



Article

Comprehensive Development Of Labor Resources In A Changing Environment

Boltaboev Dilmurod

1. Independent Researcher of Namangan State Technical University

*Correspondence: boltabaevdilmurod22@gmail.com

Abstract: The article thoroughly analyzes the theoretical foundations and practical mechanisms for the comprehensive development of labor resources in the context of a changing external environment. Globalization, digitalization, technological, and innovative changes occurring in contemporary economic systems are disrupting existing labor market balances and necessitating new approaches to labor resource development. From this perspective, the article comprehensively investigates the external and internal factors influencing the qualitative and quantitative development of labor resources, examining their interconnections through a systematic approach. Using Uzbekistan as a case study, the author scientifically analyzes specific challenges affecting labor resource development, such as vocational training levels, shortage of qualified personnel, interregional disparities, and labor market supply-demand imbalances. The article clearly identifies the causes and consequences of these issues and develops practical recommendations for effective labor resource management. The comprehensive measures proposed by the author aim to transform labor resources into high-quality human capital, enhance their competitiveness in the labor market, increase adaptability, and sustain economic stability. Additionally, the article provides specific proposals and recommendations for improving state policy, strengthening the regulatory framework, and developing practical mechanisms for comprehensive labor resource development. The article's findings can serve as a theoretical and practical resource for state and local governance bodies, labor market stakeholders, and researchers in the field of economics.

Keywords: labor resources, changing environment, comprehensive development, labor market, competitiveness, economic stability, human capital, transformation processes, systematic analysis, Uzbekistan.

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1. Introduction

One of the important components of the current global economic system is labor resources. Labor resources play a key role in ensuring the competitiveness of countries, increasing the rate of economic growth and achieving sustainable development. The acceleration of globalization, digitalization and innovative processes is causing constant changes in the labor market. This creates the need for a comprehensive approach to the development of labor resources [1].

Qualitative improvement of labor resources and their adaptation to a changing environment is becoming one of the main priorities of state policy today. In this process, the level of development of human capital and the effective use of labor resources are factors that determine the overall efficiency of the country's economy [2].

Problems in the field of labor resource development in Uzbekistan are becoming more and more evident in modern economic conditions. In particular, factors such as the mismatch between supply and demand in the labor market, regional disparities, the shortage of qualified specialists, and the inadequacy of the vocational training system to

modern requirements further increase the need to develop comprehensive measures in this area [3].

The relevance of the study is reflected in the systematic analysis of these issues and the improvement of mechanisms for the comprehensive development of labor resources. In this regard, it is appropriate to compare foreign and domestic experiences and develop scientifically based recommendations for their effective use [4].

From this point of view, the purpose of this article is to analyze the theoretical foundations and practical solutions for the comprehensive development of labor resources in a changing environment, using the example of Uzbekistan, and to propose a set of specific measures aimed at solving existing problems.

Various changes occurring as a result of development lead to an increasing demand for labor resources, the development and improvement of production processes, primarily requiring high-skilled workers who are able to produce competitive products and provide competitive services. In such conditions, the need for comprehensive development of labor resources is increasing. In all periods of development, attention has been paid to the development of labor resources. Many scientists and researchers have dealt with the development of labor resources. In their studies, the issues of organizing labor resources in a way that ensures their effective functioning have been studied and have undoubtedly led to great results. The task now is to ensure higher labor productivity through the comprehensive development of labor resources and create employees who can ensure competitiveness. Today, an employee working in production, in addition to responsibility for the work he performs, must also take responsibility for the process, for the organization of production, for competitiveness. Any manufacturing enterprise must implement innovative activities and, as a result, ensure an increase in economic efficiency. Various changes taking place in economic development and society place increased attention on innovations in production processes, the need to organize and implement innovative processes at the forefront. This process requires the participation of not only specialists, but also all labor resources, and competitiveness must be ensured as a result of such activities.

Analysis of literature on the topic

The analysis of the literature on this topic was carried out on the basis of the study of scientific developments related to the development of labor resources, and their main scientific and practical ideas were analyzed in detail. Theoretical approaches and practical research in the field of complex development and management of labor resources are widely covered in the reports of the International Labor Organization [5], the World Bank [6], Becker's human capital theory [7], and the works of domestic scientists such as Kudratov and Saidov [8], Abdurakhmanov and Kayumov [9].

While foreign literature studies changes in the labor market and concepts related to human capital, especially the impact of digital transformation processes [10], domestic literature focuses on specific problems in the Uzbek labor market and measures to eliminate them [11]. In addition, international experience in the development of labor resources was also widely analyzed [12, 13].

Based on the above sources, a deep scientific analysis of the various views of the authors was carried out, and the specific features of each source were identified.

2. Materials and Methods

The research methodology of this article is aimed at a comprehensive analysis of labor resources and improving the mechanisms for their development in a changing environment, and is based on a number of scientific research methods and approaches.

First of all, the study analyzed the current state, development and prospective trends of labor resources based on a systematic approach. A systematic approach allows us to reveal the interrelationships of various economic, social and political factors related to labor resources, their components and mechanisms of interaction.

At the same time, the article used the method of comparative analysis. This method made it possible to identify the most effective mechanisms for the development of labor resources by studying the experience of domestic and foreign countries. In particular,

state policy and strategic measures on labor resources in developed and developing countries were studied in depth, and their aspects that can be applied in the conditions of Uzbekistan were analyzed.

Economic and statistical analysis methods also form an important component of the research methodology. In this process, official statistical data on the labor market of Uzbekistan, as well as reports published by international economic organizations, were used. Through statistical analysis, important indicators such as labor market demand and supply, unemployment rate, employment indicators, and the dynamics of qualified personnel training were analyzed.

Also, the expert assessment method was used in the qualitative analysis part of the study. Interviews and questionnaires were conducted with leading specialists in the country's labor market. The opinions and recommendations of experts identified the main problems in the complex development of labor resources, their causes and solutions.

The scientific-theoretical analysis method was used in the main part of the theoretical approaches in the study. At this stage, the human capital theory, labor market and resource development theories developed by foreign and domestic scientists were studied in detail. This theoretical analysis made it possible to form a conceptual basis for the development of labor resources.

Modeling and forecasting methods were also used to form the results of the study that can be applied in practice. In particular, scenarios for the development of labor resources were developed and their prospective results were forecast. This is important in improving the process of making management decisions in the field of labor resources.

The above-mentioned methodological approaches made it possible to develop scientifically based recommendations for comprehensive development of labor resources.

3. Results

The results of the analysis conducted during the research revealed the following main problems in the development of labor resources: mismatch between supply and demand in the labor market, territorial disparities, shortage of qualified personnel, and shortcomings in the vocational training system.

Statistical analyses showed that the shortage of qualified personnel in specialties in high demand in the labor market is 25-30%. In particular, a shortage of specialists in the field of digital technologies, information and communications, and engineering and technical personnel was identified.

The results of the comparative analysis showed that in foreign countries there is a high level of compatibility between the educational process and practice in the development of labor resources. In particular, in countries such as Germany and South Korea, the system of vocational education and training is organized in cooperation with employers, which leads to an increase in the effectiveness of this system.

According to the results of the expert assessment, it was noted that for the effective development of labor resources in Uzbekistan, it is necessary to strengthen the mechanisms of cooperation between vocational educational institutions and employers. It was also determined that it is advisable to study regional labor markets and develop appropriate programs based on them to reduce unemployment [14], [15].

Based on the results of the study, specific proposals and recommendations were developed for the comprehensive development of labor resources.

Various directions have been developed in the development of labor resources, and researchers have paid attention to only some of their aspects. In particular, O.S. Pavlova studied increasing labor productivity in energy enterprises. She argues that increasing labor productivity by increasing the level of motivation of labor resources in order to increase the efficiency of industry enterprises leads to employee development. L. Kvint, on the other hand, justifies the need for strategic management of labor resources for their development. This strategic management is based primarily on the methodology of implementation taking into account the interests of labor resources. In her opinion, directing labor resources to final results should be carried out through their interests. To implement strategic management, it is important to have specialists who can see far

ahead, to have strategic leaders. They must be able to evaluate all employees who are working, identify the existing advantages of the activity, determine strategic goals and ensure the achievement of these goals. In this process, it is important to use incentives in their place, to awaken motives that allow them to direct them based on identifying their interests. Incentives alone are not enough to increase the effectiveness of labor resources. In order to motivate labor resources to work effectively, they need to be "awakened". It is necessary to make them feel that they are the most necessary "bolt", element of the production enterprise. It is necessary to make them feel that labor resources are the main source of livelihood for them in the enterprise in which they operate. To this end, the principles, methods and techniques of management should take into account the directions of comprehensive development of labor resources. Comprehensive development of labor resources should include the following directions:

1. Effective selection of labor resources. To ensure competitiveness in the enterprise and to implement innovative activities, to have labor resources that can ensure the effective use of tools and material resources. The main objective of this competition is to have labor resources with experienced and effective skills.
2. Increasing the level of organization of labor resources.
3. Organization of work on a scientific basis.
4. Organization of working conditions.
5. Improvement of working methods.
6. Formation of employees who maintain order.
7. Creating an effective system of incentives.
8. Creation and introduction of a system of objective standards.
9. Ensuring compliance with established standards.
10. Organization of training.
11. Organization of innovative activities of employees.
12. Ensuring the participation of employees in the process of solving management issues and making decisions.

In the implementation of the directions of complex development of labor resources, the goal is to improve the mechanism of implementation of the enterprise's activities, optimize production costs and eliminate the production of competitive products. All activities are carried out around this goal. Efforts are made to increase labor productivity by finding and using new tools in all directions. If increasing labor productivity in the implementation of the directions of complex development of labor resources is its economic task, then its psychophysiological task is to take measures to maintain the health of employees during work and restore the energy expended. Maintaining their health and working capacity is an important task during the use of labor resources. Because the idea that we need an employee only today and at the present time is wrong. In order for the employee to maintain high productivity and continue to work effectively in the future and beyond, the psychophysiological task of comprehensive development of labor resources must be fulfilled.

Successful implementation of directions for comprehensive development of labor resources requires rational use of incentive mechanisms. It is of great importance for enterprise managers to correctly select and implement the priority of interests. There is a common interest in the enterprise, the interests of employees and the interests of the manager. Many managers are a little confused in choosing the priority and sequence of these interests, and as a result, it becomes difficult to achieve long-term strategic goals, which may be accompanied by failure in their activities. Therefore, managers should try to maintain the priority of the interests of the enterprise's employees and the enterprise when choosing the sequence of interests. When motivating, it is necessary to pay attention to employees who have made a significant contribution to achieving the goals of the enterprise and to provide incentives in accordance with their contribution. This motivates and stimulates employees to achieve operational efficiency.

In the process of selecting and implementing directions for the complex development of labor resources, it is of great importance to create a model and perform actions based on this model. This model should take into account the following elements:

- X1 - determining the goals of the activity and determining ways to achieve them;
 - X2 - distribution of functional tasks;
 - X3 - formation and improvement of the remuneration system;
 - X4 - clarification of powers;
 - X5 - formation of a system for assessing production efficiency.
- $X_1; X_2; X_3; X_4; X_5 \rightarrow M \rightarrow \text{optimization}$

The main goal of this model is to optimize labor productivity (μ), that is, to ensure high growth rates. In order to fulfill the tasks set in this model, it is necessary to observe a number of principles. These principles include:

- establish mutually effective relations;
- maintain working capacity;
- to achieve competitiveness;
- targeting the final results;
- compliance with legal standards;
- social justice;
- truthfulness;
- transparency;
- precision.

In the conditions of various changes taking place at present, the demand for employees working in the economy and its branches and enterprises is changing. Current employees should be able to think independently, have the ability to make scientific and creative conclusions and, as a result, be able to make effective decisions independently. Modern employees are adapting to these changes and are increasingly interested in intangible factors instead of material factors and the resulting material incentives. They are striving to reflect themselves. They are trying to participate in the activities of organizations, while becoming an important factor in the development of this organization. They are striving to make decisions through independent thinking. These are important elements of D.M. Gregor's theory of "U".

Issues of increasing productivity of labor resources through comprehensive development are becoming more relevant in the environment of changes. Douglas McGregor created his theories "X" and "U" for the effective management and development of labor resources. Employees working in enterprises and organizations are different. They behave differently in a changing environment. D. McGregor, who identified the differences in their attitude to work and the enterprise, announced the theories of "X" and "U" on personnel management. According to D. McGregor's "U" theory of personnel management, "Labor is a natural process. Therefore, if all the conditions available in it are good, working people not only take responsibility, but also strive for responsibility. They are not afraid to take on additional responsibility. If the organizational goals of the enterprise are fully explained to working people, they will manage, control themselves, and strive for success. According to this theory, people consider achieving goals to be a reward.

4. Discussion

They solve problems that arise during their work in a positive way, and they try to solve tasks themselves.

According to the "U" theory of personnel management, managers give their subordinates complete freedom, ensure their participation in making decisions that are important for the organization. This category of people strive for responsibility, therefore, it is necessary to try to satisfy their needs."

According to this theory, employees who are suitable for this type of work do not appear by themselves, they need to be trained. This task must be performed by managers. They must create opportunities for their subordinates to think independently and make decisions taking into account the situation. To do this, it is necessary to constantly improve the level of knowledge of employees, equip them with new knowledge, form skills for performing work and effective work, form the ability to think creatively, and create the

practice of knowing and applying innovations. Their activities should be aimed not only at achieving the goals of the organization, but also at achieving socio-economic results.

The changes taking place in the economy of our country place great demands on the development of labor resources. The main focus in labor resource management is on innovative activity. Innovative activity is necessary to increase high-performance labor and competitiveness on its basis. It is possible to achieve the production of low-cost and competitive products based on innovations. The activation and systematic nature of innovative processes has further accelerated the desire for the development of labor resources. Many researchers have conducted research in this area. One of the scientists of our country, K.Kh. Abdurahmanov, emphasizes: "The development of labor resources is the main goal of its management. This activity is carried out through the basic principles of labor resource management. The recognition of the priority of the development of a person who ensures the use of labor resources in a manner that harmonizes the interests of the enterprise and the employee is the most basic principle of labor resource management."

The comprehensive development of labor resources in industrial enterprises creates a number of advantages. In particular, the specialization of the organizational structures of the enterprise's management units occurs due to an increase in the quality of labor functions and the formation of special skills. Due to this, the activities carried out by the units become more specialized and their contribution to the goals of the organization increases, and the ability to independently make effective decisions increases. As a result of comprehensive development of labor resources, performance indicators of management departments are formed and increase. As a result of the comprehensive development of labor resources, the quality of work increases and competitiveness increases, see Figure 1.

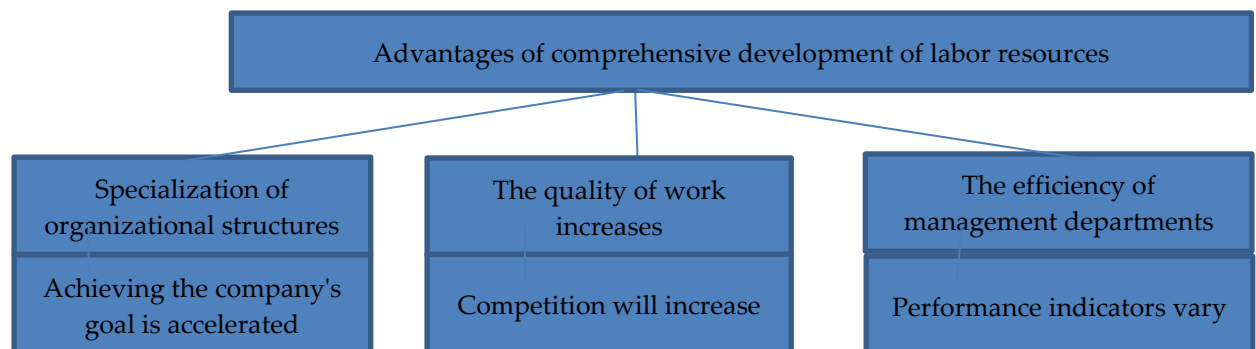


Figure 1. Advantages of comprehensive development of labor resources

When creating a mechanism for the comprehensive development of labor resources, it is necessary to pay attention to the following:

1. Studying the demand and supply of qualified personnel.
2. Improving the mechanism for the training and retraining of qualified labor resources
3. A mechanism for identifying short- and long-term problems related to the qualifications of employees
4. The main goal is to increase labor productivity and improve the quality of work
5. Developing measures to solve problems
6. Creating an organizational mechanism for managing and organizing labor resources

The implementation of the mechanism for the comprehensive development of labor resources will consist of 3 stages:

- Stage 1. Conducting a study on the state of labor resources
- Stage 2. Preparing a draft Program for the Development of Labor Resources. Expertise. Making changes.

Stage 3. Forming a mechanism for implementing the Program for the Development of Labor Resources.

Based on the practical application of the directions of complex development of labor resources, the labor productivity of employees working at enterprises will increase and the cost of manufactured products will decrease, which will lead to significant economic benefits.

5. Conclusion

A systematic approach to the complex development of labor resources is important, which will provide effective solutions to existing problems in the labor market.

In the conditions of Uzbekistan, the development of labor resources requires the integration of the system of vocational education and training with employers. In this direction, it is necessary to develop cooperation between the public and private sectors.

To solve the problem of the shortage of qualified personnel, it is necessary to widely introduce digital technologies in the vocational education system and use them effectively.

To reduce regional disparities, it is necessary to conduct an in-depth study of regional labor markets and develop development programs based on the specific characteristics of each region.

It is recommended to improve the mechanisms for forecasting labor resources and conduct regular research in this area.

REFERENCES

- [1] Sh. R. Abrorov and Z. M. Islomov, *Labour Market and Human Capital: Theory and Practice*, Tashkent: Fan va Texnologiyalar, 2021, p. 312.
- [2] G. S. Becker, *Human Capital: A Theoretical and Empirical Analysis with Special Reference to Education*, 3rd ed., Chicago: University of Chicago Press, 1994, p. 412.
- [3] G. H. Qudratov and O. Sh. Saidov, *Regional Features of the Development and Management of Labour Resources*, Tashkent: Iqtisodiyot, 2020, p. 276.
- [4] World Bank, *World Development Report 2019: The Changing Nature of Work*, Washington, DC: World Bank Group, 2019, p. 148.
- [5] International Labour Organization, *Global Reports*, 2021. [Online]. Available: <https://www.ilo.org/global/research>
- [6] World Bank, *Annual Economic Reports*, 2022. [Online]. Available: <https://www.worldbank.org>
- [7] G. S. Becker, *Human Capital Theory*. [Online]. Available: <https://press.uchicago.edu>
- [8] G. H. Qudratov and O. Sh. Saidov, *Labour Resources*, 2020. [Online]. Available: <https://elibrary.uz>
- [9] Q. H. Abdurakhmanov and N. M. Qayumov, *Labour Economics*, Tashkent: Iqtisod-Moliya, 2019.
- [10] O. S. Pavlova, "Risk Management in Russian Energy Enterprises," *Bulletin of Scientific and Technological Development*, no. 6, pp. 34–43, 2011.
- [11] V. L. Kvint, *The Concept of Strategizing*, vol. 1, St. Petersburg: SZIU RANHiGS, 2019, p. 132.
- [12] O. S. Kazakov, *Introduction to Management*, Tashkent: Fan Ziyosi, 2022, p. 378.
- [13] Q. Kh. Abdurakhmanov and Kh. Kh. Abdurakhmanov, *Labour Resource Management: Textbook*, Tashkent: Ilm Ziyoi, 2014, p. 272.
- [14] UNDP, *Human Development Report 2023: Breaking the Gridlock*, New York: United Nations Development Programme, 2023. [Online]. Available: <https://hdr.undp.org>
- [15] OECD, *Skills Outlook 2021: Learning for Life*, Paris: OECD Publishing, 2021. doi: 10.1787/0ae365b4-en