

The Construction Method of NC Lathe Programming and Machining Micro Course Resources

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Abstract: *With the continuous development of social economy and science and technology, China's various industries have increased the demand for talents, the increase of social demand for talents has promoted the development of higher vocational colleges, making the scale of Higher Vocational Colleges continue to expand in the current social development of our country. In the development of China's colleges and universities, no matter at any stage, attach importance to the education of students' cultural theory courses, but not too much education of Ideological Courses, which leads to students' lack of their own political and ideological ideas, and there are some conflicts in Ideological and political learning. English is an important course in the study of higher vocational colleges. In order to effectively enhance the ideological and political education in Colleges and universities, ideological and political education can be run through English teaching to cultivate students' comprehensive quality development. This paper mainly analyzes and studies the construction of Ideological and political education system in Higher Vocational English teaching. At present, there are two major problems in the use of video resources in the process of video recording and video analysis. On the other hand, there are two major problems in the use of video resources in the process of video teaching Methods, shooting video, making video, post editing and so on, and the implementation of recording screen is mainly carried out by recording screen software. Another kind of real-time video needs to shoot the content first, and then use professional video editing software for post production and processing, such as PR, love editing and other software.*

Keywords: Vocational colleges; English teaching; Ideological and political education; System construction; Analysis and research.

1. INTRODUCTION

In the process of China's social development, due to the continuous improvement of the economy and the growing influence in the international development, China's foreign exchanges and exchanges are also increasingly frequent, in this case, the importance of English is highlighted. In the education system of higher vocational colleges, English teaching as an important part of its learning also makes students have a certain understanding of western culture, which contains some bad information, which has a certain impact on students' ideological quality. Therefore, in order to eliminate this influence, we can build a complete set of Ideological and political education system to help students establish correct socialist core values. The course knowledge of NC lathe programming and machining is abstract. In addition, some operation details should be paid attention to in the actual operation process. Therefore, in the process of micro course teaching, some key contents and details need to be visualized, so that every detail of CNC lathe specialty can be clearly seen. And through the way of video or animation can make the whole view more impact and interesting. In addition, for the design of some text micro resources, it is also necessary to ensure the level and clarity of the whole text, to ensure that students have a reasonable basis and detailed steps in learning.

As an intermediary department of credit business, banks need to evaluate the strength, supply- demand relationship and credit standing of enterprises, in order to estimate the credit risk of micro, medium and small enterprises and formulate credit strategies. In this paper, five risk indicators are extracted from two aspects of enterprise's comprehensive strength and reputation to establish a risk assessment system. Among them, the total input price and tax, total output price and tax, and profit rate are the assessment standards of enterprise's comprehensive strength, and the failure rate of input and sales transaction is the assessment standard of enterprise's reputation. Next, the selected risk indicators are standardized with z-score elimination dimension, and the standardized index data are evaluated with Logistic regression analysis model, to obtain the probability of corporate default risk. In order to give the optimal credit policy, we from the perspective of the bank, application of least square method, the fitting of the annual interest rate and turnover rate equation of the premise, established the model of credit strategy based on bank profits maximum, determine the constraint condition, and apply genetic algorithm for each

enterprise loan amount and the bank loan interest rate.

2. THE FUNCTION OF CONSTRUCTING IDEOLOGICAL AND POLITICAL EDUCATION SYSTEM IN HIGHER VOCATIONAL ENGLISH TEACHING

Because there are many factors that affect the credit risk of the enterprise multi-level, for the selection of risk evaluation indexes, we use accounting related theory, from the perspective of the combination of quantitative and qualitative, eventually selected related evaluation index, and whether the default as dependent variable, using Logistic regression analysis of short-term forecast more accurate, for each enterprise credit risk considerations, and the results are nonparametric test to validate the feasibility of the model analysis, finally combining the credit risk and loan interest rates and credit strategy customer churn rate relations. The hotel industry has experienced slow growth during the COVID-19 pandemic. However, as the situation gradually improves, people are starting to plan their travel again, making the post-pandemic era a significant opportunity for the hotel industry. The Jinjiang International Hotel Group is the largest hotel group in China. This paper conducts a financial analysis of Jinjiang Hotels from 2019 to 2022, taking into account the impact of the pandemic. Through a comparison with the DuPont analysis and the financial capabilities of Shangri-La Hotels, the current problems and risks faced by Jinjiang Hotels are explored, and corresponding recommendations are provided.

2.1 Give full play to the role of English Teaching in Higher Vocational Education

English learning is the learning of western culture. English courses occupy a large proportion in all courses of higher vocational colleges. If students' study for a long time, it will affect students' learning of Chinese culture. Therefore, through the construction of Ideological and political education system in Higher Vocational English teaching, students can effectively keep their confidence in national culture while learning western culture. Students learn the cultural differences between China and the West and identify the advantages and disadvantages of learning culture. Students in higher vocational colleges should have the ability to distinguish right from wrong. English learning contains a lot of contents, which are unique Western cultural contents. If ideological and political education is properly carried out in this kind of learning, teachers can guide students to learn the differences between Chinese and Western cultures. Learning from this aspect can also enhance students' interest and enthusiasm in learning [1]. During NC lathe programming and processing, the main processes are theoretical learning, practical operation, understanding professional content, practical content verification, summary and so on. This feedback teaching method is relatively simple, but it reduces the students' interest to a certain extent. At present, the wide use of micro courses requires that micro courses should focus on teaching contents and carry out systematic curriculum planning. Therefore, first, it is necessary to set appropriate micro course teaching resources for different teaching contents, which mainly include: theoretical knowledge, practical operation steps, video resources, micro course test questions, micro operation steps, simulation animation and other contents. Reasonable teaching content selection can help higher vocational students better learn. For example, adding a machining program to the program of a CNC lathe, you just need to follow the editing methods and steps. If you show these steps in a video, it's a bit of a fuss [1-3]. In addition, the design of micro resource teaching method should be integrated and systematic, which not only needs to enable students to achieve the purpose of learning, but also needs to let students have a certain sense of logical existence, so that students can learn more clearly the knowledge and content of numerical control.

2.2 Create an atmosphere of education in Higher Vocational Colleges

English course in higher vocational colleges is a basic course, and any student needs to learn. In English Teaching in higher vocational colleges, there are a lot of original English learning. While learning English, students can also read many excellent articles. In the construction of Ideological and political education in Higher Vocational English teaching, English can be used as a carrier to make use of the connotation of English textbooks. In this way, we can not only improve students' English learning, but also improve their ideological and political learning. In the process of learning, we can also improve students' initiative thinking by adding discussion links. We can also educate students through this new way of education, and we can also absorb and discard the excellent culture in the process of learning English the bad influence in western culture. In recent years, micro course is widely used in our country. Although there are different opinions on many teaching and research majors in China, the overall teaching ideas and basic core ideas are basically the same. They all think that micro course is a kind of teaching resource with high visualization and interest. Therefore, it is necessary to combine NC lathe programming with machining specialty and micro course closely.

2.3 Optimize teaching in Higher Vocational Colleges

The students of higher vocational colleges are in a very important stage. In this stage, students' world view is perfect. Therefore, in English learning, students not only learn from teachers' cultural knowledge, but also learn from teachers' moral character and ability. Therefore, it is very important to strengthen ideological and political learning while conducting English teaching. The implementation of Ideological and political education in Higher Vocational English teaching can be carried out from the teachers, through improving the ideological and moral level of teachers and enhancing their ability to teach and educate people. When teachers have a higher ideological and moral character, they can correct students' incorrect ideas and transmit correct ideas to students in class. Thus, the construction of political quality education in the process of Higher Vocational English teaching can effectively optimize English teaching.

2.4 Relevant Literature

Trade wars, global value chains and the strategies of multinational enterprises are important issues in the field of international economic research. Over the past few years, scholars have conducted extensive research on these topics and produced a large number of scholarly articles, reports, and case studies. For the study of trade wars, many scholars have paid attention to the trade conflicts between different countries and the evolution of trade policies. Among them, some studies focus on the impact of the trade war on the global economy, exploring the impact of the trade war on the global industrial chain, global value chain and global trade pattern. Other studies have focused on the root causes of trade wars, analyzing the political, economic, and geopolitical drivers behind trade wars. At the same time, some scholars study the impact of trade wars on specific industries or countries, and explore how trade wars change industrial competition patterns and international trade patterns.

In terms of global value chains, scholars have studied the evolution of global production networks and the international division of labor. They analyzed the formation and evolution of the global value chain, and studied the status and role of each link in the global value chain. Some studies have also explored imbalances and risks in global value chains, as well as potential problems in global value chains, such as environmental pollution, labor rights and other challenges. In the study of multinational enterprises' coping strategies, scholars have devoted themselves to exploring how enterprises cope with the uncertainties and risks brought by the trade war. The strategies of supply chain diversification, regional market diversification, technological innovation and production efficiency improvement are widely concerned in the research. Some case studies also provide examples of coping practices adopted by specific companies during the trade war, demonstrating the differentiated coping strategies among different companies.

2.5 Research Status

While there has been a wealth of research on trade wars, global value chains, and multinational corporate coping strategies, there are still some knowledge gaps and limitations. First, there is still some uncertainty about the mechanism of the trade war's impact on global value chains. While some research has revealed the impact of trade wars on global supply chains and transnational production, it is not yet fully understood how trade wars affect firms' global production layout and value chain organization. Secondly, the effectiveness and sustainability of multinational enterprises' coping strategies need to be further studied. In the case of ongoing trade wars, enterprises' coping strategies may need to be constantly adjusted and improved to adapt to the changing international economic and trade environment.

In addition, existing studies mainly focus on the response of large multinational enterprises in the trade war, and relatively little research on small and medium-sized enterprises and enterprises in developing countries. However, these companies play an important role in the global value chain, and their response strategies are equally important for the stability and development of the global economy. To sum up, although many scholars have studied trade wars, global value chains and multinational enterprises' coping strategies, there are still some problems that need to be further explored. This paper aims to fill these research gaps and provide more comprehensive and practical guidance for the global economy and multinational enterprises.

3. THE NECESSITY OF IMPLEMENTING IDEOLOGICAL AND POLITICAL EDUCATION IN ENGLISH TEACHING IN HIGHER VOCATIONAL COLLEGES

CNC lathe programming and machining is a core professional course, which not only requires students to have solid basic ability, but also needs students to master certain practical operation content, to make full preparation for the zero-distance post graduation. However, the basic knowledge of NC lathe programming and processing majors in many vocational colleges is relatively weak. Therefore, it is necessary for relevant teachers to improve students' interest in learning and tap the potential of students majoring in NC lathe programming and processing in this way, which is also the main development direction of current NC curriculum.

The development of society has led to the development of global economy, which makes the contact between countries become closer. English is mainly used in communication with people from different countries. The development of global economy has led to the attention of our country for English learning. The development of English education in China is relatively short, so it has not made a good breakthrough in the process of education. With the development of science and technology and the close communication form of various countries, many western cultures have poured into our country, resulting in the collision with Chinese culture. In this case, the world values of vocational college students who are good at accepting new things are extremely tolerant. Therefore, in this case, it is very important to strengthen and construct the ideological and political education system in English curriculum [2].

3.1 Promoting Investment and Financing in Addressing Climate Change

Promoting Investment and Financing in Addressing Climate Change was issued by the Ministry of Ecology and Environment [No. 57, 2020], on October 21, 2020. Climate investment and financing refers to the investment and financing activities that guide and promote more funds to invest in the field of climate change in order to achieve national independent contribution goals and low-carbon development goals. It is an important component of green finance [12]. The theoretical framework of self-efficacy mainly comes from social cognitive theory. According to social cognitive theory, individuals assess their own ability and confidence by observing the behaviour and outcomes of others, which influences their behaviour and effort. According to Bandera, self-efficacy is composed of four factors: experience, imitation, social support, and affective state. Experience refers to an individual's self-efficacy that has been accumulated through past experiences of success or failure. Imitation refers to increasing self-efficacy by observing the behaviour and outcomes of others. Social support refers to the recognition and encouragement of an individual's abilities by others. Affective state is the individual's emotional response to task completion.

3.2 Coordinating Environmental Protection and Climate Change Adaptation Policy

Coordinating Environmental Protection and Climate Change Adaptation Policy was issued by the Ministry of Ecology and Environment [No. 4, 2021], on January 11, 2021. With the goal of peaking carbon dioxide emissions and carbon neutrality as the driving vision, focusing on synergy, adhering to institutional concepts, and comprehensively strengthening the overall integration of climate change and ecological environment protection [13]. Currently, there are many measurement tools for self-efficacy. The most commonly used is the Self-Efficacy Scale, which was developed by Professor Bandera and has been widely used in empirical research. In addition, there are some domain-specific self-efficacy measurement tools, such as the Academic Self-Efficacy Questionnaire, the Occupational Self-Efficacy Questionnaire, and the Health Self-Efficacy Questionnaire.

3.3 China's Policies and Actions on Climate Change

The white paper "China's Policies and Actions on Climate Change" issued by the State Council Information Office of the People's Republic of China (Xu et al., 2023). The national carbon market was officially launched on July 16, 2021. It includes 2162 major emitters in the power generation industry, covering approximately 4.5 billion tons of carbon dioxide emissions, making it the world's largest carbon market [14]. Self-efficacy is influenced by a variety of factors. Research has shown that factors such as an individual's gender, age, personality traits, and social support have an impact on self-efficacy.

In addition, the complexity of the task, the accuracy and frequency of feedback also affect an individual's sense of self-efficacy. Specifically the following factors influence. Individuals' own experience of success or failure in their behaviour. It is the most dominant (central) factor influencing self-efficacy. In general, successful experiences increase efficacy expectations and repeated failures decrease them. It is important to note, however, that the effect of successful experiences on efficacy expectations is also shaped by the way individuals attribute them. If individuals attribute successful experiences to external, uncontrollable factors (e.g., luck, difficulty, etc.) they will not enhance efficacy, and if they attribute failures to internal, controllable factors (e.g., effort) they will not necessarily reduce efficacy. Thus, attributional style directly affects the formation of self-efficacy. To put it another way, it can be said that success is an experience of doing small things first, building up, and then doing big things.

3.4 Climate Change Adaptation Strategies for 2035

Climate Change Adaptation Strategies for 2035 was issued by the Ministry of Ecology and Environment [No. 41, 2022], on June 7, 2022. Proposed the main goals of China's adaptation to climate change in the new era, and clarified the key areas, regional patterns, and safeguard measures for China's adaptation to climate change based on the exposure and vulnerability of various fields and regions to adverse impacts and risks of climate change [15]. Alternative experiences. Alternative experiences of others also affect self-efficacy. When an individual sees someone with a comparable level of competence to his or her own (as a substitute) succeed in an activity, he or she believes that he or she can be equally successful when placed in a similar activity situation, thus increasing self-efficacy. The reverse is also true.

Verbal persuasion. By convincing students that they are capable and that they are able to perform learning activities and tasks through reasoning, students will be motivated to learn and strengthen their perseverance in overcoming difficulties. Verbal persuasion is widely used because of its simplicity and effectiveness. Emotional arousal. High levels of arousal affect self-efficacy by lowering performance, and people are more able to expect success when they are not bothered by annoying stimuli. For example, nervousness and anxiety and poor energy tend to reduce people's judgement of self-efficacy.

4. MEASURES TO IMPROVE THE CONSTRUCTION OF IDEOLOGICAL AND POLITICAL EDUCATION SYSTEM IN HIGHER VOCATIONAL ENGLISH TEACHING

The first aspect is that college students need to adhere to the concept of lifelong sports when they exercise in higher vocational colleges. The second aspect is that lifelong sports is gradually formed based on higher vocational sports, belonging to extension and expansion. The third is that the common goal of higher vocational sports and lifelong sports is to improve people's physical and mental health, but also pay attention to people's physical and mental balance. The fourth aspect is that although the contents of the two are different, there are many similarities in the items, such as football, basketball, track, and field, etc. With the continuous reform and innovation of China's education, the teaching methods of many subjects have undergone great changes. Among them, the courses of NC lathe programming and processing specialty in higher vocational colleges are also changing constantly, especially in order to systematically cultivate students' CNC lathe operation skills, it is necessary not only for the teachers of relevant NC majors to change the teaching forms, but also for CNC lathes the overall education mode and content are reformed. The emergence of micro course can solve this problem well. It not only improves the teaching design and quality of the whole course, but also greatly increases students' interest in learning. In this paper, the author analyzes the overall design of NC lathe programming and machining micro course resources, and expounds the construction methods and Strategies of NC lathe programming and machining micro course resources. Because the factors that affect the credit risk of enterprises are various and multi-level, for the selection of risk evaluation indexes, we use accounting related theory, from the perspective of the combination of quantitative and qualitative, eventually selected related evaluation index, and whether the default as dependent variable, using Logistic regression analysis of short-term forecast more accurate, for each enterprise credit risk considerations, and the results are nonparametric test to validate the feasibility of the model analysis, finally combining the credit risk and loan interest rates and credit strategy customer churn rate relations. Based on the data and parameters of a certain system given in question C of the national College Students mathematical Modeling Contest in 2020, as well as the transmission node diagram, this paper attempts to solve the following problems

4.1 Improve the ideological and political ability of Higher Vocational English teachers

In the curriculum education of higher vocational colleges, teachers play a guiding role. Therefore, in order to improve students' Ideological and political concepts in English learning, teachers' Ideological and political ability should be improved first. In order to effectively improve the ideological and political ability of teachers, teachers need to have higher political quality and professional quality. There are many special Western cultures in English courses. Teachers will also be impacted by western culture when they teach the course. At this time, if they want to be free from the influence of western culture, teachers themselves should learn from political theory. As for the cognition of the socialist core values, as long as the teachers themselves stand firm in the process of English education, they can enhance the possibility of the construction of Ideological and political education system in English teaching. In English curriculum, students' learning of Ideological and political ideas is also partly from teachers. Therefore, teachers, as the teachers of the course and the transmitter of culture, can have an impact on students only if they have a high ideological and political culture.

4.2 Clarify the media of Ideological and political education in Higher Vocational English teaching

The media of Ideological and political education mainly refers to the composition of the content, purpose, and method of Ideological and political education, which have different differences, but are important contents in teaching. In order to clarify the mediators of Ideological and political education in English education, we should first unify the purpose, method, and content of Ideological and political education. Only by keeping the three consistent can we enhance the ideological and political education in English learning. In Higher Vocational English education, the construction of Ideological and political education system should take patriotism as the core and moral education as the foundation, to improve the overall development of students. Secondly, the success of the construction of Ideological and political system in Higher Vocational College English teaching depends on the innovation of Ideological and political education mode. Only through innovation can the ideological and political system be better integrated into English teaching [3]. What's more, when it comes to the teaching method, it should be noted that the method can not be single, nor can it always use the traditional way, but should be realized in a diversified way, so as to continuously stimulate students' interest in exercise, so as to lay a good foundation for students' lifelong sports [4].

5. APPLICATION DOMAINS

Self-efficacy has important applications in different fields. In learning, self-efficacy can affect students' motivation, learning strategies and academic performance. In work, self-efficacy is closely related to job satisfaction, organisational commitment and performance. In health, self-efficacy can affect individuals' physical and mental health, self-esteem, and quality of life.

Further Extension of Self-Efficacy Theory in Various Applied Areas Due to the centrality of self-efficacy in human self-regulation, its research in various applied areas has gained widespread attention. A few major areas are illustrated below.

The field of education. Research in this area has focused on teacher efficacy and student self-efficacy for learning, and their effects on teaching and learning outcomes. Research has generally confirmed that teachers with high teaching efficacy have significantly higher teaching quality and student achievement than teachers with low teaching efficacy. In addition, students' learning self-efficacy has a significant impact on learning behaviour and achievement. Students with high self-efficacy were more capable of self-monitoring their learning and had a positive effect on their goal orientation and academic achievement. Further research found that students' learning self-efficacy for self-regulation had a greater impact on academic achievement in English and reading, and a lesser impact in maths.

Occupational and Organisational Domain. There is a lot of research within this field and self-efficacy has been shown to be one of the best predictors of performance. High self-efficacy promotes performance, while low self-efficacy affects performance growth. High self-efficacy motivates a person to attempt challenging tasks, set high levels of goals, and show strong goal commitment, thus improving performance. At the same time, a person with high self-efficacy has confidence in his or her abilities and a strong sense of self-control in life. In addition, a manager's leadership self-efficacy has a significant impact on organisational performance.

In the area of physical and mental health, Bandura suggests that self-efficacy affects human health at two levels. At the more basic level, people's beliefs about their ability to deal with stress affect their physical and mental

regulatory systems. The social cognitive psychology perspective suggests that stress reactions are the result of low self-efficacy to control threatening or overloading environmental stressors. If people believe that they can effectively control potential stressors, they will not be troubled by them; conversely, they will suffer from them and impair their level of physiological functioning. The second level at which self-efficacy affects health is expressed in the direct control people have over their personal health habits and physiological aging. This sense of self-regulatory efficacy affects their motivation and behaviour, thus determining whether they change bad habits, maintain good ones, and to what extent, and whether they recover from setbacks as quickly as possible. Other studies have dealt with the effects on mood and subjective well-being. It was found that there was a significant positive correlation between self-efficacy and Subjective Well-being and life satisfaction; a negative correlation with anxiety level; and a negative correlation with depression level.

6. FUTURE RESEARCH TRENDS

It has been 20 years since self-efficacy was proposed, but research on it has endured. From the literature search, it was found that there were more than two thousand research papers from 1991 to 1997 alone. This shows the importance of the theory in psychological research. In general, analysing the research in recent years, I believe that future research on self-efficacy should pay attention to the following aspects.

In the research on the relationship with other theories, we should not stay at the level of related studies, but should further analyse the causal links and determine the role of self-efficacy as an antecedent, a consequence or an intermediary. On the other hand, it is important to synthesise the relevant theories in general and analyse their overlaps and differences for further integration of psychological theories.

Emphasis is placed on studies that examine the causes and development of self-efficacy. Nowadays, most studies are conducted from a cross-section, and the measured self-efficacy lacks dynamics. However, self-efficacy is a variable in flux due to its close relationship with domains and emotions. Studying the mechanisms of its change and development makes it easier to grasp its role as a whole.

Emphasis on intervention research on self-efficacy. The role of self-efficacy in various fields of human life is self-evident, and how to improve people's self-efficacy through education, training, and other changes in the social environment is a topic of both theoretical significance and practical value.

The research on self-efficacy in various fields of application should be further expanded. On the one hand, it is important to validate and enrich the conclusions reached, and on the other hand, it is important to utilise the theory for its applied value, for example, in terms of its contribution to performance.

Examine the relationship between authentic competence and self-efficacy. Self-efficacy represents beliefs about competence, but not actual competence. What is the relationship between the two? Is self-efficacy high when actual ability is high? Does high self-efficacy promote actual ability? Is higher self-efficacy better?

Western psychological studies are mostly laboratory designs. Although this has the merit of tight control of variables, it lacks the power of practical application. In addition, the experimental subjects are mostly college students majoring in psychology. Although this should meet the requirement of subject homogeneity, it is less concerned about the complexity of the people in the situation. Self-efficacy research is no exception. Therefore, future research should pay attention to field experiments.

In conclusion, the study of self-efficacy is of great significance, especially the domestic research on it is still very insufficient, and it is necessary to make up for this gap.

7. CONCLUSION

To sum up, in English Teaching in higher vocational colleges, the construction of Ideological and political education system can effectively improve the development of students' comprehensive quality and the correct formation of their own values of life. To effectively construct the ideological and political education system in English teaching, teachers should not only strengthen their own study of ideological and political courses, but also enhance the enthusiasm of students and ideological and political teaching. Only in this way can ideological and political education play a beneficial role in English education. To sum up, in the context of quality education, higher vocational colleges in China gradually pay attention to the physical quality of students, and under the

influence of lifelong sports consciousness, both educators and students have paid attention to sports training. However, from the relationship and difference between lifelong sports and higher vocational sports, although there are similarities and differences between them, teachers should deeply analyze the physical needs and development direction of college students in this age stage, and then formulate the content and method of education. Only in this way can we ensure the continuous rise of College students' physical and psychological quality, to promote them Comprehensive development.

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