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## Investigating Factors Influencing the Implementation of ISO9000 Quality Management System

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#### Abstract:

Nowadays acquisition and preservation of customer satisfaction is the most reliable factor for the continuous participation of companies in domestic and foreign markets. Quality is dependent on the needs and expectations of the customer on a permanent revision and evolution. Therefore, it is necessary to take the necessary measures to ensure long-term customer confidence and trust. ISO standards 9000 as the quality system standards, on the one hand, provide the basis for quality improvement and, on the other hand, provide for all stakeholders the confidence that the supplier performs in accordance with what he claims to be. In the present study, the full introduction of the ISO 9000 standards and the A The elements that comprise these standards are described. First, by providing a pair comparison questionnaire and obtaining information from ten experts at the Pars Damavand Asphalt Factory, a multi-criteria AHP decision-making technique improved the criteria for ranking the criteria and the sub criteria. The results of the research show that The operating and operating factors of the organizational structure, with weights of 0.31, 0.24, are considered to be the most effective factor in the implementation of ISO 9000 in the asphalt factory. And values and personnel factors were ranked 0.07%, 0.06%, in the final priorities. Finally, based on the results of the research, suggestions were made to improve the quality of performance through the quality assurance system and the long-term goals of the company. It turned out

Key words: ISO 9000, Improved AHP, Management, Organizational Structure, Values

#### Statement of the problem

In recent years, the world's largest companies have implemented ISO9001: 2000 quality management system in order to compete in the international markets and to reduce production costs, reduce redoing, reduce waste and raise profits, and increase customer satisfaction. Given the quality at this time when required for company products, the ISO9001 as a quality system can help organizations deliver better products. ISO (International Organization for Standardization), a global federation of national standard institutions (ISO entities). The work of preparing national standards is usually made up of ISO technical teams. The ISO9001 quality system requirements have 20 mandates that direct a good quality system. Adoption of a quality management system in the organization should be a strategic decision and the design and deployment of a quality management system in an organization affected by business environment, changes its environment, or the risks associated with that environment, specific goals and products, processes used The export status and the size and organizational structure of it, and the purpose of this standard is not to create

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uniformity in the structure of quality management systems or uniformity in the documentation, but to follow the company's approach to meeting the demands of customers. The basic issue that has been addressed in this study is the entry of Iranian products into overseas markets and increased competition for expansion of markets, which the IS09001 quality management system can provide valuable assistance in this regard, considering that The quality and price of products in the eyes of the customer today and world markets, paying attention to the system that is an effective tool in the long run, will boost the growth of Iranian companies. Unfortunately, the time has come for the implementation of this system to be difficult and in most cases this system has not been effective or Iranian organizations have not been able to keep it and then have lost their certification time. The study attempts to identify the factors that contribute to the failure of the ISO9001 implementation, and the results of such a study may highlight existing deficiencies, shortcomings fundamental problems, and serve as useful guidance for consultants, managers, auditors, and Experts are quality assurance. Due to the problems, factors such as market policies, values, organizational structure, management, staffing, and customer orientation have been studied in this project. The Damavand asphalt plant as one of The largest asphalt plants in the east of Tehran play a significant role in providing asphalt to the eastern roads Tehran and Mazandaran, but unfortunately, because of the lack of ISO standards, it has always been costly to road construction projects due to the low quality and low costs of the project. Therefore, this study seeks to examine the infrastructure required for the implementation and deployment of the ISO scale step To

improve the quality of the Damavand asphalt production plant.

#### The necessity and importance of research

Today's standards of "Jahrvah" not only focus on qualitative standards, but also on management criteria to reduce costs and avoid spending unnecessary expenses and in other words "productivity."

Observance of the standard terms and conditions in terms of qualitative supervision and quality management set forth in the ISO 9000 series standards are of particular interest in increasing the productivity of the units.

In such standards, the management of economic units must be geared not only to the quality, quality of goods, but also to the cost of production, in order to achieve competitive prices in global markets.

The growth of the productivity of economic units causes the unnecessary costs (in terms of material supply, maintenance machinery, manpower, etc.) as much as possible and, finally, eliminated. Optimal production of resources (labor, land, capital, Equipment and machinery ...) will reduce the price of finished goods or services and reduce the amount of waste in accordance with production standards to a significant extent. Therefore, one of the advantages of observing the principles and standards of standard economic units. increase Productivity. Therefore, it is imperative that economic enterprises succeed in the field of competition The world gradually reaches the ISO 9000 series standards, and in particular the ISO 9001 standard. which provides comprehensive quality control, as all economic sectors can achieve ISO 9000 standards, macroeconomic

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savings result from the optimal use of production, growth, Exports and strengthening of the competitiveness of units in global markets can be achieved, and the national economy can be achieved, and in this regard, the national economy can achieve sustainable growth and development.

These standards cover almost all technology related issues, as well as help build and deliver more effective, safer and more healthful goods and services. The standards (ISO) of commerce and trade between the countries make it easier and more correct and, in general, support consumers of goods and services and make their lives easier. In other words, the measures (ISO) resulting from international agreements are ultimately published in the form of international standards

#### research method

After determining and determining the subject of the research, the researcher should consider the choice of research method. The choice of the research methodology depends on the characteristics of the topic, the scope of the scope and scope of the research topic, how to select the method, how to collect the

information, how to use statistical methods to examine the information, ethical and human standards observing the subject of the research. In other words, the purpose of choosing a research method is to identify the method and method that the researcher will take to make him as accurate, easier, faster as possible to get answers or answers to questions or research questions.

The present research, in terms of the type and purpose of the research, considering that the results are tangible and practical, is an applied research. From another perspective, considering that the researcher attempted to state the status of the research variables from the language of the studied statistical society, without any changes, the research Descriptive-survey.

#### **Ranking of the Six ISO Standards:**

In this section, the main criteria for the ISO 9000 research, which include: Market policies (B), Values (V, Management domain) (M, Personnel area P), Customer area (C, Sector structure (S), Priority It will be listed.

**Table 1: Paired Comparisons of Indicators** 

row	state	dominant	Recessed	equal
1	BV	4	5	1
2	BS	2	7	1
3	BM	2	8	
4	BP	7	3	
5	BC	2	7	1
6	VS	2	8	
7	VM	3	7	

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8	VP	6	3	1
9	VC	1	9	
10	SM	3	7	
11	SP	6	3	1
12	SC	7	3	
13	MP	7	2	1
14	MC	7	3	
15	PC	2	7	1

**Table 2: Paired Comparisons** 

	В	V	S	M	P	C
В	1	4.5 5.5	$\frac{2}{7}$	$\frac{2}{8}$	$\frac{7}{3}$	2.5 7.5
V	<u>5.5</u> 4.5	1	$\frac{2}{8}$	<u>3</u> 7	6.5 3.5	<u>1</u> 9
S	$\frac{7}{2}$	8 2	1	<u>3</u> 7	<u>6.5</u> 3.5	<del>7</del> <del>3</del>
M	8 2	7/3	7/3	1	7.5 2.5	<u>7</u> 3
P	<u>3</u> 7	<u>5.</u> 6.5	3.5 6.5	2.5 7.5	1	2.5 7.5
С	7.5 2.5	<u>9</u> 1	<u>3</u> 7	$\frac{3}{7}$	7.5 2.5	1

Wi	weights	
W1	0.597397	
W2	0.547797	
W3	1.72119	
W4	2.311277	
W5	0.489796	
W6	1.568274	

مسلمساء	Normalized	
criteria	weights	
В	0.082562062	
V	0.07570717	
S	0.23787376	
M	0.319425497	
P	0.067691269	



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C 0.216740242

#### P<V<B<C<S<M

In other words, the criterion of management was ranked first and the domain of the second ranking and the customer-centered circuit in the third rank, and the areas of values and personnel were ranked fifth and sixth respectively, respectively.

Prioritizing the factors affecting the implementation of ISO 9000 through the use of scores derived from the criteria and indicators (sub-criteria)

Level 1	score	Level2	Score2	Score of 2 levels
The field of market				
policies	0,082562062	B1	0,192388744	0,015884011
The field of market				
policies	0,082562062	B2	0,292811835	0,024175149
The field of market				
policies	0,082562062	В3	0,258713781	0,021359943
The field of market				
policies	0,082562062	B4	0,25608564	0,021142959
Domain of values	0,07570717	V1	0,185380683	0,014034647
Domain of values	0,07570717	V2	0,218766057	0,016562159
Domain of values	0,07570717	V3	0,219228616	0,016597178
Domain of values				
Domain of values	0,07570717	V4	0,115927054	0,008776509
	0,07570717	V5	0,26069759	0,019736677
The scope of				
organizational structure	0,23787376	<b>S</b> 1	0,268479486	0,063864225
The scope of				
organizational structure	0.22797276	S2	0.224400222	0.055791225
The scope of	0,23787376 0,23787376	\$2 \$3	0,234499322 0,203975221	0,055781235 0,048520353
The scope of	0,23/8/3/6	33	0,203973221	0,048520555



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organizational structure				
The scope of				
organizational structure				
	0,23787376	S4	0,173132386	0,041183652
The scope of				
organizational structure	0,23787376	S5	0,119913585	0,028524295
Management area		2.61		
Managamentana	0,319425497	M1	0,186608997	0,059607671
Management area	0,319425497	M2	0,13871621	0,044309494
Management area				
N/	0,319425497	M3	0,211203757	0,067463865
Management area	0,319425497	M4	0,220034032	0,07028448
Management area				
D 1	0,319425497	M5	0,243437005	0,077759986
Personnel area	0,067691269	P1	0,204780544	0,013861855
Personnel area				
	0,067691269	P2	0,209283906	0,014166693
Personnel area	0,067691269	P3	0,231610715	0,015678023
Personnel area	0,067691269	P4	0,354324835	0,023984698
Customer Domain	0,007071207	17	0,334324033	0,023704070
Customer Bomani	0,216740242	C1	0,298172478	0,064625975
Customer Domain	0,216740242	C2	0,183631621	0,039800362
Customer Domain	0,210710212		0,102021021	3,027000202
	0,216740242	C3	0,083319527	0,018058695
Customer Domain	0,216740242	C4	0,178580318	0,038705541
Customer Domain	0,216740242	C5	0,256296055	0,055549669

factors	scores	rank
M5	0,07776	1
M4	0,070284	2
M3	0,067464	3
C1	0,064626	4
<b>S</b> 1	0,063864	5
M1	0,059608	6



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S2	0,055781	7
C5	0,05555	8
<b>S</b> 3	0,04852	9
M2	0,044309	10
S4	0,041184	11
C2	0,0398	12
C4	0,038706	13
S5	0,028524	14
B2	0,024175	15
P4	0,023985	16
В3	0,02136	17
B4	0,021143	18
V5	0,019737	19
C3	0,018059	20
V3	0,016597	21
V2	0,016562	22
B1	0,015884	23
P3	0,015678	24
P2	0,014167	25
V1	0,014035	26
P1	0,013862	27
V4	0,008777	28

As the criteria were prioritized, management and structure criteria were ranked high and value criteria and personnel were ranked below. In the ranking of the sub criteria, the first three positions of the table were the management components and positions Next, the table was assigned structural components, and the components of value criteria and personnel were ranked below the table.

#### **Analysis of the results:**

.Results of testing the first hypothesis (management factor)

According to the analysis (W = 0.319425497), the management factor has been recognized as the most effective factor in implementing ISO 9000 in the asphalt plant, which indicates that support for senior executives and participation in meetings and in particular management review sessions Creating teamwork culture, increasing the counseling spirit, and promoting problem-solving groups are part of the tasks that senior plant managers can make by creating an effective portfolio management system in their organization and continually improving their organizations.

Results of the second hypothesis test (organizational structure factor:(

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According to the results of the analysis (W = 0.23787376), the organizational structure is the most influential factor implementation of the ISO 9000. Organizations create approved institutional organizational structure using descriptions of tasks, descriptions The authority and authority of the personnel, and also the establishment of specific relationships within the organization, which are representative of the focus and lack of concentration in the organization. ISO implementation is a multi-month process, if organizations have a proper pedestrian appraisal system Have paved the way for an effective system in their organization.

Results of testing the third hypothesis (client factor:(

According to the analysis of the results (W = 0.216740242), the customer is the third factor that influences the implementation of the ISO 9000, which is referred to in clause 5.2 of ISO requirements, and senior management should ensure that the demands The customer is determined to increase the level of customer satisfaction, and this requires the establishment of a customer-friendly customer relationship management system in the factories that can measure customer satisfaction and inform customers about their demands.

Results of testing the fourth hypothesis (market policy agent:(

According to the analysis, the market policies as the fourth ((W = 0.07570717)) factor affect the implementation of ISO 9000. Implementation of ISO 9000 will increase sales of products for the organization. Organizations using the strategy Appropriate and comparing

organizations with competing organizations that have a more appropriate system can enhance their competitive ability. An organization must, by adopting and enforcing appropriate policies, create a coherent and consistent procedure within an organization and between units.

Results of the fifth hypothesis test (factor of values):

According to the results of the analysis (W = 0.07570717), Values are the fifth factor affecting the implementation of the ISO 9000. Implementation of the ISO 9000 requirements is a group activity whose implementation requires participation, satisfaction, employee adherence to It is the organization that, in order to realize that organization, should define the codes of ethics in the policy of the quality management system, which both the organization and the personnel should act in line with its objectives.

.6.5.1Results of testing the sixth hypothesis (personnel factor):

According to the results of the analysis, (0.067691269) (W = personnel is the sixth factor affecting the implementation of ISO 9000. Implementation of these requirements initially faces challenges many organizations to reduce these problems and increase Personnel skills should provide an appropriate training environment in which the personnel involved in the various departments are familiar with the system, and by creating systems of suggestion systems, etc., a suitable the self-actualization platform for of individuals in the organization.

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### Suggestions to Pars Damavand Asphalt Company

Based on the results of the research, suggestions are made to improve the quality of the products through the quality assurance system and the long-term goals of the company, which are as follows:

.1The company will pay more attention to the customer, as in the last few years, attention has been focused on the customers at the top of their work.

.2Human resources are a strategic factor, and it is very important and important, the company should try to increase the motivation of the employees and attract their participation, so that the employees willingly and more willingly serve the company.

.3Knowledge of human resources is one of the most important and key factors in improving quality, therefore, the greatest effort should be made to increase the knowledge of manpower.

.4Increasing employee experience means that employees are more familiar with the system, resulting in costly loss of personnel with a very long history and the organization should show the lasting attention to the survival of personnel with a record history. To give

5. With the increase in the quality of the product, it is possible to prevent possible losses, as well as the return of products, which can be harmful to the organization, and Lee is more important than the negative one, which creates a negative perception of the customer and, in the long run, Cancellation and loss of

the ISO certificate is issued by the issuing organization. As it has been, the organization has continued to pay attention to the quality and satisfaction of its customers.

#### :references

-1Albrech and SinGel, Model of Implementation of Quality Systems Depending on ISO 9000 Standards. Translation by Mohammad Mamaghanian, Industrial Management Organization Publishing, 1996.

.2Superhero, "ISO 9000 Global Perspective" Harmonized Education Journal, No. 56, December 1995.

-3Asghriyan, Hossein, "ISO familiarization seminar", Institute for Educational Studies and Planning, 1996

-4Amiran, Haydar, "Establishing ISO 9000 Standards for Iranian Commodities", No. 49, Oct. 74.

.5Amiran, Haydar, "Guidance for Quality Assurance Systems", Volume I, Publication of the Quality Officers Co., 1995.

-6Amiran, Heydar, "ISO and Communication with Comprehensive Quality Management", Management, No. 16.

-7Amiran, Heydar, "ISO Collection, Volume One Audit of Quality Assurance Systems" Autumn 76, Third Edition.

.8Amiran, Heydar, "The Course of Familiarization with the 2000 Edition, ISO 9000 Standards", Quality Consultants Co., 2001.



Available at <a href="https://pen2print.org/index.php/ijr/">https://pen2print.org/index.php/ijr/</a>

e-ISSN: 2348-6848 p-ISSN: 2348-795X Volume 05 Issue 23 December 2018

- .9Amiran, Heydar, "ISIR Collection, ISO 9000", Volume III, Documentation of Procedures, First Edition, 1375.
- .10James J. Patterson, ISO / TS 16949 Global Quality Standards ", translated by HosseinZahourian, Rasa Cultural Services Institute, Tehran, 1997, Second Edition
- .11John Bost, "Research Methods in Behavioral Sciences", Sharifi and Taleghani Translations, Third Edition, Tehran, Growth Publishing House, 2002.
- .12Chan Pike and Richard Barnes, "Comprehensive Quality Management in Action", Translated by Dr. Mohammad HosseinSalimi, Tehran. Summer 77, first edition.
- -13Haji Sharif, Mahmoud, "Total Quality Management", Education Center, AIC Cement Complex, 1997, Second Edition.
- .14Khakani, Gholamreza, "A Method of Research for Baroque Writing to Writing", Center for Research in Iran, in collaboration with Cultural Center Publishing House, Tehran, 1997, first edition.
- -15Rousta-Ahmad, Davar Venus, AbdolhamidEbrahimi, "Marketing Manager", Tehran Publishing House, 1997, Second Edition.
- .16Riahi Mohsen, "Quality Management Paper", Azarab Industry, No. 30, 1373.
- .17Rezaeian, Ali, "Organizational Behavior Management", Publications, Faculty of Management, Tehran University, Azar 74, Third Edition

- .18Zomoradiyan, Asghar, "Total Quality Management, Concepts, Principles, Techniques and Procedures", Institute for Educational Studies and Planning, Tehran, 1373, first edition.
- .19Salmani, Davood, "Quality Leaflet", Tehran School of Management, 1999.
- .20Shakeri.Shahram "Process Management and Quality Management System" Kiumars Publishing House 1382 D.
- .21Shahbazi, Farhad, "Thesis on ISO standards for improving the quality of products / services in industrial / commercial institutions", Guidance: DawoodSalmani, Consultant: Mahmoud Firoozian, Observer: JafarNezhad, 1998-78.
- .22Safaei, Seyyed Mohammad, "And this time the disadvantages of implementing the standards of the series are ISO / TS 16949: 2002, War Industry magazine. No. 30, 1374
- .23SafaeiMortazavi, "Information on the International Standard Organization", Harmonized Education Journal, No. 51, June 1994.
- .24Tahereh Mashhad Aliakbar, "Thesis on the Effect of Quality Improvement Methods on Employees' Behavior in the Companies Covered by Iran's Industrial Development and Renovation Organization," Supervisor: AbolhassanFaghihi, Consultation: Dr. Zahedi, Referee: Reza and Azi, 1999.
- -25Zohourian, Hossein, Basic Concepts in ISO, 75th Anniversary Edition.
- -26Asgharan.Rez "Guidelines for Corrective Action" Publication of Iran's Industrial

Available online: <a href="https://pen2print.org/index.php/ijr/P">https://pen2print.org/index.php/ijr/P</a>

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e-ISSN: 2348-6848 p-ISSN: 2348-795X Volume 05 Issue 23 December 2018

Research and Training Center 2007 First Edition

- -27Faernezhad, Amir Hossein, "ISO 9000 in 2001", Standard No. 95, April 2006.
- .28K.Hamsamuel "Total Quality Management (TQM)" Translation HosseinHosseinZadeh-First Edition Publisher 2001
- .29GolayVajvyi, Abdolreza, "Thesis on the Role of Quality Systems Based on ISO 9000 and QS9000 International Standards on Continuous Improvement of Car Suppliers Companies", Guidance: JafarNejad, Saremi Consultant, Observer: Mehregan, 1980-79
- .30Goodarzi-Ahmad, "Performance Performance Measurement", Journal of Management, Issue 94-93, 83
- .31Lari, Alireza "What you did not read about ISO" Publishing Saihnama, 1997, first edition.
- -32Mehraban, Reza, "Total Quality Management (Implementation Methodology for Comprehensive Quality Management Implementation)", Nasrolaborz, Tehran, 1997.
- .33Institute for Standardization and Industrial Research of Iran, "Standard Edition of Iran ISO 9001, January 1374. First edition
- .34Iranian Institute for Standard Industrial Research, "Iran-ISO 8402 Standard", 1995.
- .35Musa-e-Reza BahramiRokhi, Thesis Investigating the Effects of Establishing a Quality Assurance System Based on ISO 9000 International Standards in Binaloud, Guidance: Salmani, Consultant: Cultural, Observer: Mehregan, 1999 Bahar 78, First Edition.

- .36Makvandi.Karen "Exploration in ISO 9001: 2000" Publishing Aroijj 1382 First edition
- .37Moghimi. Seyed Mohammad "Organization and Management of Research Approach" Terme Publishing House, 2006 Fourth Edition
- .38Auditor's Newspaper. No. 21, Autumn 2003.
- .39Hooman, Heidarali, "Understanding the Scientific Method in Behavioral Sciences", Diba Publication, 1st Printing, Tehran, 1373
- 40. Hawley D. David "Handwriting Systems QS-9000" Rasa Institute of Cultural Services 1380 Second Edition
- 41- Besterfield, D.H", .Quality control", prentice Hall Englewood cliffs, N.J. 1979.
- 42-Black, S and porter, LJ 1995", An empirical model for total quality management", Total quality management vol6, no 2.
- 43-Birnberg , J.G. (2004) Expanding our frontiers : Managementaccounting research in the next decade ? Advances in Management and Accounting. 13:1-27.
- 48-Goh, k.c., chng, T.S. and Nashila, B.A. (2000) Internal Quality Audit as a measure of effective implementation of ISO 9000 Quality management system, BAS Thesis, RMIT University/Singapore Institute of management, Singapore

#### **International Journal of Research**

Available at <a href="https://pen2print.org/index.php/ijr/">https://pen2print.org/index.php/ijr/</a>

e-ISSN: 2348-6848 p-ISSN: 2348-795X Volume 05 Issue 23 December 2018

49-Hoyle , D. (1996) , ISO 9000 Quality systems Hard Book (2nd Ed) ,

Butter worth Heinemann, Oxford.

50-Kifayh Amar 2001"Barrier to implementing TQM in Indonesian

Manufacturing organization "Quality management world wide N34"

51-Marti Casadesus 2005"Has ISO 9000 Lost some of its luster A

Longitudinal impact study "International journal of Operation&production Management vol.25 No4.

52-Matts Carlsoon 1998"Experinces of implementation ISO 9000 in

Swedish industry "International journal of Quality Reliability Management.vol.13no7.

53- SubrahanyaBhat 2009"An empirical study of barriers to TQM implementation in Indian industries "journal of Total Quality Management.Vol.21 NO.3

 $54\mbox{-Stimpson}$  , W.A. (1998) , Beyond ISO 9000: How to Sustain Quality in a

Dynamic World, AMACOM, New York.

55-Thomas, k. (1996), How to keep ISO 9000, kogan page Ltd, London.

Available online: https://pen2print.org/index.php/ijr/P