

The higher education includes programs for receiving degree of the bachelor, postdegree programs (a magistracy, doctor's degree) and MBA. The term "higher education" designates training at universities, colleges and institutes which offer receiving academic or doctor's degree.

## **DISCIPLINE IMPLEMENTATION "CREATIVE PROJECT" IN STUDENT CLUB FORMAT IN THE FIELD OF QUALITY MANAGEMENT**

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The paper describes a method of discipline implementation "Creative project" of the junior students by means of youth club format, as for example, participation in the youth club projects "Quality Management TPU" of the students studying on an educational program 221700 "Standardization and Certification".

Appearance in the curriculum of the educational program 221700 "Standardization and Certification" the discipline "creative project" caused by the accession of Tomsk Polytechnic University to the international CDIO Initiative.

The concept of CDIO is the development of students of engineering activities in accordance with the model "*Conceive — Design — Implement — Operate*" real systems, processes and products. This international project aims to eliminate contradictions between theory and practice in engineering education.

The new approach is intended to increase the practical orientation of training, as well as the introduction of the problem and project-based learning [1]. Most employers in hiring college graduates faced with the fact that former students cannot put into practice the knowledge gained at the university. It is desirable that graduates at the exit of the University had experience in real projects on the profile of learning.

Youth Club "Quality Management" was founded in 2010 as an initiative project "Center of Quality TPU". The purpose of the club is to develop in students and young scientists of professional competencies in the field of quality management and modern management techniques. The objectives of the club are:

- professional development of members through training seminars, organization of participation in conferences, competitions;
- attraction of the talented young people to participate in consulting projects for the implementation of management systems;

- organization of training and practice for members in enterprises and organizations;

- consulting assistance to young scientists (graduate students) to improve the effectiveness of control systems of their own small innovative enterprises [2].

Theme of the projects that students work at "Quality Management", is closely related to the disciplines included in the curriculum of educational programs prepare students toward 221700

Тематика проектов, над которыми работают студенты в клубе «Менеджмент качества», тесно связана с дисциплинами, входящими в учебный план образовательной программы подготовки студентов по направлению 221700 "Standardization and Metrology", such as: "Quality Management", "Standardization", "Certification", "Metrology", "Statistical methods for quality control and management", "Qualimetry" and others., which are tools to ensure the quality of products, services and processes, product life cycle, thereby resulting in the classroom theoretical knowledge students can use in real projects.

Becoming members of the youth club "Quality Management", students are combined into teams of several people to work on projects. Each team is headed by the leader of the project (at the Center for Quality TPU or a professional in the field of management). Project participants meet weekly to discuss the implementation of the project in the center of quality TPU, in the same center staff quality training seminars and workshops on topics of the projects. Typically, such meetings are held at the beginning of the project, in order to fill in the missing knowledge necessary for further work on the project, for example, training methodology of the process approach and skills in the program Business Studio 4.0 [3]. To summarize the results of work on the project twice a year at public meetings of the club, in which students were presented and discussed the results of the project work. Participate in real projects allow you to practice to get:

- teamwork skills,
- critical thinking skills in terms of working with large amounts of information;

- ability to work independently with information and further self-education;

- development of skills to formulate objectives and charting the ways to solve them.

One of the projects of the club "Quality Management" is the project "Improvement of the Business Process Management Science and Technology Library (STL) TPU-based software Business Studio». The project manager is

the director of the "Center of quality TPU" Alexey Klepikov. The project involved junior and senior students as well as undergraduates, Department of Computer Measurement Systems and Metrology.

In accordance with the schedule, the schedule of the project, given in Table 1, are the weekly meetings of the working group, which includes: staff NTBs TPU, the center staff and the quality TPU students participating club "Quality management".

Table 1. Calendar schedule of the project "Improvement of Business Process Management Science Library TPU based on the software Business Studio»

	<b>Job</b>	<b>Deadline</b>	<b>Result</b>	<b>Supporting materials</b>
.	Working Group education dealing with «Business Studio»	15.10.2013 г.	Trained staff of NTBs, students participating of the project	Presentations
.	Architecture development processes according to their granularity	November 2013 - March 2014	System (network) processes (models of the basic processes, the matrix of processes)	Processes presented in different notations Software «Business Studio», regulations of the process
	....	...	...	...
	Internal audit processes information and library activities	May 2014	Report, corrective action plan, proposals to improve the processes of information and library activities	Documents for Internal Audit

Working on the project of the club "Improvement of Business Process Management NTBs TPU based software Business Studio», the students took part in solving real problems, and the following competencies:

- deepening of theoretical knowledge in the field of process approach;
- classification of products by main areas of work;
- identification processes and the introduction of the process approach;
- decomposition processes and skills in the program Business Studio;
- participation in the meetings of the working group on the draft;
- team-working.

## References

1. CDIO library. [Электронный ресурс].–режим доступа: [www.cdio.org/knowledge-library](http://www.cdio.org/knowledge-library)
2. Youth club "Quality Management". [Электронный ресурс].–режим доступа: <http://portal.tpu.ru/quality/student>

## КОММУНИКАТИВНО-ИНТЕРАКТИВНЫЙ МЕТОД В ПРОФЕССИОНАЛЬНОМ ОБУЧЕНИИ НА ИНОСТРАННОМ ЯЗЫКЕ

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Современный процесс обучения характеризуется большим объёмом самостоятельной работы студентов, их вовлечением в реальные проекты, актуализирующие способности самостоятельно ставить и профессионально решать теоретико-прикладные задачи, появлением коллективных форм учебной работы, формирующих умения моделировать профессиональную деятельность.

Создание обучающего контекста профессиональных модулей, реализуемых на иностранном языке, должно идти через использование особой методологии и форм организации учебного процесса. С позиции методологии – это использование активных образовательных технологий.

Электронная образовательная платформа Moodle относится к классу недавно появившихся, мощных систем доставки контента, или, как их еще называют систем управления обучением. Являясь решением класса «все-в-одном», такие системы объединяют в себе инструменты администрирования, коммуникаций, оценки знаний и разработки учебных курсов.

Данный ресурс позволяет сделать процесс обучения более прозрачным и управляемым, а так же облегчает преподавателю ведение статистического учета успехов каждого слушателя в отдельности и всей группы в целом.

Особой дидактической ценностью данного ресурса является широкий набор интерактивных элементов, поскольку методологической основой системы Moodle является педагогика «социального конструктивизма»: обучение приводит к максимальным результатам, если знания рождаются в процессе совместной деятельности