

ASSESSMENT OF 5- MINUTE RUN LEVEL OF SAMSUNG ELECTRONICS VIETNAM COMPANY LIMITED'S STAFF IN INDUSTRIAL ZONE 1 YEN TRUNG -YEN PHONG - BAC NINH

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Abstract:

Using the common scientific research methods in the field of sports, the study has evaluated the status of 5-minute run level as a basis for assessing the real status of physical strength of Samsung Electronics Vietnam (SEV) Company Limited's staff, contributing to improve human resources quality for the company.

Key words: Physical strength, staff, SEV Company Limited, Industrial Zone 1...

INTRODUCTION

Recently, SEV Company Limited has organized many sports activities to improve and maintain physical strength for the staff, making contribution to enhance labor productivity and prevent staff from occupational diseases and workplace accidents. Sports clubs are operating properly with specific orientations and regulations, which create a healthy and useful playground for staff to improve their physical strength. However, besides the achievements, the management of sports activities in the company still has several limitations. The Company has not launched and organized practical professional exercises for staff as well as spent appropriately on this field. Sports movement is spontaneous, lack of scientific basis, inefficient and have not keep up with practical requirements.

Based on the above reasons, we have conducted the study on "Assessment of 5-minute run level of SEV Company Limited's staff in Industrial Zone 1 - Yen Trung - Yen Phong - Bac Ninh."

RESEARCH METHODS

In the research, we have used methods of analysis and synthesis of documents; Interview and discussion; Pedagogical observation, pedagogical test and Mathematical statistics.

RESULTS AND DISCUSSION

1. Studying the real status of 5-minute run level of SEV Company Limited's staff in Industrial Zone 1 - Yen Trung - Yen Phong - Bac Ninh

To assess the physical strength of SEV Company Limited's staff, we have used 5 reliable and informative tests to test 587 staffs including 228 staffs in the support office department (125 women and 103 men), 194 female staffs in manufacturing factory Main (finishing all speakers) and 165 men of CNC factory (outworking metal mobile cases). The results are in Table 1.

Table 1 shows that according to the standards of constitutional classification for Vietnamese people from 6 to 60 years old, the average of 5-minute run level of both male and female staff in the support office department and manufacturing factories is average and good. However, it is uneven in different ages due to the coefficient of variation $C_v > 10\%$.

2. Assessment of 5-minute run level for SEV Company Limited's staff in Industrial Zone 1 - Yen Trung - Yen Phong - Bac Ninh

To assess 5-minute run level for SEV Company Limited's staff, the study has made a comparison between the the standards of constitutional classification for Vietnamese

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Table 1. Real status of 5-minute run level of SEV Company Limited's staff in Industrial Zone 1 Yen Trung - Yen Phong - Bac Ninh

Age	Staff in support office department						Staff in manufacturing factories					
	Male (n=103)			Female (n=125)			Male (n=165)			Female (n=194)		
	$\bar{x}$	s	Cv	$\bar{x}$	s	Cv	$\bar{x}$	s	Cv	$\bar{x}$	s	Cv
21- 22	823	115	13.9	756	98	12.9	930	118	12.6	760	101	13.2
23- 24	827	116	14.02	750	110	14.6	934	119	12.7	755	96	12.7
25- 26	872	106	12.1	720	95	13.1	919	113	12.2	780	102	13
27- 28	866	114	131	742	108	14.54	894	114	12.7	775	101	13
29- 30	847	113	13.3	706	115	16.2	897	109	12.1	760	115	15
31- 32	839	96	11.4	724	86	11.8	890	104	11.6	772	107	13.8
33- 34	782	89	11.3	721	97	13.4	880	103	11.7	763	99	12.9
35-36	766	87	11.3	725	98	13.59	860	99	11.5	745	92	12.3
37- 38	759	91	11.9	727	95	13	855	98	11.4	735	91	12.3
39- 40	760	84	11	722	87	12	810	87	10.7	725	89	12.2
41- 45	739	96	12.9	701	89	12.6	791	91	11.5	716	96	13.4

Table 2. Comparison of level between 5-minute run of male staff in SEV Company Limited and results of Vietnamese constitution investigation

Age	Vietnamese constitution investigation (1)			Staff in support office department (2)			Staff in manufacturing factories (3)			Statistical difference		
	$\bar{x}$	$\pm s$	n	$\bar{x}$	$\pm s$	n	$\bar{x}$	$\pm s$	n	t ₁₂	t ₁₃	t ₂₃
21- 22	826	98.09	112	823	115	14	930	118	25	0.09	4.1	2.76
23- 24	836	121	120	827	116	13	934	119	25	0.26	3.73	2.67
25- 26	776	141	181	872	106	13	919	113	25	3.08	5.74	1.27
27- 28	768	138	186	866	114	13	894	114	25	2.95	5.05	0.72
29- 30	811	120	111	847	113	14	897	109	25	1.12	3.5	1.34
31-32	813	110	124	839	96	8	890	104	9	0.74	2.14	1.05
33-34	780	122	90	782	89	6	880	103	8	0.05	2.59	1.91
35-36	787	112	110	766	87	6	860	99	7	0.57	1.88	1.82
37- 38	784	121	184	759	91	6	855	98	6	0.65	1.73	1.76
39-40	740	106	88	760	84	5	810	87	5	0.51	1.73	0.92
41- 45	745	117	145	739	96	5	791	91	5	0.14	1.1	0.88

Table 2. Comparison of level between 5-minute run of male staff in SEV Company Limited and results of Vietnamese constitution investigation

Age	Vietnamese constitution investigation (1)			Staff in support office department (2)			Staff in manufacturing factories (3)			Statistical difference		
	$\bar{x}$	$\pm s$	n	$\bar{x}$	$\pm s$	n	$\bar{x}$	$\pm s$	n	t ₁₂	t ₁₃	t ₂₃
21 - 22	701	91.7	128	756	98	18	760	101	30	2.59	2.93	0.14
23 - 24	660	115	158	750	110	18	755	96	30	3.27	4.8	0.16
25 - 26	683	106	112	720	95	18	780	102	30	1.51	4.59	2.06
27 - 28	704	96.8	94	742	108	16	775	101	30	1.32	3.39	1.01
29 - 30	631	96	142	706	115	16	760	115	30	2.51	5.74	1.52
31 - 32	640	106	140	724	86	8	772	107	10	2.65	3.77	1.06
33 - 34	662	91	82	721	97	8	763	99	9	1.65	2.93	0.88
35 - 36	640	97	143	725	98	7	745	92	8	2.24	3.13	0.41
37 - 38	620	94	195	727	95	6	735	91	7	2.72	3.28	0.15
39 - 40	641	86	85	722	87	5	725	89	5	2.02	2.05	0.05
41 - 45	624	93	217	701	89	5	716	96	5	1.91	2.12	0.26

people from 6 to 60 years old with 5-minute run level between the support office department and manufacturing factories with both male and female staff in different ages. Results are in Tables 2 and 3.

Table 2 and 3 show that the general endurance is assessed by 5-minute run performance of male and female staff of SEV Company Limited at the age of 21 to 45, as follows:

+ As for staff in support office department:

- Most of male staff of the support office department has average level in 5-minute run, equivalent to the level of Vietnamese investigated constitution ($t_{\text{calculation}} < t_{\text{table}}$, at $p > 5\%$). The level of staff at the age of 25 to 26, 27 to 28 is better ($t_{\text{calculation}} > t_{\text{table}}$ at $p < 5\%$). They have same results with male staff in manufacturing factories. For young people at the age of 21 to 22, 23 to 24, they have worse performance in comparison with support office department's one. The performance is classified in average level as compared with the standards of constitutional classification for Vietnamese people from 6 to 60 years old.

- The female staff of the support office department have higher level of 5-minute run than Vietnamese investigated constitution ($t_{\text{calculation}} > t_{\text{table}}$ at $p < 5\%$). Such difference has statistical significance. Meanwhile, the performance of staff at the age of 25- 26, 27- 28, 33- 34, 41- 45 are worse ($t_{\text{calculation}} > t_{\text{table}}$, at $p < 5\%$) as compared with the performance of female staff in manufacturing factories, the difference is not statistically significant. The performance is classified in average level in comparison with the standards of constitutional classification for Vietnamese people from 6 to 60 years old.

+ As for staff in manufacturing factories:

- Most of male staff in manufacturing factories have much better level of 5-minute run than the level of Vietnamese investigated constitution ($t_{\text{calculation}} > t_{\text{table}}$ at $p < 5\%$). Such difference has statistical significance. Meanwhile, there are no significant difference at the age of 35- 36, 37- 38, 39- 40, 41- 45. It is equal to the level of male staff in the support office. For staff at the age of 21-22, 23-24, 25-

26, 27-28, 31-32, the performance has good level.

- Female staff of the in manufacturing factories have better level in 5-minute run than the level of Vietnamese investigated constitution, such difference has statistical significance ($t_{\text{calculation}} > t_{\text{table}}$ at $p < 5\%$). There is a negligible difference at the age of 25- 26, 27- 28, 33- 34, 41- 45. The performance of the staff at the age of 35- 36, 37- 38, 39- 40, 41- 45 is average. It is equal to the level of female staff in the support office department. The performance is classified in good level in comparison with the standards of constitutional classification for Vietnamese people from 6 to 60 years old.

CONCLUSION

The research results show that most male and female staff's 5 - minute run at of SEV Company Limited is average and good. This performance is equivalent or better in comparison with the level of Vietnamese investigated constitution at the same age and gender. In the company, the endurance of staff in the support office department is lower than that of both male and female staff in manufacturing factories.

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