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<b>ANOVA</b>	Analysis of Variance
<b>AT&amp;T</b>	American Telephone & Telegraph
<b>DMAIC</b>	define, measure, analyze, improve and control
<b>EFQM</b>	European Foundation for Quality Management
<b>ISO</b>	International Organization Of Standardization
<b>PDCA cycle</b>	Plan, Do, Check, Act
<b>SPSS</b>	Statistical Package for Social Sciences
<b>SWOT</b>	Strengths, Weaknesses, Opportunities, and Threats
<b>TQM</b>	Total quality management



(163) (A,B,C) 2007 25 . (301)

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One -Way ANOVA

.(Pearson correlation)

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# **The Attitudes of Municipality Councils' Members towards the Implementation of the Total Quality Management (TQM) in Municipalities of the Southern West Bank and its relationship with Expected Performance.**

## **Abstract**

This study was conducted in the second half of the year 2007. This study was limited to the municipalities of the southern West Bank, which consisted of 25 municipalities classified (A, B, C), in the governorates of Hebron and Bethlehem. The population of the study was members of municipal councils, and the sample was consisted of (163) subjects from the population which counted (301) members.

This study aimed to identify the attitudes of the municipal council members towards the implementation of total quality management (TQM) in the municipalities of the southern West Bank, and the differences in the attitudes due to those variables: qualifications, specialization, the number of years of experience, age and type of membership and classification of the municipality and province. The study also tried to examine the relationship between attitudes of members of municipal councils towards application of total quality management and the expected performance in the case of implementation in municipalities.

The importance of this study stems from the important role played by municipalities in the Palestinian community in providing basic services and the developmental responsibilities in aspects whether developmental, economic, social or political .It is also an attempt to explore the future vision of senior management towards the implementation of TQM as one of the main inputs in modern management .It benefits municipalities and those concerned with its practical results.

The researcher adopted the descriptive methodology to achieve the objectives of the study. The researcher designed a questionnaire to collect data relating to key areas recognition of total quality management, the culture of total quality management, senior management support, participation of workers, focus on beneficiaries, and impact on society. It was presented to a number of specialists, to ascertain validity and its reliability was confirmed by using Kronbach Alpha equation (95.4) and become ready for use The final version of the questionnaire consisted of (92 ) items ;it has been distributed to a stratified random sample (196 subjects). (171) of the subjects sent back the questionnaires and 163 of them were fit for the statistical treatment by using the Statistical Package for Social Sciences (SPSS) in a number of operations: frequencies, percentage, means, standard deviations, one – way ANOVA,– test, Tukey – test and Pearson's Correlation Coefficient.

The study pointed out that the members of municipal council's attitudes towards the implementation of TQM in the municipalities of the southern West Bank were positive to all dimensions of study tool and total dimension. The study revealed statistically significant differences in the attitudes in accordance with the study variables: (Qualifications, specialization, the quality of membership, and province). While the study showed a unified view of the municipal council members that there were no statistically significant differences in attitudes according to the study variables, namely: (number of years of experience, age and classification of the municipality). The study also indicated a

strong statistically significant relationship between the positive attitudes of the members of municipal councils towards the implementation of TQM and their positive performance expectations in case of implementing TQM in their municipalities.

Based on the results of the study, the researcher has to include a number of recommendations .The most important was the preparation of municipalities towards the implementation of TQM by increasing awareness and developing the culture of total quality management.

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45	142	1	83	6	8	0	3	8	7	30	41	
45	142	37	136	3	1	0	0	4	0	1	5	
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**Quality Concept**

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Quality

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Starr, Evans,

Carvin, Krajewski

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**:service quality concept**

**1.1.2**

(2002 )

Levine and Levine

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Physical Quality

Corporate Quality

Interactive Quality

(2006 )

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: Time -

: On time -

: Completeness -

: Courtesy -

: Consistency -

: Convenience -

: Accuracy -

(2005 )

: Responsiveness -

.(2004 )

## **Total Quality Management Concept**

**2.2**

**(TQM)**

.(2007 )

Thomas)

(Kuhn

.(2003 )

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.(17 2003 )"

Robert Benhart

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.(31 2006 )"

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Brockaa&Brockaa

.(16 2002 )"

" Lin Low

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British Standards Institute

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.(59 2004 )"

**3.2**

.(2001 )

.(2002 )

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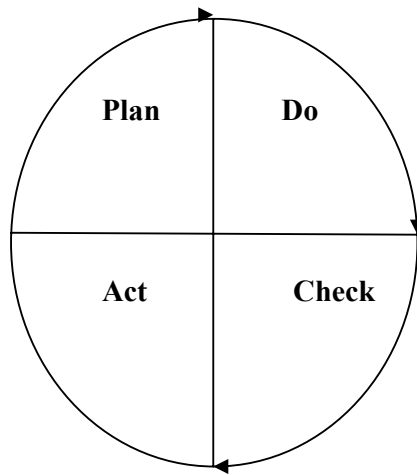
Excellence

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( PDCA cycle)

Deming Shewhart  
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(2004 ) PDCA cycle

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:Plan -1

:Do -2

:Check -3

:Act -4

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:JuranTrilogy -

:The Scientific Method -

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:Kaizen Method -

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Breakthroughs

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Total

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Juran

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Kaizen

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PDCA

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Likert,Adair,Reddin,Blake And

McGregor

Mouton

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.( S'a&Kanji,2003)

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Rothman

.(2002 )

Fredriksson)

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Shiba

.(2006 )

.(2004 )

Employee Participation and Development :

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Employee

Participation

.(2002 )

%85

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Total Organization

Performance System

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TQM	TQM	
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Immeasurable . -

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.(2004 )

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**"ISO" 12.2**

International Organization Of Standardization

ISO9000

ISO14000

ISO9000

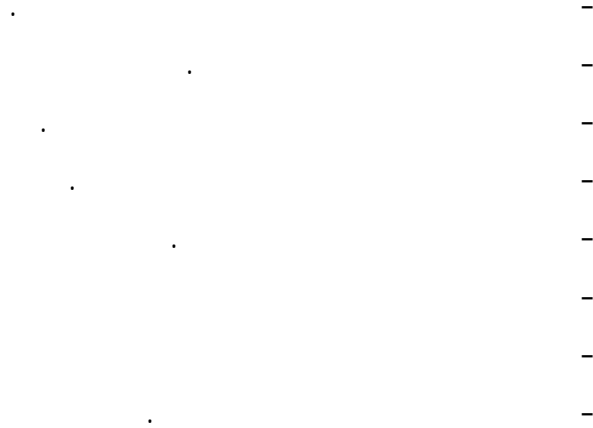
- : ISO9000
- .ISO8402 -
- .ISO9000 -
- .ISO10000 -
- ISO9000
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- .(1999 ) -

ISO9000

(ISO9001,ISO9002,ISO9003 )

1987

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TQM

ISO9000

2000

ISO9000

(Customer Focus)

.(2004 )

ISO9000

ISO9000

.(2006 )

ISO9000

.(1999 )

**Six sigma**

**13.2**

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%99.9997

.(Anbarib,2005)

( DMAIC)

2002 Malcolm Baldrige  
, 2003

.(Forrest&Green,2006)

**14.2**

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EFQM

1987

1951

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%50

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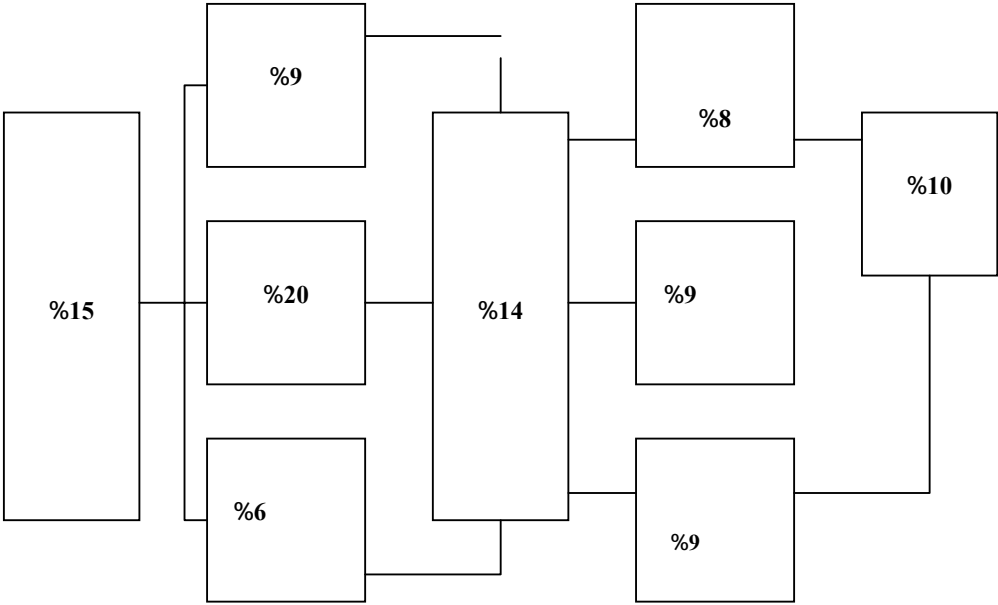
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(2006 )

(2.2)



.(2007 )

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.(George&Cooper,2003)

: 1.14.2



(Porter & Lawler)

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$$( \quad \times \quad \times \quad ) =$$

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: **2.14.2**

.(2002 )

Team

Robert Zajonc

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356

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(Sullivan & Estes,2007)

(SERVQUAL)

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Fulton

135

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(gap analysis)

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(2006)(Houston & Katavic)

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Rotorua

2002

31

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" (Furterer&Elshennawy,2005)

" -

7000

:

70-13

DMAIC

:

%40

%60

.%87

%90

6

13

" (2003)(William)

"

# Inland Empire

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Y

X

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( ) :

" (2003)(S'a&Kanji)  
"

Vision :  
Management Practice

Strategy

Mission

%28

85

:

%70

%64 %61

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" (2003)(George&Cooper)  
 ( ) "  
 Stirling  
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- " (2003) (Fredriksson)  
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" (Jones,1999)

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.(William,2003)

(Houston&Katavic,2006)

(Fredriksson,2003)

(Furterer&Elshennawy,2005)

(Sullivan&Estes,2007)

( Jones,1999 )



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**1.3**

**2.3**

.(1989 )

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Likert

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72

-17) 11 (16-1) 16

(38-28) 11 (27

(60-50) 11 (49-39) 11

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20 :

.(1.3)

: **1.3.3**

(2.3)

: **2.3.3**

(Cronbach Alpha)

.(1.3)

( Cronbach Alpha )

:1.3

Alpha				
0.799	16			1
0.778	11			2
0.776	11			3
0.796	11			4
0.801	11			5
0.865	12			6
0.954	72			
0.920	20			

(1.3)

- 0.776)  
(0.920)

(0.954)

( 0.865

4.3

(A,B,C )

- (113)  
- (2.3)

(188)  
(301)

:2.3

.( 2007 )

<b>15</b>	<b>A</b>		<b>8</b>	<b>A</b>	
<b>13</b>	<b>B</b>		<b>11</b>	<b>B</b>	
<b>13</b>	<b>B</b>		<b>10</b>	<b>B</b>	
<b>13</b>	<b>C</b>		<b>13</b>	<b>B</b>	
<b>13</b>	<b>C</b>		<b>13</b>	<b>B</b>	
<b>13</b>	<b>C</b>		<b>13</b>	<b>B</b>	
<b>11</b>	<b>C</b>		<b>13</b>	<b>B</b>	
<b>11</b>	<b>C</b>		<b>13</b>	<b>B</b>	
<b>11</b>	<b>C</b>		<b>13</b>	<b>B</b>	
<b>(113)</b>		<b>(9)</b>	<b>13</b>	<b>B</b>	
			<b>13</b>	<b>B</b>	
<b>25 = 9 + 16 =</b>			<b>11</b>	<b>C</b>	
			<b>11</b>	<b>C</b>	
<b>301 = 113 + 188 =</b>			<b>11</b>	<b>C</b>	
			<b>11</b>	<b>C</b>	
<b>2 = (A)</b>			<b>11</b>	<b>C</b>	
<b>12 = (B)</b>			<b>(188)</b>		<b>(16)</b>
<b>11 = (C)</b>					

5.3

(196)

0.65

(A,B,C)

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.(2000 )

.(3.3)

:3.3

( ÷ )					
0.93	13	14	15	23	(A)
0.85	82	84	98	151	(B)
0.88	68	73	83	127	(C)
0.87	163	171	196	301	

(8)

(171)

(3.3)

0.54

0.87

(163)

:

(4.3)

: 4.3

17.8	29	
25.2	41	
39.9	65	
17.2	28	
100.0	163	

(4.3)

%17.2

%39.9

%25.2

%17.8

(5.3)

:5.3

18.4	30	
52.1	85	
29.4	48	
100.0	163	

(5.3)

%52.1

%29.4

%18.4

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%69.3 (113) 3

%30.7 (50) 3

3

2005

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3

45

(59) 45

%63.8 (104)

%36.2

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%85.3 (139)

%14.7 (24)

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(6.3)

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: 6.3

8.0	13	(A)
50.3	82	(B)
41.7	68	(C)
100.0	163	

(6.3)

%50.3 (B)

%8.0 (A) %41.7 (C)

(68) %65.6 (107)

%34.4

**6.3**

.ISO 9002

**7.3**



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SPSS

Tukey

t-test

One –Way ANOVA  
(Pearson correlation)

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$$0.8 = (4 \div 5)$$

n-1

$$1.8 = 1$$

(1.8 -1 )

: (1.8)

(2.6 -1.8 )

(3.4 -2.6 )

(4.2 -3.4 )

( 4.2)



1.4

”:

:

( )

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: (1.4)

:1.4

0.41	4.11		1
0.38	4.26		2
0.36	4.40		3
0.39	4.22		4
0.39	4.26		5
0.41	4.32		6
0.32	4.25		

(1.4)

(4.25)

(4.40 – 4.11)

(4.32)

(4.40)

(4.26)

(4.22)

(4.11)

.(7.4) (6.4) (5.4) (4.4) (3.4) (2.4):

:2.4

0.621	4.47		6
0.673	4.40		4
0.604	4.40		9
0.682	4.36		12
0.605	4.36		11
0.622	4.28		7
0.622	4.28		10
0.850	4.21		5
0.761	4.20		3
0.842	4.12		2
0.842	4.12		16
0.840	3.91		14
0.981	3.82		13
1.082	3.79		15
0.966	3.74		8
1.119	3.49		1
0.408	4.11		

" (6)  
"

(2.4)

(3,5,10,7,11,12,9,4)

(4.47)

" (1)

(3.49)

"

(8,15,13,14,16,2)

:3.4

0.560	4.49		18
0.651	4.39		22
0.585	4.36		25
0.662	4.35		27
0.643	4.31		26
0.660	4.28		17
0.634	4.26		21
0.699	4.23		19
0.768	4.21		24
0.705	4.18		23
0.881	3.91		20
0.38	4.26		

(18)

(3.4)

(4.49)

"

"

(24,19,21,17,26,27,25,22)

" (20)

(3.91)

"

(23)

:4.4

0.586	4.64		30
0.611	4.54		31
0.612	4.47		36
0.622	4.47		33
0.590	4.45		29
0.600	4.45		28
0.644	4.40		35
0.634	4.40		34
0.631	4.38		32
0.687	4.33		38
0.950	3.87		37

0.364	4.40	
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" (30) (4.4)

"

(38,32,34,35,28,29,33,36,31) (4.64)

" (37)

(3.87)

"

(37)

:5.4

0.533	4.57		39
0.592	4.50		44
0.595	4.36		42

0.649	4.30		40
0.630	4.30		43
0.616	4.29		46
0.663	4.26		45
0.660	4.23		49
0.732	4.09		48
0.859	3.95		41
0.899	3.69		47
0.392	4.22		

" (39)

(5.4)

(49,45,46,43,40,42,44)

(4.57)

"

" (47)

(3.69)

"

(48,41)



:6.4

0.617	4.42		57
0.586	4.42		50
0.537	4.39		59
0.766	4.35		55
0.604	4.31		60
0.731	4.31		56
0.619	4.27		52
0.609	4.27		51
0.716	4.19	)	54
0.778	4.08	(	53
0.840	3.93		58
0.392	4.26		

" (57) (6.4)

"

(51.50.59.55.60.56.52) (4.42)

" (58)

(54.53)

(3.93)

"

:7.4

0.651	4.53		72
0.570	4.48		63
0.586	4.42		66
0.658	4.37		61
0.632	4.34		68
0.635	4.32		69
0.593	4.31		71
0.660	4.31		64
0.665	4.29		65
0.681	4.23		62
0.629	4.22		70
0.773	4.12		67
0.409	4.32		

(72)

(7.4)

"

"

(70,62,65,64,71,69,68,61,66,63) (4.53)

" (67)

(4.12) "

2.4

( $\alpha \leq 0.05$ )

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(Pearson correlation)

.(8.4)

(Pearson correlation)

:8.4

	"r"	
0.01	0.63	
0.01	0.67	
0.01	0.64	
0.01	0.65	
0.01	0.73	
0.01	0.73	
0.01	0.90	

(8.4)

(0.01)

(0.90)

(r)

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(r)

(0.73)

(r)

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.(0.01)

.(0.01)

(0.67)

(r)

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(r)

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.(0.01)

(0.64)

(r)

-

.(0.01)

(0.63)

(r)

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-

.(0.01)

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3.4

( $\alpha \leq 0.05$ )

( 9.4 )

:9.4

الانحراف المعياري	المتوسط الحسابي	العدد	مستوى المتغير	المجال
0.472	4.15	29		
0.383	4.12	41		
0.383	4.09	65		
0.447	4.11	28		
0.408	4.11	163		
0.416	4.42	29		
0.310	4.24	41		
0.378	4.17	65		
0.385	4.36	28		
0.380	4.26	163		
0.402	4.42	29		
0.366	4.31	41		

0.357	4.38	65		
0.312	4.53	28		
0.364	4.40	163		
0.386	4.35	29		
0.368	4.21	41		
0.408	4.16	65		
0.380	4.26	28		
0.392	4.22	163		
0.336	4.39	29		
0.393	4.24	41		
0.388	4.22	65		
0.448	4.26	28		
0.392	4.26	163		
0.383	4.37	29		
0.444	4.29	41		
0.399	4.30	65		
0.414	4.39	28		
0.409	4.32	163		
0.341	4.34	29		
0.323	4.23	41		
0.312	4.21	65		
0.314	4.30	28		
0.321	4.26	163		

(9.4)

( 10.4)

(One -Way ANOVA)

:10.4

0.930	0.150	0.025	3	0.076		
		0.170	160	26.80		
			161	26.88		
* 0.013	3.711	0.511	3	1.534		

		0.138	160	21.911	
			162	23.445	
0.102	2.105	0.275	3	0.824	
		0.130	160	20.742	
			162	21.566	
0.191	1.600	0.244	3	0.731	
		0.152	160	24.217	
			162	24.948	
0.288	1.267	0.195	3	0.584	
		0.154	160	24.426	
			162	25.010	
0.647	0.553	0.094	3	0.281	
		0.169	160	26.903	
			162	27.184	
0.150	1.795	0.191	3	0.572	
		0.106	160	16.882	
			162	17.454	

(10.4)

( $\alpha \leq 0.05$ )

(0.05)

(Tukey Test)

.(11.4)

(Tukey Test)

:11.4

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(11.4)

(4.17)

(4.42)

$(\alpha \leq 0.05)$

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4.4

$(\alpha \leq 0.05)$

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(12.4)

:12.4

0.470	4.14	30		
0.395	4.17	85		
0.373	4.00	48		
0.408	4.11	163		
0.416	4.40	30		
0.382	4.29	85		



0.317	4.14	48		
0.380	4.26	163		
0.398	4.41	30		
0.347	4.45	85		
0.361	4.30	48		
0.364	4.40	163		
0.388	4.33	30		
0.401	4.26	85		
0.345	4.09	48		
0.392	4.22	163		
0.331	4.38	30		
0.439	4.30	85		
0.297	4.12	48		
0.392	4.26	163		
0.380	4.36	30		
0.450	4.35	85		
0.347	4.26	48		
0.409	4.32	163		
0.340	4.33	30		
0.327	4.30	85		
0.272	4.14	48		
0.321	4.26	163		

(12.4)

( 13.4)

(One –Way ANOVA)

:13.4

*0.050	2.930	0.478	2	0.956		
		0.163	159	25.924		
			161	26.88		
**0.006	5.232	0.720	2	1.439		
		0.138	160	22.006		
			162	23.445		

0.083	2.532	0.331	2	0.662	
		0.131	160	20.904	
			162	21.566	
**0.010	4.759	0.700	2	1.401	
		0.147	160	23.546	
			162	24.948	
**0.008	4.949	0.729	2	1.457	
		0.147	160	23.553	
			162	25.010	
0.441	0.822	0.138	2	0.276	
		0.168	160	26.908	
			162	27.184	
* 0.013	4.653	0.461	2	0.922	
		0.099	160	15.651	
			162		

(13.4)

( $\alpha \leq 0.05$ )

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. (0.05)

(Tukey Test)

.(14.4)

(Tukey Test)

:14.4

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			4.14	
-----	-----	-----	4.17	
*0.17	-----	-----	4.00	
-----	-----	-----	4.40	
*0.27	-----	-----	4.29	
-----	-----	-----	4.14	

*0.25	-----	-----	4.33		
*0.18	-----	-----	4.26		
-----	-----	-----	4.09		
*0.26	-----	-----	4.38		
*0.17	-----	-----	4.30		
-----	-----	-----	4.12		
*0.18	-----	-----	4.33		
*0.16	-----	-----	4.30		
-----	-----	-----	4.14		

(14.4)

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%18.4

5.4

( $\alpha \leq 0.05$ )

(15.4)

(t-Test)

(t-Test)

:15.4

	T						
0.199	-1.293	161	0.409	4.091	113	3	
			0.402	4.180	50	3	
0.789	-0.269	161	0.386	4.264	113	3	
			0.370	4.281	50	3	
0.889	-0.140	161	0.357	4.399	113	3	
			0.384	4.408	50	3	
0.907	-0.117	161	0.399	4.226	113	3	
			0.379	4.234	50	3	
0.594	0.535	161	0.394	4.277	113	3	
			0.392	4.241	50	3	
0.743	0.329	161	0.421	4.335	113	3	
			0.386	4.313	50	3	
0.700	-0.38	161	0.32	4.25	113	3	
			0.32	4.28	50	3	

(15.4)

( $\alpha \leq 0.05$ )

(0.05)

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%69.3

**6.4**

( $\alpha \leq 0.05$ )

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.(16.4)

(t-Test)

(t-Test)

:16.4

	T						
0.108	1.622	161	0.384	4.158	104	45	
			0.442	4.046	59	45	
0.383	0.876	161	0.387	4.289	104	45	
			0.368	4.235	59	45	
0.335	0.968	161	0.345	4.423	104	45	
			0.396	4.363	59	45	
0.150	1.44	161	0.397	4.262	104	45	

			0.380	4.171	59	45	
0.085	1.73	161	0.399	4.305	104	45	
			0.375	4.197	59	45	
0.884	-0.147	161	0.431	4.325	104	45	
			0.372	4.334	59	45	
0.16	1.41	161	0.32	4.29	104	45	
			0.33	4.21	59	45	

(16.4)

( $\alpha \leq 0.05$ )

(0.05)

7.4

( $\alpha \leq 0.05$ )

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.(17.4)

(t-Test)

(t-Test)

:17.4

	T						
0.601	-0.524	161	0.42	4.11	139		
			0.35	4.16	24		
0.485	0.700	161	0.39	4.28	139		
			0.33	4.22	24		
0.332	0.973	161	0.36	4.41	139		
			0.39	4.33	24		
0.107	1.622	161	0.40	4.24	139		
			0.34	4.11	24		
* 0.039	2.086	161	0.39	4.29	139		
			0.38	4.11	24		
0.169	1.383	161	0.42	4.35	139		
			0.36	4.22	24		
0.321	0.996	161	0.33	4.27	139		
			0.28	4.20	24		

(17.4)

( $\alpha \leq 0.05$ )

(0.05)

(17.4)

(4.11)

(4.29)



## 8.4

$(\alpha \leq 0.05)$

.(18.4)

:18.4

الانحراف المعياري	المتوسط الحسابي	التكرار	مستوى المتغير	المجال
0.461	4.01	13	(A)	
0.428	4.17	82	(B)	
0.367	4.06	68	(C)	
0.408	4.11	163		
0.402	4.21	13	(A)	
0.369	4.28	82	(B)	
0.393	4.25	68	(C)	
0.380	4.26	163		
0.391	4.51	13	(A)	
0.361	4.38	82	(B)	
0.365	4.40	68	(C)	
0.364	4.40	163		
0.527	4.16	13	(A)	
0.358	4.18	82	(B)	
0.398	4.29	68	(C)	
0.392	4.22	163		
0.419	4.21	13	(A)	
0.412	4.25	82	(B)	
0.366	4.29	68	(C)	

0.392	4.26	163		
0.410	4.32	13	(A)	
0.370	4.33	82	(B)	
0.457	4.32	68	(C)	
0.409	4.32	163		
0.337	4.22	13	(A)	
0.320	4.26	82	(B)	
0.325	4.26	68	(C)	
0.321	4.26	163		

(18.4)

( 19.4)

(One –Way ANOVA)

:18.4

0.194	1.659	0.275	2	0.550		
		0.166	159	26.330		
			161	26.88		
0.777	0.253	0.037	2	0.074		
		0.146	160	23.371		
			162	23.445		
0.512	0.671	0.090	2	0.179		
		0.134	160	21.386		
			162	21.566		
0.176	1.754	0.268	2	0.535		
		0.153	160	24.413		
			162	24.948		
0.703	0.353	0.055	2	0.110		
		0.156	160	24.900		
			162	25.010		
0.997	0.003	0.001	2	0.001		
		0.170	160	27.183		
			162	27.184		

0.924	0.079	0.008	2	0.017		
		0.105	160	16.556		
			162	16.573		

(19.4)

( $\alpha \leq 0.05$ )

(0.05)

**9.4**

( $\alpha \leq 0.05$ )

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.(20.4)

(t-Test)

(t-Test)

:20.4

	<b>T</b>						
* 0.017	2.407	161	0.425	4.171	107		

			0.357	4.019	56		
0.472	7.22	161	0.382	4.285	107		
			3.78	4.240	56		
0.983	0.022	161	0.384	4.402	107		
			0.326	4.401	56		
0.617	0.501	161	0.391	4.240	107		
			0.396	4.207	56		
0.745	0.326	161	0.410	4.273	107		
			0.360	4.253	56		
0.801	0.252	161	0.388	4.334	107		
			0.451	4.317	56		
0.300	1.05	161	0.33	4.28	107		
			0.31	4.22	56		

(20.4)

( $\alpha \leq 0.05$ )

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(Houston&Katavic,2006)

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	رقم الجدول
12 .....	1.1
28 .....	1.2
32 .....	2.2
( Cronbach Alpha )	1.3
62 .....	2.3
63 .....	
64 .....	3.3
65 .....	4.3
65 .....	5.3
66 .....	6.3
	1.4
69 .....	2.4
71 .....	3.4
72	4.4
73 .....	5.4
74 .....	6.4
76 .....	7.4
77 .....	8.4
(Pearson correlation)	8.4
79 .....	9.4
81 .....	

	<b>(One –Way ANOVA)</b>	<b>10.4</b>
82	.....	
	<b>(Tukey Test)</b>	<b>11.4</b>
82	.....	
		<b>12.4</b>
83	.....	
	<b>(One –Way ANOVA)</b>	<b>13.4</b>
85	.....	
	<b>(Tukey Test)</b>	<b>14.4</b>
	)	
86	..... (	
	<b>(t-Test)</b>	<b>15.4</b>
88	.....	
	<b>(t-Test)</b>	<b>16.4</b>
90	.....	
	<b>(t-Test)</b>	<b>17.4</b>
91	.....	
		<b>18.4</b>
92	.....	
	<b>(One –Way ANOVA)</b>	<b>19.4</b>
93	.....	
	<b>(t-Test)</b>	<b>20.4</b>
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23	PDCA cycle :1.2
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	رقم الملحق
110 .....	1.3
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.....**Abstract**.....

1	.....	:
1	.....	<b>1.1</b>
3	.....	2.1
4	.....	3.1
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12	.....	4.9.1
13	.....	5.9.1
15	.....ISO 9000	6.9.1
16	.....	10.1
17	.....	:
17	.....	<b>1.2</b>
18	.....	1.1.2
19	.....	2.2
20	.....	3.2
30	.....	4.2
31	.....	5.2
32	.....	6.2
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39	..... Six sigma	13.2
41	.....	14.2
43	.....	1.14.2
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57	.....	3.15.2
60	.....( ) :	
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69	.....	<b>1.4</b>
78	.....	<b>2.4</b>
80	.....	3.4
83	.....	4.4
88	.....	5.4
89	.....	6.4
91	.....	7.4
92	.....	8.4
95	.....	9.4
96	.....	10.4
98	..... :	
98	.....	<b>1.5</b>

99	.....
102	.....
104	.....
104	.....
108	.....
110	.....
119	.....
121	.....
122	.....
123	.....