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TOPICAL ISSUES OF THE PROCESS OF PREPARATION OF FUTURE TECHNOLOGY TEACHERS IN THE SYSTEM OF HIGHER EDUCATION

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Abstract

Development of each state in many respects depends on degree intensity branches of modern manufacture

Keywords: training curriculum, modernization, teacher training system, specialized subjects, higher education system.

1. Introduction

It is timely before a society puts complex problems, to prepare highly-skilled personnel, to train and bring up youth so that they meaningfully could work on all branches manufacture, have strong mastered professionally technological skills about modern manufacture. For this purpose it is necessary to optimize all process of activity of system of preparation of highly-skilled personnel (HSP), meeting the requirements in the conditions of the market. On it optimization of all process of activity of system of preparation of highly-skilled personnel of professional readiness of today remains in a number of actual problems. The system of preparation of highly-skilled personnel (SPHP) as socially - economic subject, is many-sided casual dynamic system and is considered an intellectual industrial complex.

Now objectively exists highly actual, the challenge - a problem of working out of essentially new mathematical models of training on the basis of the theory of stage-by-stage formation of intellectual actions which is enough not only considered all advantage of the new psychological theory, but also simultaneously would allow to have for any process of training and at its any stage the interconnected system of quantity indicators and process parameters.

In this case real preconditions to make training processes in as much as possible admissible degree operated and by that to reduce to a minimum influence of subjective factors of management by such difficult dynamic processes what training processes are will be created.

Psychologists, experts of various fields of knowledge develop for a long time accurate recommendations that and how to learn people when there can be non-staff situations, however, these recommendations as a rule are not taken into consideration. As a result of the country sustain huge losses, people on occasion

perish, besides the adverse psychological climate worsens activity of experts.

These and other lacks of system of vocational training of highly-skilled personnel press essential activation of scientific workings out on all spectrum of the problematic connected with efficiency of such preparation in all branches of a national economy.

In this connection an education system condition, processes Occurring, in it demand special, the approach and the form of creation of effective remedies and methods of preparation of highly-skilled personnel.

Answering modern requirements, are researches and introduction new pedagogical information technologies in practice for the purpose of management educational process.

Planning and management of process of preparation of highly-skilled personnel in the conditions of market economy is a difficult many-sided and actual problem. Hence, questions of forecasting and planning of requirement shots in branches, should lean against structures of shots on preparation levels, construction of models of a national economy of management, the theory of counts and a supply with information, and also some sections of sociology, economic and organizational planning, pedagogic psychology.

Quality of preparation of highly-skilled personnel is defined by the maintenance of curricula and the curriculums, to corresponding requirements of scientific and technical progress.

Scientifically proved drawing up of the curriculum is based on the qualifying characteristic and will be defined by the importance of each subject matter.

In market conditions the system of preparation of highly-skilled personnel (SPHP) in the activity should develop and improve modern requirements of service and manufacture. It means, that the system should reconsider gradually all covering process, problems including complex functions.

The system of preparation of highly-skilled personnel consists of such processes as organizational - methodological, educational, perfection of methods and the form of training, formation of qualifications and skills, optimization of after-hour training.

2. Main part

For optimization of all activity to system of preparation highly skilled shots it is necessary to investigate and analyze stage by stage above the told functional processes of dragging factors, and also a choice necessary providing parameters.

Let's try to prove and give scientifically productive decisions of the above-stated complex functions.

I. We will consider complex functions which are called organizational, - methodological, functional aspects of system of preparation of highly-skilled personnel. The given complex functions can be carried out, we will execute following structure problems;

- Scientifically economic analysis organizational, methodological structure of existing systems, preparations of highly-skilled personnel;
- The aprioristic analysis and revealing of influencing factors of organizational methodological functions of system of preparation of highly-skilled personnel;
- Economic substantiations of directions and ways of perfection of organizational-methodological structure of systems, preparations of highly-skilled personnel.
- A substantiation of economic aspects and the system approach to optimization of organizational-methodological system of preparation of highly-skilled personnel.
- Working out of the mathematician - statistical models of processing of the expert estimations given for a choice of providing parameters of optimum organizational structures of systems of preparation of highly-skilled personnel;
- Creation the general algorithm for optimum organizational structurization of systems of preparation of highly-skilled personnel.

Having solved above specified complex problems, we receive for efficiency of management the scientific tool which allows is proved to create and organize various HIGH SCHOOL it on requirements of branches of a national economy.

In research for optimization of activity SPHP it is taken and processed biographical data from branches of service working skilled shots and manufactures and having much year teachers of professorial structure of a higher educational institution. As a result research having about 30 million population as independent developed in Uzbekistan demands about 50 higher educational institutions and approximately 150 kinds of highly skilled professional shots. During time research of process to preparation HSP is developed 120 complex curricula, with use of existing curricula and to reduce addition on the basis of the received scientific conclusions. And also it is considered about professional features of curriculums with entering of some changes about 500 disciplines in blocks of professional disciplines. It is

offered the organization of study-material resources on the basis of the scientific conclusions.

In the given work we will result as an example from carried out works in the course of preparation for averages general educational (5 - 9) schools of the different countries different names bearing teachers of work, the teacher of technology, the teacher of common technique disciplines, the teacher of labour and vocational training and reflecting other terms of the teacher training young generation of labour technology.

In national education system the many thousands army of teachers will organise higher education system. However the system of higher education for successful performance these functions should define in conformity developing dynamics the population necessary quantitative volume of teachers and to consider during time to prepare with professional and skill, particularly and full to know a technique and a direction increase level of applied activity of teachers, as quality demanding object. After that preparing army of teachers from the party the system of higher education will be up to standard of the requirement.

The labour technology or labour training is as the bridge between development of a science and manufacture, is trained averages general educational (5 - 9) schools among others discipline for formation the general of labour skills at young generations and meaningfully to direct them to a trade.

In general educational (5 - 9) schools among group natural applied disciplines trainees of labour training, in a life to the country for young to generations the future on what branches happens at the future professional shots necessary general labour initial knowledge and skill for formation operate important with the factor. Enough many-sided skill everyone the future shots depends the acquired skill and initial basic knowledge discipline of labour training comprehensive schools. On this University and pedagogical institutes подготавливающие shots teachers of labour training should will execute practical action about increases of applied levels system. To ours of time acceptance of all documents on discipline labour training said, that on young generations the basic to train in technologies of creation of finished goods on a basis to processing of production and materials.

Present time in average general educational (5 - 9) schools labour training named Technology and the design making from «Sewing materials» and «Processing rural economic food production» Service, from one »Processing soil» agriculture Bases are conducted on covering a direction «Processing of wooden materials», »Processing metal materials». From this it is visible, working teachers of labour training in average comprehensive schools the structure, structure and features rural economic food production, wooden materials, metal materials, woven materials, in rural an economy soil should know accurately. Also the teacher should possess knowledge tools and technicians used for a while to processing of production and materials. For successful carrying out all a kind employment the teacher of labour training should possess and ymer methods to processing above specified to production and materials. Means modern technologies demanded to the teacher or labour training should possess a profound knowledge about

the aforesaid of production and materials, and processing tool technicians, also it is strong skills and qualification about methods to processing above noted production and materials.

In conformity with it preparing the teacher of labour training higher educational institutions of the curricula позволяющих ready 4 year bachelor degrees should consider about working out on scientific bases under requirements of average the general of educational schools. Necessary for requirements of average of comprehensive schools to consider following basic conditions.

first, the future teacher of labour training should know deeply production and materials, technology their processing.

second, the process received and acquired knowledge preparation are required on level giving enough young generations.

third, skills and qualifications concerning trades should be it is practically acquired process to preparation.

fourth final ended higher educational institution the teacher of labour training to give knowledge young to generations and to be able to form it practical skill.

fifth graduate the teacher who has ended a higher educational institution of labour training completely can successfully to organise occupied operating on all directions of labour training.

For full performance of the higher specified conditions educational plans on prepare the teacher of labour training to bring at the future shots of the teacher of labour training addition and change under modern requirements aspiration on level both giving knowledge and training skill of the master.

These addition and change should consider at future the teacher of labour training would allow on level the ready the master of the teacher is compared practically.

On preparing teachers of labour training confirm the scientific analysis of operating curricula, that these plans is based on old early methods and criteria, a current 4 years it is impossible be in time on a basis these criteria prepare teachers of labour training could enough and successfully would serve on country development. Operating in curricula much theoretical training, these theoretical training concern on engineering a sight. From it by itself it is visible, that the future teacher of labour training mastering of knowledge, skills and qualifications about activity of average general schools do not give the chance completely.

On ours opinion especially the general a trade, professionalism, a specialty, a trade choice, addition and other blocks of curricula ready teachers of labour training higher educational institutions is necessary to carry out methodical the analysis.

The basic part of curricula ready teachers of labour training should have trained disciplines of labour training and auxiliary disciplines. In curricula of the teacher of labour training the future the engineer the teacher, the teacher engineering science, the teacher of common technic disciplines and others concerning on theoretical training allowing prepare discipline trades engineering should reduce

a minimum three times and it is necessary to generalise. With the account generalisation the higher told opinion, on working out of curricula ready teachers of labour training we can give following the scientific basic recommendation.

The place (discipline) discipline «materials technology and technology of constructional materials» the ready operating curricula will replace to disciplines completely covering «bases compound technology of materials and production» containing data on food production of agriculture, materials of soil, a fabric, a tree and metals, and also technology on a basis change their structure, average comprehensive schools concerning to necessity.

Place discipline of operating curricula which completely do not cover (only processing of metals with cutting) necessities of training of average comprehensive schools will replace completely covering data processing products rural an economy, soil materials, materials, a tree discipline as «Bases of technology authorisation of service and productions».

In educational plans ready teachers of labour training to bring for training young specialties initial basic knowledge of economy of service and manufacture discipline «economy and managements service and manufactures.

In curricula of discipline entering into a course engineering i.e. the teori-technical mechanics, resistance of materials, the theory of mechanisms of cars, details of cars, hydraulics, heat of the technician taking into account the requirement of labour training an average of comprehensive schools, it is necessary to generalise and it is possible to name «the technical mechanics» or preparation «applied is closer to practical than the mechanic». Further as the applied mechanics the current of process of preparation of the second year of the first or second semestre is expedient to spend these disciplines. Whenever possible these disciplines should be spent by experts of labour training who well know labour training in average comprehensive schools.

In curricula ready disciplines a part technologies and design, service and bases of agriculture of a specialty should have on conformity of possibility with the account practical training deeply studying.

Place above specified broken disciplines expediently can the technology repair work during a life », «an expert water and gas use », «technologies welding works» which give the chance for labour and professional practical preparation young generation puts new pedagogical and applied disciplines as«.

Pedagogical and industrial practices specified in curricula ready teachers labour training to make with the account the requirement labour training of average comprehensive schools.

Let's more low result as an example received results research are developed by us educational the plan preparation of the teacher of labour training.

II. The Important role is played by function of educational process in management to system preparation of highly-skilled personnel. Functions of educational process solves to the problem through it will be executed following functional problems.

- Researches and studying of perspective forecasting of requirements it is national economic manufacture in highly-skilled personnel;
- Research and working out of a mathematical apparatus for processing of data of industrial expert data;
- Substantiation of ways and methods of perfection of optimisation of educational process;
- Working out of models and methods for a choice of optimum parametres providing a complex of curricula;
- To-working out it is probable - statistical models for planning of an optimum variant of uchebno-material resources.
- Creation the general algorithms for working out of optimum curricula and planning a corresponding optimum variant of study-material resources.

As a result of the successful decision above specified functional problems of educational process in system of preparation of highly-skilled personnel arise huge possibilities of working out of five or four year complex curricula of preparation of the highly-skilled personnel, providing today's requirements is national economic manufacture, and also corresponding study -material resources.

In given to work we will more low result as results of research some new to the put discipline and brought in curriculums addition and changes.

Discipline »Bases of compound technology of production and materials»

Educational the program of this subject consists of five (wooden materials, metal materials, sewing materials, soil and food production of agriculture) sections.

Structure, properties, features, alloys and metals their methods of reception, and also area their use.

Structure, properties, features, wooden materials and their methods reception, and also areas their use.

Structure, properties, features, sewing materials, classification sewing materials and their methods reception, and also areas their use.

Features of food production of agriculture, importance and their utility for human life, their compound chemical structure, carbohydrates, vitamins, etc.

Structure, properties, soil classifications, methods definition of feature and property of soil, fertility of soil.

Bases of processing of production of materials

Educational the program of this subject consists of five (processing of wooden materials, processing of metal materials, processing sewing materials, processing of soil and processing of food production of agriculture) sections.

Bases processing of metals, kinds and methods processing of metals, processing of metals with cutting, tools and classifications machine tools for processing of metals.

Bases processing wooden materials, ways and methods processing wooden materials, creation methods furniture production, tools and classifications machine tools

processing of wooden materials, ways and methods to work over woodworking machine tools.

Bases processing sewing materials, a basis of a design and clothes modelling, ways and modelling and design receptions, technology to processing synthetic sewing materials.

Bases of processing of soil in agriculture, ways and methods to soil processing before crops, Bases of increase fertility of soil, fertilizer, methods entering soil fertilizer.

Bases to processing of food production of agriculture, ways to processing of food production, feature processing of meat food production, ways culinary machining of food production.

Other disciplines developed curriculums in the curriculum noted.

III. Complex function of perfection of methods and the training form, are direct continuation and a substantiation of function of educational process and on the intellectually industrial activity will transform a human brain on level modern social a brain, giving the chance to organise and operate technologists of manufacture. It is complex function carries out the activity solving following functional problems.

- Research and economic the analysis existing systems, forms and training methods;
- Research and the analysis modern lines of a direction and ways of optimisation, forms and training methods;
- The aprioristic analysis and revealing of dragging factors on optimisation, forms and training methods;
- Economic and pedagogical the analysis theoretical preparation of existing system of training.
- Research and economic the analysis existing applied preparation of training of system.
- Working out of in a complex probable statistical model for processing and transformation is qualitative opinion of experts on quantitative estimations;
- Definition level of professional subjects of theoretical training on the basis of expert estimations;
- Definition value and places of special subjects on a basis to result of processing of expert estimations;
- Definition prognosis quantitative volume of subjects of theoretical training;
- Definition quantitative volume of subjects of applied training;
- Creation the general algorithms for a choice of optimum decisions of preparation of highly-skilled personnel branches corresponding with requirements is national economic manufactures;

Results above the offered works possibility of definition gives quantity and volume of hours of subjects at preparation of the curriculum for everyone future highly skilled shots,

and also a choice of an alternative variant on everyone offered subjects of curriculums.

IV. Function of formation of qualification and skills, takes a special place in system and it trains the future highly-skilled personnel modern technological abilities and experience. The basic aim complex function to hand over the alternative decision for working out of curriculums on the basis of expert opinions.

- Research and the analysis of existing system of formation qualification and skills;
- Researches and the analysis of existing system of formation of professional qualification and skills;
- Studying and the analysis existing systems of formation of qualification and skill social, economic, ecological, organising and others;
- Research modern lines and ways of optimisation of formation of qualification, skills;
- -Working out of models and methods formation qualification and skills of the future highly-skilled personnel;
- Working out possibly - statistical model of processing of expert data for formation, professional qualification and skills;
- Working out a mathematical apparatus reformative data of a qualitative expert estimation on quantitative for a formation choice social, economic, ecological, organising both other qualifications and skills;
- Creation the general algorithms of complex function for an alternative choice of the decision on formations of qualification and skills. As a result given in system though demands huge processing, scientific tools for transformation and to develop curriculums corresponding not looking on - complexities and requirements of the big works at processing, it gives expected scientific toolkit for transformation and working out of curriculums corresponding to requirements of formation of the skilled person, highly-skilled personnel providing to develop is national economic manufacture.

V. Complex function out of fixed, training plays important role at preparation of highly-skilled personnel covers itself many casual, individually - emotional conditions. On it in data complex functions reception necessary the information for the decision, demands huge scientific work and great volume to processing emotional expert data.

Complex Function training in system

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