

vocational education “double high plan”, individual cognitive impairment and group cognitive impairment will lead to psychological pain in education. How to put forward the corresponding ecosystem governance strategies according to the cognitive barriers has great teaching significance.

**Objective:** To understand the ecological structure of the professional group of vocational education “double high plan”, analyze the cognitive obstacles, and put forward the governance path of the professional group ecosystem of vocational education “double high plan” from the perspective of improving cognitive obstacles.

**Research design:** Using the literature method to obtain the high-level professional groups in higher vocational colleges, formulate a questionnaire to conduct a questionnaire survey on the teachers and students in the three higher vocational colleges. The survey content is the main tasks of teachers and students in the professional group ecosystem, put forward the professional group ecosystem governance scheme of the “double high plan” of vocational education, and evaluate the effect of the scheme.

**Results:** The survey results used five grades of 0-4 to quantify the influence value of specific factors. 0 means irrelevant, 1 means slight impact, 2 means general impact, 3 means obvious impact and 4 means complete impact. In order to reduce the large error caused by personal subjectivity in evaluation, the evaluation value of 100 teachers and students in higher vocational colleges is taken as the average value. The cognitive impairment at three levels of individual, population and community of professional group under cognitive impairment has a significant impact on the proposal of governance plan, as shown in Table 1.

**Table 1.** Impact of cognitive impairment on ecological governance

Content	Individual cognitive impairment	Population cognitive impairment	Community cognitive impairment
Governance scheme	3	3	3

**Conclusions:** Cognition is the processing process of the body in receiving external information, including the acceptance, processing and learning of information. Cognitive impairment has defects in the above contents. The cognitive impairment in the ecosystem of the professional group of the vocational education “double high plan” is mainly manifested in the cognitive impairment of the subsystem in the ecosystem. It is unable to accept and learn, which leads to the evolution of the ecosystem. From the perspective of cognitive impairment, the research focuses on the cognitive impairment at all levels in the professional group ecosystem of the “double high plan” of vocational education. It is learned that in order to better manage the system, it is necessary to cultivate professional groups with characteristics from the three aspects of individual, population and community, and resources should be shared among professional groups, develop in the form of collectivization and under the relevant guarantee mechanism.

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## DISCUSSION ON ELECTRICAL ENGINEERING TRAINING AND APPLICATION OF ELECTRICAL AND ELECTRONIC TECHNOLOGY UNDER THE BACKGROUND OF COGNITIVE IMPAIRMENT

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**Background:** With the continuous expansion of industrial production, electrical engineering, as an indispensable part of industrial production, has attracted more and more attention. And in terms of the current international situation, electrical engineering plays a positive role in promoting scientific and technological innovation. Therefore, the development degree of a country’s electronic engineering determines the country’s competitiveness in international scientific and technological innovation. The earliest definition of electrical engineering is the systematic science that combines electronics and electricity. In the process of social and scientific and technological development, electronic and photonic technology also belong to the research content of electrical engineering. The main electrical engineering

talents in China come from colleges and universities. In the training of colleges and universities, electrical engineering has more complicated learning contents, so it is difficult to construct the discipline of electrical engineering in colleges and universities. The main research content of electrical and electronic technology is circuit. In the teaching of electrical and electronic technology in colleges and universities, it is usually based on practice, emphasizing that students master the relevant theoretical knowledge of electrical and electronic technology in practice. In the teaching of colleges and universities in China, electrical engineering and electrical and electronic technology are generally taught as a unified course. In the teaching, because most of the contents tend to practical application, students will have knowledge obstacles in some knowledge learning, which seriously hinders the development of teaching courses.

Cognitive psychology believes that the body will go through the process of receiving, transmitting and processing when receiving information. Cognition is information processing. Cognitive impairment is the result of information processing failure in information processing, resulting in the body unable to receive relevant information and cognitive blind spot. At the same time, cognitive impairment is expressed as mental disorder in psychiatry. In medicine, mental illness is summarized as brain disease, which is the obstacle mental change of human brain after being impacted. Patients with cognitive impairment will be unable to learn in their daily life. In college education, the emergence of cognitive impairment is the learning disability of students in the curriculum. Students' cognitive impairment will seriously hinder the development of students' daily life and learning. From the current situation of college education, college students come from different regions and have certain differences in basic education. Therefore, there will be cognitive differences in the face of the same kind of knowledge, and serious cases will have cognitive impairment. In the cognitive impairment of colleges and universities, the treatment means obtained from psychiatric treatment are generally improved by cognitive restart, mainly by constructing the improvement scheme of cognitive impairment, simplifying and visualizing the knowledge, meeting the receiving conditions of some students and realizing the effective indoctrination of knowledge. Therefore, in the face of students' cognitive obstacles in the teaching of electrical engineering and electrical and electronic technology in colleges and universities, we also need to start with cognitive training to completely improve students' cognitive situation, improve the overall teaching level of the school and promote students' comprehensive development.

**Purpose:** Starting from psychiatry, improve the teaching of electrical engineering and electrical and electronic technology in colleges and universities through the improvement of cognitive impairment, so as to alleviate the learning pressure of college students, improve students' cognitive level and improve students' comprehensive quality.

**Study design:** Design a questionnaire to collect students' basic information, including students' gender, age, height, home address and so on, and analyze the impact of students' basic information on students' cognitive level. Understand the professional knowledge of students majoring in electrical engineering and electrical and electronic technology through classroom examination and interview, formulate teaching plans, and divide students into cognitive impairment group and cognitive normal group according to student scores. Analyze the professional performance changes of students in the cognitive impairment group under the innovative teaching mode, and compare the performance changes of the two groups. The students' cognitive level is expressed as 0-10.

**Table 1.** Comparison of changes in students' cognitive level

Group	Before teaching	After teaching	Variation	<i>P</i>
Cognitive impairment	3.1±1.5	7.6±0.7	4.5±0.8	<0.05
Normal cognition	6.4±1.2	7.8±0.6	1.4±0.6	>0.05
<i>P</i>	<0.05	>0.05	<0.05	-

**Results:** The age and home address of students will affect the degree of cognitive impairment to a certain extent, but the difference is not statistically significant ( $P > 0.05$ ). Comparing the cognitive level changes of the two groups of students after the teaching of electrical engineering and electrical and electronic technology, it shows that the changes of students in the cognitive impairment group are significantly greater than those in the normal cognitive group, and the difference is statistically significant ( $P < 0.05$ ), as shown in Table 1.

**Conclusions:** As the main courses in higher education, electrical engineering and electrical and electronic technology have strict requirements on students' cognitive ability. Generally speaking, most students will have more or less cognitive impairment when facing more complex electronic problems. Therefore, it is imperative to improve the cognitive impairment of college students in professional courses. For electrical engineering and electrical and electronic technology, under the background of students' cognitive impairment, this paper puts forward innovative teaching schemes to improve students' cognitive

level and realize the development of students' comprehensive quality, which is conducive to the development of teaching in colleges and universities and can provide theoretical support for the cultivation of industrial construction talents in China.

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## CONNOTATIVE DEVELOPMENT OF COLLEGE STUDENTS' INNOVATION AND ENTREPRENEURSHIP EDUCATION UNDER THE OBSTACLE OF THINKING LOGIC

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**Background:** College students' innovation and entrepreneurship education is an important link in the talent training of colleges and universities in China. With the continuous proposal of preferential policies for college students' innovation and entrepreneurship, the innovation and entrepreneurship education model of colleges and universities is also updating day by day. In the innovation and entrepreneurship education in colleges and universities, the connotative development of education has become an important breakthrough in the transformation of college education. Compared with the traditional development mode, connotative development can promote the communication efficiency of college education ideas, and it is also the premise of the adaptive development of colleges and Universities under the background of the times. There are two connotations in the connotative development of college students' innovation and entrepreneurship, namely "innovation" and "entrepreneurship". In terms of "innovation", in the field of economics, it is considered that innovation is a new combination generated by the combination of an unprecedented new element and existing production conditions in the development practice of entrepreneurs. Under this new combination, it can produce a new production system and endow the enterprise with a new form of organization. From the connotation of "entrepreneurship", entrepreneurship is to start an innovative business, and produce a new management mode from the traditional mode to carry out production and operation. Therefore, the connotation of "innovation" and "entrepreneurship" is consistent. Innovation and entrepreneurship education is an education that takes two connotations as the main body for teaching. In education, it is based on cultivating students' innovation and entrepreneurship connotation to promote the development of students' innovation and entrepreneurship ability.

However, in the study of innovation and entrepreneurship, college students will inevitably have thinking logic obstacles, that is, the inherent logical relationship of students in innovation and entrepreneurship is broken, they cannot have normal thinking logic, and then cannot receive relevant educational content. Thinking logic disorder is a common mental disorder. Common thinking logic includes symbolic thinking, new words, logical inversion and sophistry thinking. Under the influence of different thinking logic obstacles, the feelings produced by the body will be very different. When the body has symbolic thinking, there will be behaviors that are difficult for ordinary people to understand, and at the same time, it will show different understanding effects on the received relevant knowledge. New words and logical errors are a kind of logical confusion. Under the influence of these two logical obstacles, students will convey illogical concepts in the teaching process. Under the influence of sophistry thinking, students will doubt the learning content and use invalid debate to prove some wrong views, which will also seriously affect the development of students' quality.

**Objective:** Through the logical analysis of college students' thinking obstacles, we can determine the logical development path of college students' creative thinking from the perspective of different college students' cognitive education, and determine the logical development path of college students' creative