HUMAN RESOURCES MANAGEMENT WITHIN THE PROCESS MANAGEMENT IN SMALL AND MEDIUM-SIZED ENTERPRISES

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Abstract

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Sector of small and medium-sized enterprises is regarded as the backbone of the economy and a driving force of innovation, employment and social integration. Development of the sector of small and medium-sized enterprises in the Czech Republic has a substantial impact on economic and social development of the country and its various regions. This article deals with the human resources management in small and medium-sized enterprises, because it is more than obvious recently that the prosperity of the organization is depended on human resources and management of them can determine not only whether the organizations succeed, but whether it will be able to survive in turbulent conditions in the present world. The main aim of this paper is to analytical describe the monitoring the process of human resources management in selected categories of enterprises by business activity and number of employees including statistical analysis of causal effects. Further to analytical describe the evaluation the process of human resources management and indicators of this process, which are monitored by small and medium-sized enterprises. To achieve this aim were used selected primary data collected in the project GAJU 068/2010/S titled “Process management and its possible implementation in small and medium-sized enterprises”.

human resources management, process management, small and medium-sized enterprises

Small and medium-sized enterprises are the driving force of business, growth, innovation and competitiveness and are also a major employer in worldwide economy. According to Kotlárová (2011) the share of small and medium-sized enterprises in EU comprises over 99% of European companies and provides over 60% job vacancies. This fact is for Czech Republic confirmed by the report about the development of small and medium enterprise, which shows that the share of small and medium-sized enterprises in the total number of active businesses was 99.84% in 2011. Employee’s contribution of small and medium-sized enterprises on total number of employees in Czech Republic created 60.85% (Department of Industry and Trade, 2011).

In today’s global economy, which is constantly growing and evolving, it is no longer space for businesses that still remain in the old and rigid structures and approaches. Modern enterprises must actively attempt for its development and open to their surroundings, find the opportunities to change and not be afraid to use them to own advantage (Reinhardt, 1998). Absolutely necessary becomes the customer orientation, which ensures right setting up of the process management, which according to Burlton (2001), together with information, technology and human resources becomes assets of every organization. Enterprise can keep pace with the dynamic market trends thanks correctly conceived management within the organization, which is in agreement with the strategies (Adler, Mandelbaum, Nguyen, Schwerer, 1995).

According to Kleibl, Dvořáková, Šubrt (2001), one of the most important factors influencing the
success or failure of organization in a challenging competitive environment of market economy is the quality of human factor. Since the beginning of formation was the personnel management considered as an important and integral part of the management process and its deficiencies negatively influenced the quality of functioning of the organization (Welch, 1994).

The following decade will be a decade of human resources (Ulrich, 2009). The increasing pace of change induced by technologies, globalization, growth, profit and meeting of customer requirements build the capacities of the workforce and the ability of organizations to the centre of attention (Scarborough, 2003).

The personnel work is in modern managing organizations the main interest of management and is being given special attention because of a person with his skills is a driving force of the company and the human work and work behaviour depends on how the organization will be successful and competitive (Schuler, 1992). Kotey, Slade (2005) mention that such should be primary in small and medium-sized enterprises, whose success and survival depends on good personnel work and capable, competent, contented and motivated work team much more than it is in large organizations.

METHODS AND RESOURCES

The main aim of this paper is to analytical describe the monitoring the process of human resources management in selected categories of enterprises by business activity and number of employees including statistical analysis of causal effects. Further to analytical describe the evaluation the process of human resources management and indicators of this process, which are monitored by small and medium-sized enterprises.

For this paper were used the collected data within the project GAJU 068/2010/S titled “Process management and its possible implementation in small and medium-sized enterprises”. 187 random chosen small and medium-sized enterprises of the South Bohemian region participated in the research. Basic characteristic and elements of process management were surveyed by structured questionnaire during September 2010 to April 2011. The questionnaire was supplemented by controlled interviews with managers or owners. Within the framework of this paper is to hold forth the process of human resources management, which monitor whole 94% of studied companies, including its evaluation managers and owners. The evaluation was carried out on a scale of 0–100%, where 0% signify no introduction of the process or absolute dissatisfaction with the process and 100% signify absolute satisfaction with the established process.

Research sample of small and medium-sized enterprises was divided for the purpose of this paper according to the business activities and the number of employees. For dividing according to the business activities there were used the classification of economic activities CZ-NACE, but in a simplified form. Within the secondary sector of the economy are a business trade (13% of surveyed enterprises), services (19% of surveyed enterprises), building industry (26% of surveyed enterprises) and production (41% of surveyed enterprises). To categorization by the number of employees were enterprises divided as follows: 1–9 employees (11% of surveyed enterprises), 10–24 employees (36% of surveyed enterprises), 25–49 employees (20% of surveyed enterprises), 50–149 employees (24% of surveyed enterprises) and 150–249 workers (9% of surveyed enterprises).

Examined data were statistically processed and analyzed in MS Excel 2010 and Statistica 10. Relative and absolute frequency were analyzed and complemented by graphical analysis. Because of the data do not meet the parameters for the use of probabilistic statistical methods, there was the causal effect between monitoring the process of human resources management and the selected categories used nonparametric method Kruskal-Wallis test (H test criterion [degrees of freedom df, the number of observations N]). Data were analyzed for significance level $\alpha = 0.05$, therefore the results are presented with 95% probability. Null hypothesis $H_0$ claims that between the monitoring process of human resources and entrepreneurial activity (or number of employees) there is no relationship, while the alternative hypothesis $H_1$ expresses that exists difference between samples, that there is some relationship. The validity of hypotheses has been drawn on the p-value. In case of rejection of the null hypothesis in favour of the alternative was to analyze the observed relationship used correlation coefficient $r \ (-1 < r < 1)$.

RESULTS AND DISCUSSION

The definition of small and medium-sized enterprise is based on the Commission Regulation No. 800/2008. This paper deals with the one of the basic criterion for assessing the size of the enterprise concretely the number of employees. Micro enterprises employ fewer than 10 people, small enterprises less than 50 persons and medium-sized enterprises employ fewer than 250 persons (European Commission, 2006).

Fig. 1 shows that enterprises engaged in business trade are the most represented by category of enterprises with 10–24 employees (36%) and with 1–9 employees (32%). Services usually provide enterprises with 10–24 employees and with 50–149 employees (both 35%). Monitored enterprises of building industry usually employ 10–24 employees (46%) and 25–49 employees (22%). Production enterprises are usually classified in the category of enterprises with 10–24 employees (31%) and with 50–149 employees (26%).

Tab. I shows that the process of human resources management monitors all the selected category
of small and medium enterprises. According to the business activity this process monitors 96% of business enterprises, 97% of companies providing services, 94% of building industry and production enterprises.

According to the number of employees the process of human resources management monitors 76% of enterprises with 1–9 employees, 96% of enterprises with 10–24 employees, 97% of enterprises with 25–49 employees, 98% of enterprises with 50–149 employees and 100% of enterprises with 150 to 249 employees.

Causal effects monitoring process of human resources management between the selected SMEs by business activities and number of employees were investigated by using non-parametric statistical methods Kruskal-Wallis test.

First, the relationship was tested between monitoring the process of human resources management within the business activities.

\[ H(3, N = 190) = 0.8224200 \]

\[ p-value = 0.8441 > \alpha = 0.05 \]

The above test is obtained with a 95% probability that failed to reject the null hypothesis that is between the studied variables there is no relationship.

Furthermore, the relationship was tested between monitoring the process of human resources management and all selected categories of enterprises by number of employees.

\[ H(4, N = 190) = 16.82051 \]

\[ p-value = 0.0021 > \alpha = 0.05 \]

With 95% probability it manages to reject the null hypothesis in favour of the alternative, which says that among the studied variables there is a certain relationship. This relationship was further analyzed via the correlation coefficient r.

\[ \text{Correlation 1–9 employees } \alpha 10–24 employees r = -0.141017 \text{(14 %)} \]

\[ \text{Correlation 1–9 employees } \alpha 25–49 employees r = 0.597062 \text{(60 %)} \]

\[ \text{Correlation 1–9 employees } \alpha 50–149 employees r = 0.482733 \text{(48 %)} \]

\[ \text{Correlation 1–9 employees } \alpha 150–249 employees r = 0.8622263 \text{(86 %)} \]

\[ \text{Correlation 10–24 employees } \alpha 25–49 employees r = -0.236047 \text{(24 %)} \]

\[ \text{Correlation 10–24 employees } \alpha 50–149 employees r = -0.291936 \text{(29 %)} \]

\[ \text{Correlation 10–24 employees } \alpha 150–249 employees r = -0.121902 \text{(12 %)} \]
Correlation 25–49 employees \( \alpha \) 50–149 employees \( r = \)
\[ 0.808040 \] (81%)

Correlation 25–49 employees \( \alpha \) 150–249 employees \( r = \)
\[ 0.316130 \] (32%)

Correlation 50–149 employees \( \alpha \) 150–249 employees \( r = \)
\[ 0.417298 \] (42%)

Correlation coefficients showed dependency monitoring the process of human resources management across individual enterprises by number of employees. Surprisingly, the strongest correlation was observed in enterprises with 1–9 and 150–249 employees (86%), as well as in enterprises with 25–49 and 50–149 employees (81%). For enterprises with 1–9 and 25–49 employees is a relationship of 60% and between enterprises with 25–49 and 150–249 is a 52% addiction.

It should be noted that the evaluation process relates to the satisfaction of the establishment and functioning of the process, not the results indicators to businesses in the area of human resources management deal.

Fig. 2 shows that the process of human resources management evaluates the best enterprises providing services (51% of these enterprises that process evaluates between 81–100%). 27% of enterprises providing services this process evaluate between 61–80%. Business trade evaluate the process of human resources management from 36% between 61–80% and 32% between 81–100%, 24% of these companies evaluate the process average, between 41–60%. Enterprises engaged in building industry frequently evaluates the process of human resources management between 61–80% (48% of them) and between 81–100% (32% of these enterprises). Production enterprises evaluate the process in 37% between 81–100% and 31% between 61–80%.

Fig. 3 shows that most enterprises, regardless of size, evaluate the process of human resources management positively. Micro-enterprises, i.e. enterprises with 1–9 employees evaluate this process from 48% between 61–80% and 24% of these enterprises evaluate this process between 81–100%. Enterprises with 10–24 employees evaluate the process by 42% between 81–100%, in the evaluation of 61–80% is ranked 38% of these enterprises.
Enterprises with 25–49 employees usually evaluate the process of human resources management between 81–100% (39% of enterprises). Enterprises with 50–149 employees evaluated this process as often between 61–80% and 81–100% (36% of these enterprises). The largest monitored companies, i.e., companies with 150–249 employees evaluated the introduction of the process of human resources usually between 81–100%.

Table II shows that enterprises (without focusing on business activity) usually evaluate the productivity of work (62% of companies), then most often staff selection (59%) and the utilization of working hours (53%), then at least monitor the fluctuation (33%) and the time on training new workers (25%). Enterprises of business trade often follow the utilization of working hours (72%), productivity of work (60%) and employee satisfaction (also 60%). Enterprises providing services monitor staff selection and qualifying development (68%). Productivity of work appears only in third place with 57%. The building industry most monitors again the productivity of work (66%) and staff selection (60%). For production is the largest frequency again in productivity of work (63%) and the staff selection (58%).

<table>
<thead>
<tr>
<th>Indicators</th>
<th>Total frequency</th>
<th>Business activities</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Business trade</td>
<td>Services</td>
</tr>
<tr>
<td>Productivity of work</td>
<td>62%</td>
<td>60%</td>
</tr>
<tr>
<td>Staff selection</td>
<td>59%</td>
<td>52%</td>
</tr>
<tr>
<td>Utilization of working hours</td>
<td>53%</td>
<td>72%</td>
</tr>
<tr>
<td>Sickness rate</td>
<td>45%</td>
<td>52%</td>
</tr>
<tr>
<td>Qualifying development</td>
<td>45%</td>
<td>44%</td>
</tr>
<tr>
<td>Accident rate</td>
<td>44%</td>
<td>52%</td>
</tr>
<tr>
<td>Employee satisfaction</td>
<td>44%</td>
<td>60%</td>
</tr>
<tr>
<td>Fluctuation</td>
<td>33%</td>
<td>36%</td>
</tr>
<tr>
<td>Time on training new workers</td>
<td>25%</td>
<td>16%</td>
</tr>
</tbody>
</table>

**SUMMARY**

The main aim of this paper was to analytical describe the monitoring the process of human resources management in selected categories of enterprises by business activity and number of employees including statistical analysis of causal effects. Further to analytical describe the evaluation the process of human resources management and indicators of this process, which were monitored by small and medium-sized enterprises. For this paper were used the collected data within the project GAJU 068/2010/S. Examined data were analytically and statistically processed.

The research results showed that the process of human resources management has implemented the majority of monitored enterprises (94%). The best this process evaluated enterprises providing services. 24% of micro-enterprises this process evaluated between 0–20%, this implies that this process is not at all established. Given the number of employees it is logical, because small business owners do not see the need to monitor this process.

Monitored companies, regardless of business activities, usually follow productivity of work, staff selection and utilization of working hours. It is obvious that the owners mostly used hard elements of management and require from their employees perfect results. In the knowledge society is desirable to use soft elements of management. From examined indicators deal primarily with the care about qualifying development and employee satisfaction. Just employee satisfaction watching most enterprises engaged in business trade (60%) and enterprises providing services (54%). Qualifying development of their employees often monitor enterprises providing services (68%).

The basic condition for business success is awareness of the fact that people are the greatest wealth of enterprises and that their management decides whether the organizations succeed or not. It is therefore desirable to enterprises on basis of the results appropriately put the soft elements of management in own practice.

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