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Contents lists available at ScienceDirect

Data in Brief





Data Article

- 11 of Assessment of prioritizing the effective factors on
 - ve human resources effectiveness (Case Study: Tehran Industrial Parks Organization)

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Engagement

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ABSTRACT

Identifying the effective factors on human resources effectiveness can help management and leadership to obtain success, organization goals and fulfillment of high effectiveness and efficiency. Thus, management and leadership always supposed to survey the effective factors on effectiveness of these valuable and transformational resources. Effective factors on employee effectiveness have different aspects and varieties. For instance, Hay Group® model which is in order to compare organizations based on employee effectiveness. The model includes different factors located in two groups of ENGAGE-MENT and ENABLEMENT. The main purpose of this study is to assess and prioritize effective factors on employee effectiveness in Tehran Industrial Parks. On the other side, it is required to be surveyed and determined according to organizational properties and content dimensions of under study organization, and use of latent knowledge amongst organization experts (top managers). This cross-sectional and descriptive- analytical research is performed in 2017. So, it is trying to achieve the purposes of study through interview, Delphi method, Multiple Criteria Decision-Making (MCDM) and Analytical Hierarchy Process (AHP) [1-6].

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Specifications Table

Subject area More specific subject area	Human Resources Management Hay Group [®] model of Effectiveness, Iran Small Industries and Industrial Parks, Tehran Industrial Parks
3	
Type of data	Tables, Diagram
How data was acquired	This cross-sectional and descriptive-analytical research is performed in 2017.
Data format	Raw, Analyzed
Data source	Tehran Industrial Parks Organization as the main organization of Iran Small
location	Industries and Industrial Parks (isipo) included 18 active industrial parks.
Data accessibility	Data is included in this article

Value of the data

- Investigating the factors of employee effectiveness in Iran Small Industries and Industrial Parks for the first time.
- Studying the global models of employee effectiveness and choose Hay Group[®] model as the basis.
- Use of Delphi and AHP techniques as selected research method in order to make effective decisions in Human Resources.
- Impact of effectiveness improvement in growth of organization and employee productivity.

1. Data

First, provided tables about Experts, including their position, department, work experience and degree is shown below (Tables 1-8).

After consensus, participants (experts) in interview have stated common criteria for identifying factors affecting on employee effectiveness. Prioritized criteria in this research collected by experts based on Delphi method are included:

- Accessibility
- Comprehensiveness
- Influence level

AHP tables:

See Supplementary Table 9 here.

According to Table 9, the priority of the factors affecting on employee engagement based on criterion of "Accessibility" are respectively:

- 1. Pay and benefits
- 2. Development opportunities

Table 1Total numbers of participants according to position.

Amount	Experts position
1	CEO
2	Consultant
3	Assistant
12	Manager
18	Total

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Available participant according to department.

Amount	Experts department
5	CEO Area
3	Deputy of Planning and Economic Affairs
4	Deputy of Small Industries
3	Deputy of Civil and Environmental
2	Deputy of Support and Human Resources
17	Total

Table 3 Participants work experience.

Amount	Experts work experience (Year)
4	8-12
4	13–17
6	18-23
3	Over 23
17	Total

Table 4 Participants degree.

Amount	Experts degree
5	B.Sc.
12	M.Sc.
17	Total

- 3. Respect and recognition
- 4. Quality and customer focus
- 5. Clear and promising direction
- 6. Confidence in leaders

According to Table 10, the priority of the factors affecting on employee enablement based on criterion of "Accessibility" are respectively:

- 1. Training
- 2. Resources
- 3. Performance management
- 4. Authority and empowerment
- 5. Collaboration
- 6. Work, structure and processes

According to Table 11, the priority of the factors affecting on employee engagement based on criterion of "Comprehensiveness" are respectively:

- 1. Pay and benefits
- 2. Respect and recognition
- 3. Development opportunities
- 4. Confidence in leaders
- 5. Clear and promising direction
- 6. Quality and customer focus

Table 5Participants' responses to Delphi questionnaire.

Delphi Que	stionnair	e: Determ	ining Expe	erts' Cr	iteria											
Experts' Criteria	Influence	e level of	effectivene	ess fact	tors	Comprel	nensivene	ss of effect	ivenes	s factors	Accessib	ility to ef	Additional criteria			
Row	Strongly disagree	Disagree	Undecided	Agree	Strongly agree	Strongly disagree	Disagree	Undecided	Agree	Strongly agree	Strongly disagree	Disagree	Undecided	Agree	Strongly agree	_
Participant 1	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	-
Participant 2	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	_
Participant 3	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	Quality and customer focus
Participant 4	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	Degree- Family status Work experience- Gender- Age
Participant 5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	Employee position- Work place situation- Society situation
Participant 6	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	-
Participant 7	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	-
Participant 8	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	-
Participant 9	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	-
Participant 10	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	-
Participant 11	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	-
Participant 12	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	-
Participant 13	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	-
Participant 14	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	Training- Standards and policies

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Table 6 Participants' responses for paired comparisons of criteria.

	Participants																			
Paired comparisor	ns of Experts criteria	rticipant 1	rticipant 2	rticipant 3	rticipant 4	rticipant 5	rticipant 6	rticipant 7	rticipant 8	rticipant 9	ticipant 10	ticipant 11	ticipant 12	ticipant 13	ticipant 14	ticipant 15	ticipant 16	ticipant 17	ticipant 18	Geomean
A	В	Par	Pa	Pa	Pai	Pa	Pa	P	Pa	Pa	Par									
Comprehensiveness	Influence level	2.00	4.00	5.00	6.00	2.00	4.00	0.17	0.25	1.00	1.00	6.00	0.17	0.14	4.00	1.00	0.17			1.14
Accessibility	Influence level	2.00	2.00	1.00	0.20	2.00	0.33	0.14	3.00	1.00	7.00	6.00	0.13	0.14	0.20	0.25	1.00			0.74
Accessibility	Comprehensiveness	1.00	2.00	1.00	0.33	2.00	0.33	5.00	5.00	1.00	3.00	8.00	0.11	0.20	1.00	1.00	0.50			1.07

Participants criteria	Influence level	Comprehensiveness	Accessibility	Mean	Percentage
Influence level	1.00	1.14	0.74	0.96	31.59%
Comprehensiveness	0.88	1.00	1.07	0.98	32.35%
Accessibility	1.35	0.93	1.00	1.10	36.06%

Table 7 Paired comparisons matrix of criteria.

The participants criteria for effectiveness	Influence level	Comprehensiveness	Accessibility	Mean	Percentage (%)
Influence level	1.00	1.14	0.74	0.96	31.59
Comprehensiveness	0.88	1.00	1.07	0.98	32.35
Accessibility	1.35	0.93	1.00	1.10	36.06

Raw data for paired comparisons matrix of criteria.

The criteria of participants			kert	sca	ile														The criteria of participants
Comprehensiveness		9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Influence level
Accessibility		9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Influence level
Accessibility		9	8	7	6	5	4	3	2	1	2	3	4	5	6	7	8	9	Comprehensiveness

Table 9 The result of paired comparisons matrix between factors of employee engagement based on criterion of "Accessibility".

1. The criterion	of "Accessibil	ity to factors	of employee	effectivenes	s"				
Factors of employee engagement	Clear and promising direction	Confidence in leaders	Quality and customer focus	Respect and recog- nition	Development opportunities			Percentage (%)	Rank
Clear and pro- mising direction	1.00	0.54	1.77	0.40	0.50	0.39	0.99	12.94	5
Quality and customer focus	0.57	0.57	1.00	0.55	0.58	0.29	1.00	13.03	4
Respect and recognition	2.50	0.87	1.81	1.00	1.35	0.87	1.30	17.06	3
Development opportu- nities	2.01	1.19	1.72	0.74	1.00	0.57	1.55	20.31	2
Pay and benefits	2.56	1.50	3.41	1.15	1.77	1.00	1.90	24.85	1

325 Table

The result of paired comparisons matrix between factors of employee enablement based on criterion of "Accessibility".

2. The criterion of Factors of employee enablement	Performance	to factors of er Authority and empowerment				Work, structure and pro- cesses		Percentage (%)	Rank
Performance management	1	1.23	1.20	0.40	0.93	1.10	0.98	15.13	3
Authority and empowerment	0.81	1	0.97	0.98	1.01	1.14	0.95	14.61	4
Resources	0.83	1.03	1	0.78	1.04	0.77	1.37	21.21	2
Training	2.48	1.02	1.28	1	2.53	2.71	1.4	21.56	1
Collaboration	1.08	0.99	0.96	0.40	1	1.31	0.91	14.08	5
Work, structure and processes	0.91	0.88	1.29	0.37	0.77	1	0.87	13.41	6

Table 11

The result of paired comparisons matrix between factors of employee engagement based on criterion of "Comprehensiveness".

1. The criterion Factors of employee engagement	of "Compreho Clear and promising direction		employee ef Quality and customer focus	Respect	actors" Development opportunities			Percentage (%)	Rank
Clear and pro- mising direction	1	0.92	1.46	0.35	0.53	0.30	0.76	10.69	5
Quality and customer focus	0.68	0.45	1	0.79	0.57	0.39	0.65	9.13	6
Respect and recognition	2.89	1.21	1.27	1	1.13	0.55	1.34	18.88	2
Development opportu- nities	1.90	1.83	1.74	0.89	1	0.60	1.33	18.69	3
Pay and benefits	3.28	1.51	2.56	1.80	1.66	1	1.97	27.76	1

Table 12

The result of paired comparisons matrix between factors of employee enablement based on criterion of "Comprehensiveness".

2. The criterion of Factors of employee enablement	Performance	siveness of emp Authority and empowerment	Resources				Geometric mean	Percentage (%)	Rank
Performance management	1	0.64	1.38	0.44	0.89	0.73	0.85	12.75	5
Authority and empowerment	1.56	1	1.41	0.68	1.03	1.46	1.19	17.88	2
Resources	0.73	0.71	1	0.69	0.92	1.29	0.89	13.37	4
Training	2.25	1.46	1.45	1	3.05	2.09	1.88	28.35	1
Collaboration	1.12	0.97	1.09	0.33	1	1.60	1.02	15.31	3
Work, structure and processes	1.36	0.69	0.77	0.48	0.62	1	0.82	12.34	6

 Table 13

 The result of paired comparisons matrix between factors of employee engagement based on criterion of "Influence level".

1. The criterion Factors of employee engagement	of "Influence Clear and promising direction		loyee effectiv Quality and customer focus	Respect	Development opportunities	-		Percentage (%)	Rank
Clear and pro- mising direction	1	0.76	1.93	0.45	0.37	0.28	0.80	9.72	5
Quality and customer focus	0.52	0.32	1	0.37	0.27	0.22	0.45	5.47	6
Respect and recognition	2.20	1.62	2.72	1	1.01	0.44	1.50	18.24	3
Development opportu- nities	2.68	1.80	3.75	0.99	1	0.61	1.80	21.95	2
Pay and benefits	3.54	2.00	4.46	2.27	1.64	1	2.49	30.25	1

 Table 14

 The result of paired comparisons matrix between factors of employee enablement based on criterion of "Influence level".

2. The criterion of Factors of employee enablement	Performance	Authority and empowerment	Resources			Work, structure and pro- cesses		Percentage (%)	Rank
Performance management	1	0.80	0.78	0.31	0.67	0.90	0.74	11.11	6
Authority and empowerment	1.26	1	1.05	0.56	0.67	0.68	0.87	13.00	4
Resources	1.28	0.95	1	0.53	0.66	0.55	0.83	12.37	5
Training	3.24	1.79	1.88	1	1.26	1.77	1.82	27.28	1
Collaboration	1.48	1.49	1.52	0.79	1	1.72	1.33	19.94	2
Work, structure and processes	1.11	1.46	1.83	0.56	0.58	1	1.09	16.30	3

Table 15Priority of engagement factors of employee effectiveness based on prioritized criteria.

Factors of employee en The participants cri- teria for effectiveness	Priority of				Respect and recognition	Development opportunities	Pay and benefits
Accessibility	1 Priority of factors	12.94 5	11.81 6	13.03 4	17.06 3	20.31 2	24.85 1
Comprehensiveness	2 Priority of factors	10.69 5	14.85 4	9.13 6	18.88 2	18.69 3	27.76 1
Influence level	3 Priority of factors	9.72 5	14.37 4	5.47 6	18.24 3	21.95 2	30.25 1

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Table 1 434 Priority

Priority of enablement factors of employee effectiveness based on prioritized criteria.

Factors of employee er The participants cri- teria for effectiveness	Priority of	Performance management	Authority and empowerment	Resources	Training	Collaboration	Work, structure and processes
Accessibility	1	15.13	14.61	21.21	21.56	14.08	13.41
	Priority of factors	3	4	2	1	5	6
Comprehensiveness	2	12.75	17.88	13.37	28.35	15.31	12.34
	Priority of factors	5	2	4	1	3	6
Influence level	3	11.11	13.00	12.37	27.28	19.94	16.30
	Priority of factors	6	4	5	1	2	3

According to Table 12, the priority of the factors affecting on employee enablement based on criterion of "Comprehensiveness" are respectively:

- 1. Training
- 2. Authority and empowerment
- 3. Collaboration
- 4. Resources
- 5. Performance management
- 6. Work, structure and processes

According to Table 13, the priority of the factors affecting on employee engagement based on criterion of "Influence level" are respectively:

- 1. Pay and benefits
- 2. Development opportunities
- 3. Respect and recognition
- 4. Confidence in leaders
- 5. Clear and promising direction
- 6. Quality and customer focus

According to Table 14, the priority of the factors affecting on employee enablement based on criterion of "Influence level" are respectively: (Tables 15 and 16)

- 1. Training
- 2. Collaboration
- 3. Work, structure and processes
- 4. Authority and empowerment
- 5. Resources
- 6. Performance management

2. Materials and methods

This cross-sectional and descriptive-analytical research is performed at Tehran Industrial Parks Organization in 2017. This organization has 18 active and scattered industrial parks in Tehran province

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which are heterogeneous in terms of some features. The study sampling method for determining prioritized criteria was purposive, non-random and non-probable. For this purpose, the statistical population has been selected among top managers of the research community in the sample of 18 people and they were asked by designed questionnaire and interview through Delphi method and Hierarchy Analytical Process (AHP) to score their criteria and determine the priority and rank of each criterion and factor. Subsequently, by multivariate decision making software, the weight of each criterion and factor has been obtained and the criteria are analyzed according to purpose of the effectiveness of human resources and the priority is determined accordingly [7–12].

Acknowledgement

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Transparency document. Supporting information

Transparency data associated with this article can be found in the online version at https://doi.org/10.1016/j.dib.2018.07.017.

Appendix A. Supporting information

Supplementary data associated with this article can be found in the online version at https://doi.org/10.1016/j.dib.2018.07.017.

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