

# The Role of College Students' Professional Innovation Competition in Improving Their Comprehensive Quality

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## Abstract

**The society has higher and higher requirements for talents, undergraduates should not only learn professional knowledge, but also improve their comprehensive quality. College students' professional innovation competition can improve their professional knowledge and comprehensive quality. Based on the analysis of the current problems faced by undergraduates, this paper expounds the role of College Students' professional innovation competition in improving the comprehensive quality of undergraduates.**

## Keywords

**Professional innovation competition; Undergraduate; Omprehensive quality.**

## 1. Foreword

At present, the overall quality of undergraduate students in our country is still relatively low, students lack the desire for knowledge, the spirit of exploration, team cooperation ability, psychological quality, professional skills and other comprehensive quality. It is helpful to improve the comprehensive quality of undergraduates by participating in the professional innovation competition.

The notice of the Ministry of education on the implementation of "undergraduate teaching project" National College Students' innovation and entrepreneurship training plan (JGH [2012] No. 5) requires colleges and universities to implement the college students' innovation and entrepreneurship training plan during the "12th Five Year Plan", and puts forward the training goal of promoting students' all-round development through innovation and entrepreneurship education, so as to reserve talents for creating an innovative country.

In the article "Discussion on the current situation and Countermeasures of the cultivation of innovation and entrepreneurship ability of agricultural and Forestry College Students"[1], taking Hunan Agricultural University as an example, the questionnaire was used to investigate the undergraduates, the questionnaire included innovation and entrepreneurship awareness, innovation and entrepreneurship ability and innovation and entrepreneurship risk-taking ability. Through systematic analysis and comparison, it was concluded that the most lacking quality of undergraduates was strong professional knowledge, followed by professional knowledge Excellent communication skills, once again a strong ability to challenge difficulties.

## 2. The Role of College Students' Professional Innovation Competition in Improving Their Comprehensive Quality

### 2.1. Professional Innovation Competition Can Stimulate Undergraduates' Desire for Knowledge and Spirit of Exploration

At present, the knowledge depth of undergraduate course learning is relatively shallow, and there is still a big gap from the knowledge reserve of College Students' professional innovation competition, however, some undergraduates show slack psychology to new knowledge, do not

actively accept new knowledge, and lack the desire for knowledge. Moreover, once the new knowledge is a little difficult, some undergraduates lack the toughness to further explore, and the spirit of scientific exploration is insufficient. In the college students' professional innovation competition, undergraduates can learn more about their major by consulting relevant professional literature, increase their knowledge reserves, and increase their desire for knowledge after solving a series of difficult problems. In the college students' professional innovation competition, due to the pressure of competition results and the motivation of winning the competition, students' desire for knowledge will be better stimulated. The students want to show their ability and level, so they will have a strong desire for knowledge, and show a strong curiosity about the relevant things of the competition. At the same time, with the increase of the difficulty of the competition, the exploration spirit of undergraduates will be improved accordingly [2].

## **2.2. Professional Innovation Competition Can Improve the Team Cooperation Ability of Undergraduates**

College Students' professional innovation competition project is a team project, the project team is generally composed of 4-5 people. In the process of project execution and implementation, some undergraduates do not realize the importance of teamwork, and their teamwork ability is not strong. In addition, some students are impetuous and eager for success, they think that as long as they can finish the project smoothly and get some practice credits, they have no strong sense of responsibility and cannot actively consult literature, write papers and apply for patents, and complete the project in depth and systematically.

Due to the fact that students' skills competitions are mostly conducted in groups, the participating students must pay attention to the importance of teamwork. In the competition, no matter what the result of the competition is, the spirit of teamwork always stimulates the nerves of the students. After a competition, undergraduates' sense of teamwork will be greatly strengthened. For example, the competition of professional innovation such as challenge cup and Internet plus needs undergraduate students to form a team to participate in, this tests the communication ability of undergraduates, and the team members need to work in coordination and cooperation, which tests the ability of teamwork [3].

## **2.3. Professional Innovation Competition Can Improve the Psychological Quality of Undergraduates**

The related courses in Colleges and universities have little pressure on undergraduates, and some undergraduates have weak psychological pressure resistance ability. In most college students' professional innovation competitions, undergraduates are required to explain projects to judges and audiences indirectly or directly through on-the-spot road shows; there may be some unexpected situations in the competition, which may affect the performance of road performers in subsequent competitions. However, some undergraduates do not have strong psychological quality, and their performance is often unsatisfactory in the face of unexpected situations.

The professional innovation competition requires undergraduates to introduce the related projects, on-the-spot road shows, etc. During the course of competition training, the undergraduates who participate in the competition will encounter many problems or difficulties that they did not think of in advance, and they should be solved in a short time. Many undergraduates will have the idea of quitting the game because of the problems or difficulties, even lead to the contradiction between teammates, these processes will constantly train the psychological quality of undergraduates and enhance the Undergraduates' ability to face the emergency situation. Moreover, the more complicated the process and the more difficult the competition, the more effective the psychological quality of undergraduates.

## 2.4. Professional Innovation Competition Can Quickly Improve the Professional Skills of Undergraduates

Due to the exclusiveness of the college students' professional innovation competition, every undergraduate will cherish the opportunity to participate in the competition, attach great importance to the process of competition training, their learning will be very serious, and the relevant instructors will spare no effort to guide. Therefore, in the process of preparing for the competition, undergraduates can encounter knowledge and ideas that they have not been exposed to before, and the intensity and content of relevant practical operation training will also be greatly improved. In the process of preparing for the competition, there is a collision of knowledge and ideas between students and between students and teachers; in the process of the competition, there is a competition of knowledge between all teams. Before and after the professional innovation competition, students' professional skills can be improved quickly in a short time.

## 3. Specific Examples of Professional Innovation Competition

At present, there have been many specific examples of College Students' professional innovation competition to improve their comprehensive quality. In the competition practice of "figure-8" carbon free car [4], undergraduates participated in the design and practice of the car, and carried out the track design, structure design, parts processing, assembly and debugging of the car. In the preparation process of the competition, several simulation drills were carried out. The division of labor of the team was clear. The undergraduate students in the team played their own expertise and took part in each link. At the same time, the team members analyzed the actual operation of the car, synthesized the theoretical data, comprehensively evaluated the actual situation in the operation, put forward the corresponding optimization scheme and improvement method, and made arrangements to deal with various emergencies. Through the preparation, development and completion of professional innovation competition, undergraduates have accumulated certain experience in subject competition, and their basic theoretical ability, core professional ability, drawing ability; metalworking practice ability, communication ability and team ability have been greatly improved. The author has participated in the college students' professional innovation competition, and won the second prize in the Eighth National College Students' agricultural construction environment and energy engineering related professional innovation and entrepreneurship competition. In the preparation process of the competition, the author and his team members have a clear division of labor. Under the guidance of the instructor, they can understand and learn the new professional knowledge and successfully complete the requirements of the project. Through this professional innovation competition, the author and his team members realized the importance of teamwork, and each undergraduate improved his team communication ability; in the process of learning new professional knowledge, the ideological collision between team members and instructors greatly stimulated the desire of undergraduates for knowledge, and team members, as sophomores, learned relevant professional knowledge ahead of time, with the help of professional knowledge, the level of professional knowledge has been improved rapidly. In the process of contest defense, as the reporter, the author has accumulated the experience of online defense and improved his language expression ability and psychological quality. The author believes that in the future competition practice, the author and his team members will more actively prepare for the task before the competition, specifically learn more relevant professional knowledge, conduct multiple simulation exercises and defense, and increase the experience of online and offline defense.

## 4. Conclusion

Through the analysis of the current problems faced by undergraduates, this paper puts forward the role of professional innovation competition in improving the comprehensive quality of Undergraduates in four aspects. The development of College Students' professional innovation competition has improved the comprehensive quality of undergraduates to a certain extent. This paper puts forward that undergraduates should arrange their own time reasonably, actively participate in college students' professional innovation competition, and gradually improve their comprehensive quality through the training of College Students' professional innovation competition.

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