

# Research on the teaching reform of new energy vehicle curriculum from the perspective of curriculum ideology and politics

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**Abstract:** Under the deepening and implementation of “moral cultivation”, the construction of “curriculum ideology and politics” has become one of the important directions of the current vocational education reform. This puts forward new requirements for higher vocational teachers. Teachers should not only complete the teaching tasks of implanting basic knowledge and cultivating practical skills, but also pay attention to cultivating students’ political quality, professional quality, craftsman spirit and moral quality, improve students’ value system and knowledge system, and stimulate students’ feelings of home and country and national spirit. To provide students with abundant educational resources and high-quality teaching services, and effectively implement the policy of “curriculum thinking and politics”. In this regard, combined with the teaching practice of the new energy automobile major course, this paper deeply analyzes the practical significance of curriculum ideological and political development, analyzes the existing problems in teaching, and puts forward the reform measures of curriculum ideological and political teaching, hoping that it can be used for reference.

**Key words:** new energy vehicle; Curriculum ideology and politics; Teaching reform

## 1. The practical significance of “curriculum thinking and politics” in the teaching of new energy vehicles

### 1. Stimulate students’ enthusiasm for learning

Vocational college students come from different learning and living environments, and there are great differences in thinking, ideology and learning level among students. Therefore, it is necessary to carry out targeted teaching activities on the basis of analyzing students’ professional basis, cognitive level, acceptance level and aesthetic quality, to ensure that the choice of teaching content and teaching methods conforms to students’ development law and needs. By carrying out “curriculum thinking and politics”, the teaching content can be further enriched, so that students can gain rich experience and perception in the process of watching ideological and political videos and participating in ideological and political activities. In this way, their subjective initiative can be successfully mobilized, students’ learning efficiency can be improved, and their values and moral qualities can be effectively cultivated.

### 2. Cultivate students’ value orientation

In the teaching process, the teachers of new energy vehicles dig deep into the ideological and political content and integrate it into the teaching of professional courses, guide students to grasp the connotation and significance of the socialist core values, so as to improve the value and cognitive system of students, and ultimately help students form the correct political literacy and value orientation. The teachers of new energy vehicle course combine the ideological and political ideas of the course in the teaching of professional knowledge in the classroom, help students firm their ideals and beliefs, make them develop and work hard in the right direction, and finally fully demonstrate the educational value of the ideological and political education of the course, which can not only improve the ideological and political education system, but also promote the balanced and all-round development of students.

### 3. Cultivate students’ craftsman spirit

Craftsman spirit is a necessary spiritual quality for talents in the new era, and it is also an important part of ideological and political education. In the course teaching of new energy automobile major in higher vocational colleges, “curriculum thinking and politics” is carried out. Teachers deeply integrate the craftsman spirit with professional knowledge, so that students can master professional knowledge and skills while cultivating their craftsman spirit of excellence, thus enhancing students’ spiritual quality, improving students’ ideological level, and forming excellent professional quality. This is of positive significance for the cultivation of all-round talents.

## 2. Existing problems in the course teaching of new energy vehicles

### 1. The teaching concept needs to be updated urgently

Based on the traditional teaching mode, it is difficult for teachers of new energy automobile major in higher vocational colleges to change their teaching concepts and update their teaching methods in a relatively short time. Therefore, some teachers do not pay attention to the ideological and political reform of the curriculum, only pay attention to the teaching of knowledge and skills, and do not pay attention to the cultivation of students’ values and the development of quality and ability. Based on this background, teachers of new energy automobile courses in higher vocational colleges still face many obstacles in the process of promoting quality education and the integration of ideological and political content, resulting in the failure to give full play to the educational value of new energy automobile courses.

### 2. The teaching method is outdated

At present, most teachers of new energy vehicle courses in higher vocational colleges are still accustomed to using traditional teaching or cramming methods in the teaching process, and are accustomed to self-centered teaching activities, which do not fully demonstrate the dominant position of students. Based on this single and outdated teaching mode, it is difficult for teachers to mobilize students’ awareness of

independent learning, resulting in them being in a passive learning state for a long time, lacking the enthusiasm and motivation to participate in class discussions and teacher-student interaction. In addition, many teachers do not actively learn and use other new teaching methods for reference, nor do they integrate different methods, which leads to a dull and boring classroom atmosphere and fails to guide students to perceive the emotion, spirit and value contained in the new energy vehicle major course knowledge and related professions during learning, which is not conducive to the professional development of students.

### 3. The teaching content is relatively unitary

In order to promote the reform process of higher vocational education, teachers need to highlight the characteristics of new energy automobile courses in the new energy automobile courses, so as to give full play to its educational function, so that they can perceive the infinite charm of new energy automobile courses in the study, and finally cultivate their sentiments and wash their hearts, strengthen their ideals and beliefs, and improve the value system. However, in terms of the actual course content of new energy automobile in higher vocational colleges, some teachers of new energy automobile major courses are still used to carry out teaching by copying textbooks, and do not expand and extend the content based on actual cases and students' needs. Therefore, although teachers have taught students the theoretical knowledge and skills of new energy automobile major courses, But they did not make them master the spiritual quality and professional quality required for new energy automobile courses, so it is difficult to effectively play the effectiveness of new energy automobile courses teaching.

## 3. New energy vehicle curriculum ideological and political teaching reform measures

### 1. Establish curriculum ideological and political teaching objectives to highlight moral excellence and cultivate people

Integrating ideological and political elements into curriculum teaching is an important starting point to realize "moral education". Based on this, the new energy automobile course teachers in higher vocational colleges should highlight the idea of ideological and political education and moral education in the course teaching goals, further build ideological and political goals, provide guidance for the implementation of the fundamental task of moral education and promote the effective implementation of curriculum ideological and political education. In the actual construction of curriculum objectives, teachers should further add ideological and political objectives on the basis of the previous knowledge and ability objectives, so as to improve the curriculum objective system, so as to deeply combine professional knowledge, vocational skills and ideological and political elements in curriculum teaching, and promote the all-round development of students. For the construction of ideological and political goals, teachers should integrate elements such as craftsman spirit, core values, moral quality, humanistic accomplishment and innovative thinking into the curriculum, so as to cultivate applied talents with both morality and ability. To be specific, knowledge and ability goals should be determined first. It mainly includes teaching new energy vehicle professional courses, so that students can understand the relevant professional theoretical knowledge, familiar with the construction and maintenance of new energy vehicles, fault and diagnosis, comprehensive performance and power battery and management technology and other professional knowledge, so that they can use theoretical knowledge to solve professional problems; At the same time, they must master the maintenance ability in the field of new energy vehicles, and they can put the knowledge into practice. Secondly, we should pay attention to the construction of ideological and political goals. First, guide students to understand the development prospects of new energy vehicles and their value significance to economic development, and understand the important value of the automobile industry in China's economic development; Second, the core values of socialism, the spirit of craftsmanship, the spirit of The Times and the spirit of professionalism should be reflected in the teaching content, and the excellent spiritual quality should be deeply combined with the teaching content to cultivate qualified applied talents. In addition, the elements of innovation and entrepreneurship should be integrated into the teaching of new energy vehicles, and students should be guided to correctly understand the policy of "mass entrepreneurship and innovation" put forward by the state, and effectively cultivate students' innovation consciousness and creative ability, and cultivate students' political identity.

### 2. Dig deeply into the ideological and political content of the course and infiltrate the ideological and political concepts

The teaching content of the new energy automobile major course in higher vocational colleges is characterized by the combination of theory and practice, and it is feasible and necessary to integrate the professional spirit, craftsman spirit and innovative spirit into the learning of these professional knowledge. Under the background of "curriculum ideology and politics", in order to integrate ideological and political elements into the teaching of new energy vehicles in higher vocational colleges, teachers should dig deeply into the teaching content, develop the ideological and political content in combination with professional knowledge, and carry out effective and deep integration of ideological and political concepts, so that students can be imperceptibly influenced by ideology in professional learning, and ensure the improvement of students' professional knowledge and skills. Further strengthen students' ideological and political awareness, sublimate their ideological level, and then cultivate qualified new energy automobile talents. For example, in the teaching of "new energy vehicle fault diagnosis", students need to master the causes and diagnosis methods of possible faults of new energy vehicles, and students need to choose appropriate ways to diagnose and overhaul different faults. In this process, certain requirements are put forward for students' professional spirit and craftsman spirit. Teachers can cultivate the craftsman spirit of excellence and establish the professional spirit of love and dedication through the comparison of real cases.

### 3. Innovate ways to integrate ideological and political content and build a vivid situation

With the development of modern science and technology, China has stepped into the information age. At the same time, information technology has been popularized in education and teaching, injecting fresh vitality into contemporary teaching work. With the application of information technology, teachers' teaching forms and teaching methods in the classroom are more and more diversified. Under the

background of curriculum ideological and political development, teachers of new energy vehicles can use information technology to change the boring teaching mode of “textbook + board writing” and further deepen the construction of ideological and political education situations in professional course teaching, so as to make the educational situations vivid and interesting and enhance students’ sense of experience. Stimulate its resonance, so that students can deeply understand the subject knowledge content and the content of ideological and political education, and realize efficient teaching. Under the background of curriculum ideological and political education, new energy vehicle course teachers can rely on information technology to further deepen the construction of ideological and political education situations in professional course teaching, realize the vividness and interest of educational situations, enhance students’ sense of experience, stimulate their resonance, enable students to deeply understand the knowledge content of the subject and the content of ideological and political education, and achieve efficient teaching. For example, in view of the ideological and political penetration of “New energy vehicle maintenance case analysis”, teachers can show the case maintenance process by playing video clips with the help of multimedia equipment, and fully combine professional content with ideological and political elements such as the spirit of excellence and the consciousness of innovation to set up a vivid teaching situation in class. Under the dual stimulation of audio and visual stimulation, students can enter the learning situation more quickly, enhance their emotional experience, enhance their learning interest, and make them deeply understand the value and significance of automobile maintenance positions in the development of new energy automobile industry, thus promoting students to have a sense of career mission, understand the professional knowledge content, and at the same time, Further enhance the students’ ideological level and realize the effective penetration of ideological and political education.

#### 4. Accelerate the construction of curriculum evaluation system to measure the effectiveness of integration

New energy vehicle course teachers should also actively improve the curriculum evaluation system, teachers need to improve the teaching evaluation indicators according to the characteristics of new energy vehicle courses, and innovate teaching evaluation methods. Among them, teachers need to incorporate ideological and political education into the evaluation system, guide students to form a correct aesthetic orientation and value orientation, constantly improve their aesthetic literacy, design literacy and political literacy, and finally improve their artistic level and ideological level. Secondly, teachers should encourage students to participate in various forms of evaluation activities, such as student evaluation, student self-evaluation and teacher-student evaluation, so as to enhance students’ participation in evaluation and effectively improve students’ self-cognition. In addition, teachers should also grasp the ideological dynamics and psychological changes of students based on their classroom performance, so as to comprehensively measure the effect of ideological and political education penetration, and can also provide guidance for subsequent ideological and political education based on the teaching effect.

## Epilogue

To sum up, in higher vocational education, how to efficiently implement “curriculum ideology and politics” has become the key task of its education reform, which has positive significance for improving the overall quality of education in higher vocational colleges. For new energy vehicle course teachers, they should actively explore the implementation path of curriculum ideology and politics in curriculum teaching, and constantly expand the integration path of ideological and political content in higher vocational colleges and improve the integration effect by setting curriculum ideology and politics teaching objectives, digging deeply into the ideological and political content in the curriculum, innovating the integration method of ideological and political content, building the curriculum evaluation system and other measures. Effectively implement the ideological and political curriculum, and cultivate qualified automotive application talents for the society.

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