## ISSN 2181-8622

**Manufacturing technology problems** 



# Scientific and Technical Journal Namangan Institute of Engineering and Technology

INDEX COPERNICUS

INTERNATIONAL

Volume 9 Issue 2 2024









# PERSONNEL COMPETENCIES IN THE FIELD OF TOURISM PERSONNEL MANAGEMENT

## YULDASHEVA DILNOZA

Researcher of Tashkent state university of economics, Tashkent, Uzbekistan

**Abstract:** In this paper has been analyzed personnel competencies in the field of tourism personnel management. By the author has been described the content of the competency-based approach from the point of view of the specific characteristics of employees in the tourism sector. In addition, this article analyzes the general classification of competencies, on the basis of which a model for the formation of universal competencies of tourism employees has been developed. The purpose of the study is to create a model for the formation of universal competencies of employees at tourism enterprises. The study was carried out on the basis of content analysis of scientific works and methods devoted to the problems of forming and assessing universal competencies in tourism enterprises.

Keywords: tourism, practice-oriented experience, specialists, infrastructure, transport, logistics, quality, tourism products.

**Introduction.** In the world, the tourism sector is directly related to the development of all infrastructures It is embodied as a socio-economic phenomenon that has an indirect effect. Modern tourism is the top of the transport, social and service sectors Based on the level of development, it is ultimately the economy

Tourism in the Republic of Uzbekistan from the first days of our independence state support of the field, engaged in this field to create incentives for enterprises, as well as for the tourism sector Work on the formation of infrastructure continues at a rapid pace is being done.

It should be noted that on October 4, 1993, Uzbekistan became the World became the first member of the tourism organization among Central Asian countries. This in turn, it is very positive for the development of international tourism in Uzbekistan gave an impetus.

The tourism sector generates beneficial effects associated with its effective functioning. As a result of successfully operating enterprises, service innovations develop, new types of professional activities arise, and the quality of life of the population of host territories improves due to the growth of tourist flows and stimulation of job creation.

Literature review. The pandemic that began in 2020 has transformed organizational and managerial approaches to doing business. Significant changes were associated with restrictions on movement and cessation of activity in many areas of the economy. As a result, the service sector suffered significant losses; measures of state and regional support were required. The income of the hotel business, retail trade, tourism and excursion activities, catering, exhibition halls, passenger transport, tour operators and travel agencies decreased significantly (Tymoshenko, 2020). The most negative impact factor was interregional barriers to movement and the closure of transport



corridors. Many tourism market entities were forced to close, and a negative trend of reduction in the number of enterprises emerged.

The recovery of the industry should be carried out not only on the basis of the development of infrastructure, transport, logistics and quality tourism products, but also the development of human resources (Bey, 2018). In the context of digitalization and the influence of technology on data exchange and communication with consumers, the universal skills of tourism enterprise specialists are of particular importance (Kapse, Patil, Patil, 2012). Qualified personnel play an important role in providing quality services in the industry.

The issue of providing qualified personnel in the tourism sector is relevant for our country. This is due to the dynamic development of this industry within the country, which requires a large number of diverse specialists. The tourism industry itself also facilitates the employment of various categories of the population without special education to engage in a very wide range of areas of this activity, and contributes to the filling of a large number of employees with non-core education (Bitter, 2020).

Qualified specialists in the field of tourism must have a set of specific digital competencies, functionally at all stages of the provision of tourism services (Gupta, Fernandes, Jain, 2018). This is a key factor in achieving the desired results for tourism businesses and should be the basis for the design of training and workforce development programs.

**Analysis and results.** There are such competencies as key and universal for carrying out professional activities in various aspects. These abilities are of paramount importance for performing work activities in certain conditions.

The problem of the formation and development of universal competencies is related to personnel training at the educational level. For example, an employee with a certain level of specialization may be influenced by new requirements for professional skills under the influence of scientific and technological progress and production organization technologies (Moshkin, 2016).

Universal competencies are a significant tool for the universalization of an employee, as well as readiness for self-realization and self-development.

Here are some interpretations of universal competence in scientific works:

- a high degree of adaptation and mobility of a specialist in solving constantly emerging professional problems, based on the constant progress of abilities;

- the ability to implement theoretical knowledge when performing practical professional tasks, based on reflexive, analytical, situational thinking, which is important for many types of work in the field of tourism (Skulmovskaya, 2017).

It seems that universal competencies should be understood as the ability of one employee to perform several functions at a high level, which are delegated to various tourism specialists, due to a combination of skills, adaptation, and mobility.

There are many classifications of competence in both the local and foreign education systems. Figure 1 contains a classification of personnel competencies in the field of tourism from the works of different authors.



In the process of obtaining higher or secondary specialized education, a graduate in the field of tourism must have elements of professional competence endowed with universal features (Braganca, Costa, Castellucci, Arezes, 2019).

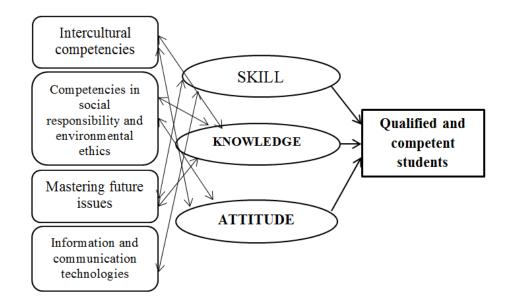


Figure 1. Classification of personnel competencies in the field of tourism.

Such skills include, first of all, analytical, forecasting, information and communication, project forecasting and support, necessary to perform most functions and processes associated with making operational, tactical or strategic decisions in various functional areas of the tourism business.

Paying special attention to the professional training of tourism personnel, it is necessary to ensure a synthesis of scientific and theoretical knowledge with personal qualities that characterize an individual's inclination to certain types of work activities and the success of fulfilling professional duties (Gokalp, Demirors, Eren, 2020).

The analysis of the number of tourists in Uzbekistan in 2019-2022 shows a significant recovery dynamics, although in 2022 this figure lags behind by 15%, the number of rooms compared to 2019 from 26,147 to 33,411, that is, an increase of 7,264 hotel rooms (21.7%).

Among the guests of Uzbekistan, in addition to local tourists and citizens of the country, Russians - 23.4%, Kazakhs - 18.9%, Tajiks - 14.4%, Turks - 7.7%. All foreigners living in hotels: Kyrgyz - 6.3%, Belarusians - 4.6%, Chinese - 3.2%, French - 1.7%.

In the pre-pandemic period of 2019, there were 84,800 foreign citizens, the largest share of which was Russians - 16.8 percent, Kazakhs - 15 percent, Tajiks - 6.3 percent, Chinese - 6.1 percent, Afghans — 5.7 percent, Turks — 5.5 percent.

It is noted that the total number of domestic tourists in the country increased from 8.8 million in 2016 to 14.7 million in 2019 and 15 million in 2021.



Over the past 4 years, 833 new: large, medium and small hotels have been commissioned in Uzbekistan. The total number of placement funds reached 1442. The number of rooms was 33,400, and the number of beds was 71,2.



Figure 2. Infographics: Tourism development in Uzbekistan in 2017-2022.

The implementation of the proposed model in practice in the region and other regions specializing in the provision of tourism and recreational services will be successful on the basis of network and cluster interaction between universities, specialized enterprises of the tourism and recreational complex, authorities, research centers and business incubators. Such cooperation will improve the quality of project work and exchange of experience, form a personnel reserve based on predicted directions and scenarios for the development of the tourism sector, and effectively plan personnel development programs.(Fig.2.)

To develop universal competencies of tourism personnel, it is proposed to use certain technologies aimed at continuous development, as well as to develop experience in organizational activities (Bondar, 2011; Charlwood, 2021). One of the foundations of the tourism sector is intercultural communication, which is closely related to the interaction between representatives of different peoples and cultures, thus it is proposed to model the interaction process in order to determine the productivity and unproductivity of communication methods. The analytical abilities of tourism personnel are also very important, as they are aimed at systematizing information and making informed decisions in their professional activities (Bai, 2017). It is necessary to evaluate and adjust the developed universal competencies of tourism personnel in order to increase the efficiency of performing work duties. One of the ways to assess universal competencies is the expert assessment method; this method is complex and difficult to carry out, but still provides the most complete conclusions about the competencies of employees (Pirogova, 2018; (Pirogova, 2018; Gonzalez, Capman, Oswald, Theys , Tomczak, 2019).



The formation of universal competencies is an important problem in the context of innovation and scientific and technological progress of labor duties not only in tourism enterprises. Since the qualifications of a specialist are determined not only by educational diplomas and personal qualities, but also by universal competencies, which are of particular importance at the level of support and service personnel in the field of hospitality and service.

**Conclusions.** Currently, Uzbekistan is fully open for foreign tourists. All restrictions on this have been removed. Positive trends are observed in the rapid recovery of the tourism sector in Uzbekistan, and the above figures indicate that by the end of 2022, up to 4.5 million foreign tourists entered country.

The problem of the formation and development of universal competencies is related to personnel training at the educational level. Universal competencies are a significant tool for an employee's high qualifications, as well as readiness for self-realization and self-development. The formation of universal competencies for work in the field of tourism should occur not only in educational activities, since it is impossible to acquire and master universal competencies only in the process of educational activities. Based on the data obtained on the state of tourism activity in the regions, it follows that the number of hotels and similar accommodation facilities has increased by 15% by 2021, and the need for qualified personnel has increased accordingly.

The most effective model for the formation of universal competencies of tourism personnel will be implemented in the context of network interaction with the involvement of interested business entities and management of the tourism and recreational complex. Practice-oriented experience, transformed by specialists in the process of scientific and teaching activities, conducting master classes and professional tests with students studying in the areas of economics and management in the field of tourism, will be useful.

#### References

1. Baj, T.V. (2017), "Vnedrenie kompetent-nostnogo podhoda v professional'noe turistskoe obrazovanie" [Introduction of a competence-based approach to professional tourism education], Vestnik Samarskogo universiteta. Istoriya, peda-gogika, filologiya, 8, pp. 59-68.

2. Batrakova, L.G. (2013), "Evolyuciya nauchnyh vzglyadov na ponyatie "chelovecheskie resursy" i ego sovremennaya specifika" [Evolution of scientific views on the concept of "human resources" and its modern specifics], Vestnik Len-ingradskogo gosudarstvennogo universiteta im. A.S. Pushkina, 2 (6), pp. 125-133.

3. Bej, A.A. and Bavykina, E.N. (2018), "Re-alizaciya kompetentnostnogo podhoda na predpri-yatiyah Altajskogo kraya" [Implementation of the competence approach at the enterprises of the Altai Territory], Human Progress, T. 4, 2, pp.19-27.

4. Bitter, N.V. (2020), "Uchet regional'nyh osobennostej v formirovanii obrazovatel'nyh programm po turizmu i gostepriimstvu v Altajskom krae" [Consideration of regional peculiarities in the formation of educational programs on



tourism and hospitality in the Altai Territory], Voprosy zhurnalistiki, pedagogiki, yazykoznaniya, 39 (2), pp. 197-205.

5. Bondar', E. V. (2011), "Formirovanie kom-petencij specialista sfery turizma" [Formation of competencies of a specialist in the field of tourism], Problemy i perspektivy razvitiya obra-zovaniya v Rossii, 9, pp. 103-114.

6. Braganca, S., Costa, E., Castellucci, P. and Arezes, M. (2019), A brief overview of the use of collaborative robots in Industry 4.0: human role and safety, Basel, Springer International Publishing, pp.641-650.

7. Charlwood, A. (2021), Artificial intelligence and talent management. In Digitalised Talent Management. Navigating the Human-Technology Interface, 1st Edition, Ed. by Sharna Wiblen, Routledge, New York, pp.122-136.

8. Gökalp, E., Demirörs, O. and Eren, P.E. (2020), "Public personnel management process capability assessment", Public Personnel Management, 49 (1), pp.111-140.https://doi.org/10.1177%2F0091026019833412

9. Gonzalez, M.F., Capman, J.F., Oswald, F.L., Theys, E.R. and Tomczak, D.L. (2019), "Where's the IO? Artificial intelligence and machine learning in talent management systems Where's the IO?" Artificial intelligence and machine learning in talent management systems", Personnel Assessment and Decisions, 5 (3), pp. 5. https://doi.org/10.25035/pad.2019.03.005

10. Gupta, P., Fernandes, S.F. and Jain, M. (2018), "Automation in recruitment: a new frontier", Journal of Information Technology Teaching Cases, 8 (2), pp. 118-125.

11. Kapse, A.S., Patil, V.S. and Patil, N.V. (2012), "E-Recruitment", International Journal of Engineering and Advanced Technology, 14, pp. 2249-8958.

12. Morozov, V. YU. (2015), "Osobennosti podgotovki kadrov v sfere turizm i gostepriimstva v Rossii: tradicionnyj i sovremennyj podhody" [Features of personnel training in the field of tourism and hospitality in Russia: traditional and modern approaches], Servis v Rossii i za rubezhom, 2 (58), pp. 88-99.

13. Moshkin, V.N. (2016), "Rol' povysheniya kvalifikacii v professional'nom razvitii specialis-tov v sfere turizma" [The role of advanced training in the professional development of specialists in the field of tourism], Nauchnyj rezul'tat. Peda-gogika i psihologiya obrazovaniya, 2 (4), S. 1822.

14. Pirogova, O.V. (2018), "Sostoyanie podgotovki kadrov dlya sfery turizma v Rossijskoj Fed-eracii" [The state of personnel training for the tourism sector in the Russian Federation], Inter-aktivnaya nauka, 6 (28), pp. 24-28.

15. Plotnikova, V. S. (2019), "Proektnaya deyatel'nost' v sfere podgotovki bakalavrov turiz-ma" [Project activity in the field of bachelor's degree training in tourism], SHkola budushchego, 1, pp. 76-87.

16. Pozolotina, E.I. (2018), "Metodika formi-rovaniya modeli kompetencij dlya krupnogo predpriyatiya" [Methodology for the formation of a competence model for a large enterprise], Up-ravlenec, T. 9, 6, pp. 68-77.

17. Reshetnikova, K.V. (2016), "Kompetent-nostnaya model' obucheniya magistrov v sfere gostepriimstva i turizma: opyt formirovaniya nauchno-issledovatel'skih i



analiticheskih kompe-tencij" [Competence-based model of masters' education in the field of hospitality and tourism: experience in the formation of research and analytical competencies], Universitetskoe upravlenie: praktika i analiz, 3 (103), pp. 95-103.

18. Skul'movskaya, L.G. and Kudinova, O.S. (2017), "Problemy realizacii kompetentnostnogo i praktiko-orientirovannogo podhodov v profes-sional'noj podgotovke kadrov dlya industrii turiz-ma" [Problems of implementing competence-based and practice-oriented approaches in professional training for the tourism industry], Sov-remennye problemy nauki i obrazovaniya, 5, pp.128-139.

19. Timoshenko, D.S. (2020), "Innovacionnye podhody i tekhnologii v turistskoj pedagogike" [Innovative approaches and technologies in tourism pedagogy], Vestnik Voronezhskogo gosudar-stvennogo universiteta, Seriya Geografiya. Ge-oekologiya, 1, pp. 115-123.

20. https://www.sciencedirect.com/science/article/pii/S2772411523000290

https://review.uz/en/post/infografika-razvitie-turizma-v-uzbekistane-v-2017-2022-

gg



# CONTENTS

### PRIMARY PROCESSING OF COTTON, TEXTILE AND LIGHT INDUSTRY

INDUSTRI	
Usmanova N., Abdukarimova M., Kamolova M., Ismoilova S.	3
Research on the process of building dress shapes in 3d space	5
Rayimjonov M., Rahimov F., Sarimsakov A., Muradov R.	
Increasing the efficiency of retaining device for fine and large heavy	13
mixtures in cotton raw materials	
Kosimov A., Ahmadjanov S.	
Design of the mechanical properties of the fabric used by wind yarn	19
spinning from cotton and polyester fibers	
Salokhiddinova M., Muradov M.	
Ways to improve the efficiency of moving device used in air transportation	27
of cotton	
Nazarova M.	33
Research of methods of antibacterial treatment of textile materials	
Sheraliyeva R., O'ralov L.	
Study of technological indicators of two-layer knitted fabrics obtained on	37
long Xing LXA 252 knitting machine	
Turdiyeva O'., Khojiyev A.	
Mathematical modeling of the development technology of selected leather	42
for the transformation assortment	
GROWING, STORAGE, PROCESSING AND AGRICULTURA	AL
PRODUCTS AND FOOD TECHNOLOGIES	
Uzaydullaev A.	
Research on the food safety of pomegranate juice and concentrate	49
production technology	
Kuzibekov S.	
Safety studies in soybean oil production process	56
Ismoilov K., Khamdamov A.	
Acceleration of heat and matter exchange processes in the final distiller with a convex-concave plate	62

#### Abdullaeva B., Soliev M.

Method of making syrup for cold drinks

Meliboyev M., Qurbanov U.

Compounds that determine their nutritional value based on the types of 73 food products



Nishanov O'., Atakhanov Sh., Mamajanova M.	70
Effect of energy drinks on the human body	79
Ikromova Y., Nuriddinov Sh., Hamdamov A.	84
Optimization of heat load in three-stage distillation of vegetable oil micelles	
Turg'unov Sh., Mallabayev O.	90
Use in a new receptor in functional bread making	
CHEMICAL TECHNOLOGIES	
Ergashev O., Bakhronov Kh., Esonkulova N., Asfandiyorov M.,	
Akhmadov M., Absalyamova I.	05
Determination of the inhibitory efficiency of the inhibitor synthesized based	95
on maleic anhydride by the electrochemical method	
Ergashev O., Rakhmatkarieva F., Davlatova O.	
Mechanism of H <sub>2</sub> O vapor adsorption in a type zeolites. The adsorption isotherms.	102
Yoqubjonova M., Boymirzaev A.	
Biomedical properties and applications of chitosan derivatives	107
Rajabaliyev N., Rahmonov J., Nigmatillayeva M., Rajabov Y.,	
Akbarov Kh.	
Thermodynamic study of the anti-corrosion properties of diciandiamide in	116
an acid environment	
Ochilov A., Urinboeva M., Abdikamalova A., Kuldasheva Sh.,	
Eshmetov I.	123
Study of rheological flow curves of ED20 emulsions	120
Nozimov E., Sultanov B., Kholmatov D., Sherkuziev D., Nodirov A.	
Phosphorus fertilizer technology activated from phosphorus powder and	129
mineralized mass	
Kadirova M., Sabirov V.	
	135
Results of mechanochemical synthesis of methylene blue complex with	155
d-metals	
Jalilov A., Sottikulov E., Karimova M., Boymirzaev A	
Synthesis of polycarboxylate plasticizer based on acrylic acid and apeg and	142
its gel chromatographic analysis	
Khusenov A., Ashurov M., Abdullaev O., Rakhmanberdiev G.	
Determination of optimal conditions for the extraction of gelatin from	149
secondary local raw materials	11/
Lutpillaeva M., Hoshimov F., Ergashev O.	
Synthesis of silver nanoparticles using various reducing agents and	155
stabilizers	100



Akhmadjanov I., Djalilov A., Karimov M.	
Studying isotherms of adsorption and desorption of nitrogen on a sorbent	164
synthesis for selective extraction of lithium	
Kalbaev A., Salixanov A., Seitnazarova O., Abdikamalova A.	
Change of cation exchange capacity during the thermal treatment of	171
bentonite and their textural characteristics	
MECHANICS AND ENGINEERING	
Obidov A., Shamshitdinov M., Mashrabboyev I.	
Reduce energy consumption by adjusting the electrodvigate speed of the	178
linter device	
Haydarova R.	
Development of boundary conditions for mathematical models of unsteady	184
water movement in water management facilities	
Bekmirzayev D., Qosimov E., Ismoilov A.	
Consequences of earthquakes and preventive measures based on foreign	189
experiences	
Aliev R., Eraliyev A., Nosirov M., Mirzaalimov A., Mirzaalimov N.	
Investigation of an improved solar water heater in comsol multiphysics	196
software	
Obidov A., Akhmadalieva D., Otaqoʻziyev D.	
Development of an experimental construction of a device for cleaning from	202
small piece of contaminants	
Obidov A., Mirzaumidov A., Abdurasulov A., Otaqoʻziyev D.	
Deformation of the shaft in torsion and the effect of torsion along with	208
bending	
Matkarimov P., Juraev D., Usmonkhujayev S.	
Study of stress-strain state of an earth dam using a three-dimensional model	217
of the structure	
Mamajonov Sh.	<b>22</b> 0
Methods of determining the efficiency of the cotton regenator in the cleaning	228
process	
	020
Establishment of the device for separation of fibers suitable for spinning	236
from the waste of the cotton cleaning process	
Kholboyeva Sh., Kosimov A.	243
Principles of classification of costs to ensure product quality in production	
Kholboyeva Sh., Kosimov A.	
Methodological processing of quality control of technological processes of	249
manufacturing enterprises	



Shoxobidinova Sh., Kosimov A., Mamadaliyeva D.	
General guidelines for quality management and technologies in the metallurgical industry supply chain	255
Tuychiev T., Turdiev H., Rozmetov R., Shorakhmedova M.	262
Effect of screw cleaner on cotton spinning	262
ADVANCED PEDAGOGICAL TECHNOLOGIES IN EDUCAT	ION
Kayumov M.	267
Enlightenment movement of Jadids in Khiva khanate	267
Alikhanov M.	273
Constitutional reforms in Uzbekistan during the years of independence	273
Alikhanov M.	
The struggle for constitutional monarchy in the khanate of Khiva at the	278
beginning of the XX century	
Azibaev A.	
Forecasting GDP growth and GDP per capita in Uzbekistan by the ordinary	284
least squares (OLS) regression analysis	
Tuychibayeva G., Kukibayeva M.	291
Overwiev of teaching English to teenagers in Uzbekistan secondary schools	
Ismailova Z.	296
Methodology for improving lexical competence of future english language teachers	290
Xuramov L.	
Algorithms for modeling function and medical signals in wavelet methods	302
ECONOMICAL SCIENCES	
Bekmirzayev B.	311
Agriculture development in ensuring economic security in Uzbekistan:	511
theory, analysis and prospects	
Mirzatov B.	• • •
Social evaluation of the youth behavior and value sphere in Namangan	318
region	
Khojimatov R.	204
The development competitiveness of silk industry in Namangan region	324
Maksudov A.	
The development and formation of competition of the market for the	330
products of the sewing and knitting industry	
Maksudov A.	
Government support of the garment and knitting industry within the scope	336
of business activity	

Yuldasheva D.	7/1
Personnel competencies in the field of tourism personnel management	341
Abdieva N.	
Development of small business and private entrepreneurship with the help	348
of investments	
Abdieva N.	250
The labor market and its effect on the economy	352
Yuldasheva D., Hashimov P.	260
Tax systems and their assessment criteria	360
Tajibayev K.	
Improving the mechanism of increasing competitiveness of small business	365
entities in local consumer markets	