization

Model	Sum of squares	gl	Quadratic Mean	F	Sig.
Regression	14.696	4	3.674	660.205	.000 ^e
Residual	1.614	290	.006		
Total	16.310	294			

Source: Author's own elaboration, from the data processed by SPSS, v23.

Table 10. Regression coefficients for all the introduced factors

Model	Non-standardized coefficients		Typified coefficients	t	Sig.	Collinearity statistics	
	В	Stan- dard error	Beta			Tolerance	IVF
(Constant) Self-fulfillment Positive meaning of life Satisfaction with life Joy of living	3.582 .208 .346 .198 .145	.016 .009 .010 .010 .010	.578 .805 .509 .339	220.115 23.388 33.379 19.800 14.510	.000 .000 .000 .000 .000	.559 .586 .516 .627	1.788 1.705 1.938 1.596

Dependent variable: Happiness within individuals.

Source: Author's own elaboration, from the data processed by SPSS, v23.

at service companies of Barquisimeto, Lara State, Venezuela.

With the value obtained from the Durbin-Watson statistic equaling 1.846, it can be assumed that the self-correlation among the residuals is zero or non-existent, since it is in the range of 1.82 and 2.18, with a significance level of 5% (Rositas, 2014).

To know the significance of the independent variables with regards to happiness at work as a dependent variable, t-scores were analyzed per coefficient from the total considered variables for the multiple linear regression model. The results showed that the four variables or factors of the instrument (Lima Happiness Scale) contribute significantly to the generated model.

Therefore, the significant results were for the variables or factors: positive life meaning (F_1) , satisfaction with life (F_2) , self-fulfillment (F_3) , joy of life (F_4) , as well as for the regression constant, since the critical level value was *Sig.* <0.05.

			Proportions of the variance						
Dimension Self	Self values	Condition index	(Constant)	Self-fulfillment	Meaning of life	Satisfaction with life	Joy of living		
1 4	4.786	1.000	.00	.00	.00	.00	.00		
2 .	.067	8.453	.15	.13	.24	.07	.40		
3.	.058	9.046	.41	.00	.26	.22	.24		
4 .	.054	9.451	.42	.21	.32	.03	.27		
5.	.035	11.737	.02	.65	.19	.67	.09		

Table 11. Collinearity indexes between factors

Table 9 shows the summary of the ANO-VA from the multiple linear regression model, which indicates whether there is a significant relationship between the variables or not. Statistic F (660.225) allows to test the null hypothesis of the population value of R being zero, which approves the existence of a linear relationship between the dependent variable and the independent variables that turned out significant.

The critical level value Sig = 0.000v indicates that the variables are linearly related, namely, the regression model is statistically significant, which indicates that the variability observed is not due to chance. A certain association between the independent variables and the dependent variable may be assumed to exist.

Table 10 allows to explain and analyze the t-scores per factor from the Lima Happiness Scale, which was used as part of the instrument applied and were introduced into the multiple linear regression model.

By this analysis, it's possible to respond to the research question formulated for this study, which allows to answer that the four analyzed factors turned out to be significant to explain individuals' happiness. Furthermore, the order of importance of the factors is: positive life meaning (F_1), with an absolute value in its standardized coefficient of 0.805; self-fulfillment (F_3) with a coefficient of 0.578; followed by the satisfaction with life factor (F_2) with a coefficient of 0.509 and, lastly, the factor joy with life (F_4) with a coefficient of 0.339. With respect to the non-standardized coefficients from the regression model and their relative significance regarding the independent variables, they contain the factors that define the regression equation in direct scores. The coefficient corresponding to the Constant is the one that has been called β_0 , whereas the coefficients for positive life meaning (F₁), satisfaction with life (F₂), self-fulfillment (F₃), happiness with live (F₄), equal β_1 , β_2 , β_3 and β_4 , respectively.

In Table 10 the collinearity statistics are analyzed, which indicated that there are no multicollinearity issues between the factors and/or independent variables F_1 , $F_2 F_3$ and F_4 , since the values of the variance inflation factor (VIF) are lower than 10 and close to 2; that is, values between 1.596 and 1.938 turned out, while all tolerance values (T) were greater than 0.10.

The foregoing is reinforced with what is shown in Table 11, where the multicollinearity condition index generated for the factors and/or significant variables turned out with values lower than 20, which indicates that there are no multicollinearity issues among the F_1 , F_2 , F_3 and F_4 factors.

According to the coefficients of the multiple linear regression model obtained, it was possible to propose the regression equation according to the order of relative importance in the model, as shown by Formulas 1a and 1b.

Y = β0 + β1 F1 + β2 F2 + β3 F3 + β4 F4 + ε(1a)

Y = 3.582 + 0.346 (F1) + 0.208 (F3) + 0.198 (F2) + 0.145 (F4) (1b)

Where:

Y = Happiness of the worker

B0 = Model constant

 β 1, β 2, β 3, β 4 = Betas of the model

F1 = Positive meaning of life

F2 = Satisfaction with life

F3= self-fulfillment

F4 = Joy of living

 $\epsilon = Error or residual$

The regression equation means that, at a value of one in positive meaning of life and keeping the rest of the factors constant, individuals' happiness level at work will be one of very satisfied with their happiness state, which verifies that the factor described above is the most important and most contributing in explaining happiness with a 80.5%.

Lastly, we can return to the research hypothesis formulated for this study, which is accepted, since the four factors turned out to be significant and valid to measure workers' scale of subjective happiness according to the t-scores and the level of sig. <0.005, for each of them.

8. Conclusions

Being happy is a personal decision, and a challenge for organizations to motivate and create a positive culture based on values and gratitude to everything that is held and received, linked to the growth of workers and balance between personal life, family and work.

The correlation between workers' scale of subjective happiness and the four factors that measure it is very strong; i.e., positive meaning of life (F_1), satisfaction with life (F_2), self-fulfillment (F_3), joy of living (F_4) explain in 90.1% the happiness of workers at service companies in Barquisimeto, Venezuela.

The multiple regression analysis permits a first approximation to workers' happiness levels in labor contexts within service companies of Barquisimeto, Venezuela, from the perspective of the four factors that were measured plus the subjective happiness scale. In the first place, the most important factor for the happiness of a worker is his positive meaning of life (F_1), whence may be inferred that there are no depressive states, pessimism and existential vacuum in the worker.

The next factor that was significant in order of importance was self-fulfillment (F_3), which suggests that a worker expresses full happiness and not temporary states of happiness. The satisfaction with life factor (F_2), infers that a worker is satisfied with possessing the desired material goods, and the last factor in order of importance for the worker's happiness was the joy of living (F_4), which tells how wonderful life is; as well as the positive life experiences and usually feeling well.

Based on the foregoing, the evidence points out the adequacy of the subjective happiness scale with the four dimensions of Alarcon's Happiness, to be used in research in various groups as a reliable and valid measure to study happiness. Furthermore, positive aspects from the workers' personality are demonstrated to affect happiness thereof, thus concluding that happy people show a positive affection and adaptive characteristics in the organizations or companies where they work.

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