

## **THE FORMATION OF INFORMATION CULTURE OF SENIOR PUPILS IN THE PROCESS OF PROFESSIONAL TRAINING BY MEANS OF CASE TECHNOLOGY**

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### ***Annotation***

*The performance of final qualifying work on the issue of the formation of information culture in the process of professional training of the students by means of case technology at the Municipal autonomous educational institution of Vladimir "City Interschool training centre N. 2" is reflected in this article.*

*The proposed project is an example of case technologies of the incident method is considered as a guide for the teacher to use in the professional training of high school students.*

### **Actuality**

The innovative processes taking place today in socio-economic life of the society, the development of information infrastructure brings up a number of new requirements to the quality of education, to the level of education of the school graduate. One of the most urgent problems facing education includes the formation of cognitive interests, intellectual and creative abilities in information activities, and is to generate information culture of high school students who know how to use modern technology in teaching and learning activities.

The notion of "information culture" is differently considered by scientists in various fields of science, which is reflected in its development and emphasizes its diversity. For example, G.A. Bordovsky and V.A. Izvozchikov in their studies include the philosophical and axiological elements in the concept of "information culture". The necessity of formation of information culture of students, especially of senior classes, is stipulated not only by the increased amount of information, but also by continuous improvement of information and communication technologies. Information outlook, understanding information picture of the world, knowledge of a variety of information sources and how to work with them, the ability to search, process, store, transmit and create new information, optionally using computer technology, information and telecommunications technology are the requirements for the school graduate given by the modern information society.

Professional training of senior pupils is considered by modern pedagogy as a reason of increasing the quality and fundamental of education. The training programs for high school students of the interschool training center are aimed at social adaptation, the formation of their positive motivation to get professional education and profession, which guarantee employment. Therefore, educational and informative activities are aimed not only at the formation of professional competences in the working specialties and employees, but also at the development of information culture of the future specialists. One of the most effective interactive means of formation of information culture of the senior students, in our opinion, are case-technologies.

Case-technology is a method of the interactive teaching for the short-term teaching on the basis of the real or invented situations, directed not so much on mastering of knowledge, but on forming of abilities, perfection of skills in information work and getting experience to resolve the disputes as a result of solving problem task.

Case in the pedagogical practice is a combined educational material or single informative complex that suggests students to comprehend the real vital situation or actual material close to the real practical situation. The students formulate an aim independently, find and collect information, analyze it, pull out hypotheses, seek the variants of decision-making, formulate conclusions, ground the optimal decision of situation. This technology corresponds to principles of systematic and active approach, assists realization of psychological law of mastering of knowledge: knowledge is formed in the consciousness of subject of studies not before but in the process of application of them in practice and this technology forms the informatively-technological culture of senior pupils, therefore it is in great demand in the terms of introduction of FSES of basic universal education.

## **Project**

The tasks of the program of professional training as "Operator EC and CM" are: providing with the qualitative basic professional knowledge which is in demand by society; creation of conditions for mastering certain types of professional activity, the general and professional competences promoting his social mobility and stability; providing the practical-focused assistance to the students in professional self-determination, the choice of a way in completing professional education; formation of social and personal qualities of graduates, increase of the general culture, ability to independently get and use new knowledge, abilities and practical experience. One of examples of case technologies, method of incidents "Software of the computer" when studying the topic "Software of ESM" is described in this work.

### **Purposes:**

Cognitive: to teach working methods with necessary information (collecting, systematization and analysis) for decision-making according to requirement.

Developing: to promote the formation of information literacy, development of thinking, abilities to analyze, to compare and systematize.

Educational: to provide the conditions for cooperation and work in a team, to promote an effective communication with schoolmates and the teacher.

The trainees receive the short message about the incident happened in some organization or firm. The message can be either written or oral: "It happened or occurred..." *However to adopt the reasonable decision by the trainee obviously insufficient information is offered, they need first to comprehend a situation, to define whether there is a problem and what actually it means, what should be done, what should be learnt to make this or that decision.*

### Script of incident.

You prepare the operational certificate (reliable and actual information) about protection against a computer virus. You are subscriber of mail services of Hotmail and MSN and you have no opportunity to receive electronic correspondence from clients of the company and users of services of some other Internet service providers for some time. The difficulties with delivery of mail are caused by significant increase of the volumes of correspondence in which the computer virus "Sober" is partially guilty. You know that every 22nd email letter today contains the latest version of "worm" of Sober! In particular, for distribution it uses two kinds of letters: the first one is a message in English on the topic

"Your New Password". The letter is disguised by the notice of change of the password containing data for acquaintance - pword\_change.zip. in the attached file. In the second case this letter is in German, as if there are photos of old school friends in the KlassenFoto.zip file. Both squeezed files include the executed PW\_Klass.Pic.packed-bitmap.exe file which is a copy of the worm.

Task:

to make the information certificate of protection against a computer virus, using a news feed, describing a situation with the computer virus "Sober". The criteria of the choice of information are: independence, reliability and actual value of information.

News feed:

"Antivirus"  
magazine

It is strongly recommend to install personal firewalls, and also special software for detection of programs which get into the computer with advertizing (adware) or the espionage purposes (spyware) on workstations. According to our data, the Sober gets into the computer, using methods of social engineering, complicating and to be exact speaking, paralyzing work of electronic correspondence of your company.

Press service of  
"Computeric"  
magazine.

Interception of a worm has been carried out by means of the preventive TruPrevent™ technology. And now, in connection with sharp increase of the number of the incidents caused by new Sober, the "Pasanda Software" informs its users that it is useful and it is necessary to start the infected files as the virus itself can destroy viruses with modification of Sober in any infected computer.

If you are at a loss correctly to start the program and protection of the computer yourselves, then our experts are always ready to help you with an advice on phone, as well as personally having made everything at your workplace!

New virus: 40 countries in 4 days.

The top five of the viruses which have caused the greatest number of infections this year looks as follows:

Federal service of  
computer safety.

Worm W32/Sober.	1,65%
Worm W32/Bagle.HX.	1,39%
Worm W32/Netsky.Q.	1,16%
Worm W32/Netsky.Q	1,15%
Worm W32/Nurech.A.	1,14%

We advise, as often as possible to update the anti-virus bases and to carry out a full inspection of the computer on existence of VIRUSES. Remember, tomorrow can be late, don't postpone!

All Sober worms recorded in anti-virus bases since the beginning of year are focused on Microsoft Windows.

"Quitss.ru" agency. It is strongly recommended not to use e-mail within 3-5 months.

Create quarantine! And the Sober worm itself will die of hunger.

#### Criteria of estimation of this task

Level.	The performed operations.
High.	The 1st and 3rd sources are chosen.
Average.	The 1st, or 3rd sources are chosen either.
Low.	The 2nd or 4th sources are chosen separately or together, or in any combination with the 1st and 3rd sources.

We analyze sources:

- A source - the "Antivirus" magazine provides reliable information. This source should be chosen.
- The press service of "Computeric" magazine is likely to be a motivated source. If to read information, you may be sure that this source shouldn't be chosen.
- The federal service of computer safety is not interested in information source, secondly there are some concrete figures. This source of information should be chosen.
- "The Quitss.ru" agency - there is no any fact except information that "the Sober worm itself will die of hunger" is a total nonsense in its given information. You shouldn't choose this source of information.

#### **Conclusions:**

The students carry out search, the analysis of additional information from various fields of knowledge including connected with future profession at the lessons with case technologies. Thereby they have an opportunity to deepen the knowledge gained earlier and absolutely in a new way to comprehend events and the phenomena around their information communicative technologies. Case technologies have brought process of training closer to life and filled it with sense.

Thanks to case methods the complete perception of reality as necessary background of formation of information outlook is reached. Work with variable resources information is considered not as the purpose but as the instrument of research and an additional source of information on the topic. However, it is necessary to consider that the students cannot always process information individually, experience difficulties in finding necessary resources and they can be influenced negative information of the Internet.

Thus, case technologies have a huge impact on intensifying of cognitive activity and on the development of information culture of senior students as during such lessons they become more interested in training as it is interesting to them to interact with each other, to find necessary information, to solve problems and to make decisions.

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