

Research on the Establishment of the Teaching Diagnosis Improvement System of "Five Links" Vocational Colleges

——Take Securities and Futures as an Example

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Abstract: According to *the state council about accelerate the development of modern vocational education decision, internal quality assurance system of higher vocational colleges diagnosis and improve the guidelines (try out)* and other documents of instruction spirit, improve the quality of vocational colleges and universities personnel training, must be to establish diagnosis and improve the system of vocational colleges teaching as the breakthrough point, eventually from the school to the professional to passenger ship to teachers and students "five links" diagnosis system, take the teacher and students as the basic foothold, the major curriculum as the main gripper, with the school to build a "five links" normalized internal quality control system and systemic clinical change mechanism, clear the main body of responsibility, We will ensure the smooth operation of the system and provide a fundamental guarantee for personnel training. This paper will take the construction of the "five links" diagnosis reform system as a starting point, and take the construction of securities and futures specialty in vocational colleges as an example to reflect on the reform of teaching diagnosis in vocational colleges.

On June 23, 2015, the general office of the ministry of education issued *the notice on the establishment of the system of teaching diagnosis and improvement in vocational schools*, which put forward new requirements on how to improve the internal quality assurance system of vocational education and establish a regular mechanism for vocational schools to independently guarantee the quality of personnel training. Means that the whole of the administrative supervision system will be engaged in the former regulation gradually shift to things afterward regulation, vocational colleges has become the talent training quality, the main responsibility of the which requires various vocational colleges too, really fulfill management responsibilities, establish independent teaching diagnosis improvement system to ensure the quality of talent training, continues to improve the ability of vocational colleges.

1. Establishment of Teaching Diagnosis Improvement System at School Level

School was set up teaching diagnosis system instead of a macro level, the vocational colleges need to much starker choices and graver consequences in planning on the basis of the goals of the development, combined with the case of school, according to the articles of association of the school, school deepening comprehensive reform, in order to improve the system of standards and system construction, to set up the modern culture of quality, to enhance the quality consciousness as the foundation, supported by information platform of talent training, to improve the quality of the school staff awareness, the full implementation of quality management concept, put change system construction into the daily work of school, the school education teaching level of continued ascension.

First, establishing a sound organizational structure

In order to ensure the smooth progress of the school's diagnostic improvement system, the school party committee should first determine the school's orientation, and make clear the direction of the

school, and make overall plans to formulate the college's macro development plan, quality objectives and standards. At the same time, it has established a special organization for the work of diagnosis and improvement, with the main party and government leaders of the college as the group leader. The main responsibility of this organization lies in the top-level design of the internal quality assurance system of the college. To study the concept of internal quality assurance system construction and diagnosis reform, to guide the formulation of quality assurance system and quality culture construction plan at college and professional level; To deploy internal quality assurance system construction and diagnosis and improvement tasks, to promote and coordinate the whole hospital diagnosis and improvement work; To evaluate the performance of independent quality assurance in each department of the college.

The office of clinical reform under the leading group is mainly responsible for the formulation of clinical reform work plan and work plan, annual clinical reform work plan, and summary; To be responsible for the coordination and material management of internal quality assurance system construction, diagnosis, and improvement; To report to the leading group on the progress of the work, and release or circulate the information of diagnosis and improvement.

On the basis of the leading group of diagnosis reform, the teaching quality assurance group, the quality assurance group of teaching staff, the quality assurance group of student training, and the internal quality assurance system diagnosis and improvement monitoring group should be established according to the different emphases of the work.

Among them, the responsibility of the teaching quality diagnosis and improvement group is to study professional teaching standards and guide the development and improvement of professional talent training programs and curriculum teaching standards of secondary schools based on the requirements of the school's target chain and standard chain and the direction of the school's major construction. To supervise the construction and implementation of each major and curriculum, to promote self-diagnosis and improvement of each college, and to promote the continuous improvement of teaching quality assurance.

The primary responsibility of the quality assurance team is to develop quality assurance plans and standards for teachers. To establish and improve the management and incentive system for the construction of teaching staff, to provide institutional guarantee for the construction of high-level double-teacher teaching team; The implementation of the talent development strategy, the establishment of the supervision mechanism of the construction of teachers ensure the quality of the construction of teachers to improve steadily.

The main responsibility of the working group is to develop quality plans and standards for the overall development of students. To improve the quality management and incentive system for students' overall development; To establish a quality independent guarantee mechanism for students' all-round development and promote self-diagnosis and improvement; To feedback the diagnosis report and improvement suggestion, and to write the student overall development quality annual report.

The main responsibility of the internal quality assurance system diagnosis and improvement monitoring group is to guide the top-level design of the internal quality assurance system construction. To assist the college to carry out the internal quality assurance system construction and personnel training for teaching and clinical reform, and to guide the implementation of clinical reform; Conduct a systematic inspection on the operation of the internal quality assurance system of the college every semester, and make timely Suggestions on early warning and diagnosis; To write a report on the supervision of teaching work. The organization structure of specific diagnosis and improvement work is shown as follows:

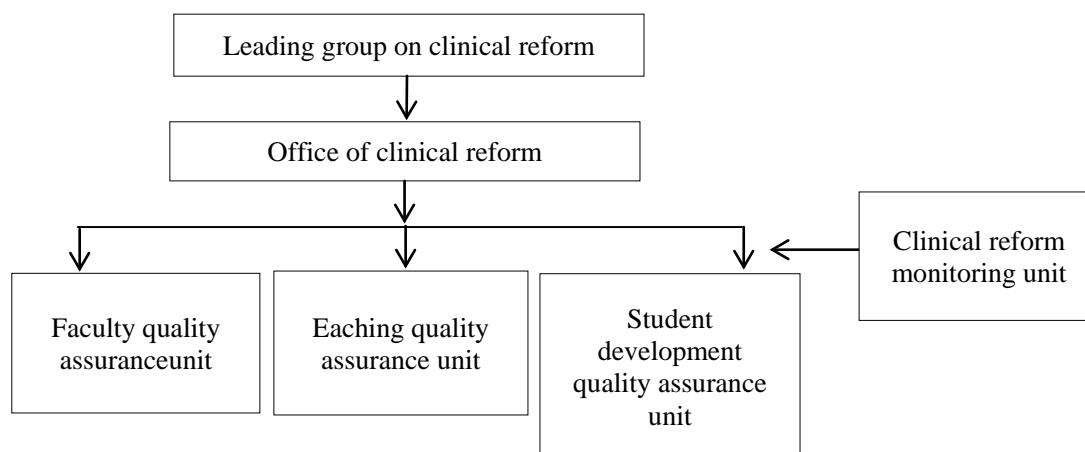


Figure 1 organization structure of the working group on diagnosis and improvement
Second, establishing a target and quality system

In order to improve the objective system of vocational colleges, vocational colleges should first answer five questions: first, is the school orientation accurate? How to ensure accurate orientation? Second, is the professional setting reasonable? How to ensure a reasonable professional setup? Is the teaching arrangement scientific? How to ensure the scientific course arrangement? Four is the existence of institutional guarantee? How to ensure strong institutional support?

Accordingly, vocational colleges should be based on much starker choices and graver consequences in planning, combined with its own characteristics, on professional construction, scientific research and social service, college students' education, the construction of campus informatization service, and so on various aspects to develop comprehensive deepening reforms, and according to the plan outline, further determine the focal areas, building plan, clear the annual construction goal, task and measures, the desired effect, the formation of college planning target execution chain with the departmental plan and the implementation of the annual work plan, and will target task completion with performance appraisal work, and to ensure the completion of tasks of planning target.

At the same time, a standard system covering all levels of professional teaching, teachers, and students should be established in accordance with the college's target chain, so as to form a standard chain regulating the quality requirements of all work levels of the college, to promote all departments and faculty members in the school to consciously fulfill the main responsibility of quality assurance. Perfect the professional setting and exit standard, optimize the professional layout; Improve professional construction standards and professional teaching standards, improve the quality of professional personnel training; To promote the teaching reform focusing on curriculum ideology and politics, revise the curriculum standards and graduation design standards, optimize the teaching organization model, and improve the teaching quality; We will improve the code of professional ethics for teachers, the standards for identifying qualified teachers, and the standards for hiring and evaluating part-time teachers, professional leaders and key teachers in enterprises. With the goal of serving students' all-round development, we should further improve the evaluation standard of students' comprehensive quality, form the academic evaluation standard combining students' academic performance with vocational quality, and cultivate students' ability of sustainable development. Focus on the quality of personnel training, improve the working standards of management service positions, and establish an efficient management service system.

Third, establishing and improving information platforms

The information platform of talent training work covers the key indicators of talent training work in vocational schools, which can objectively reflect the running ability of vocational schools, thus enabling schools to better grasp the process of talent training, which is the basis of the operation of the teaching work diagnosis and reform system in schools.

Vocational colleges should build information platforms well. First, they should make use of new technologies such as cloud computing, big data, and Internet of things to innovate ideas and

promote service awareness. The second is to set up a scientific and effective system of data applications, docking work state data collection of talent training and the management platform, with all kinds of light application development and function of the system application fragmentation for support, through the mobile terminal and PC real-time acquisition reflect the quality of key data, change the diagnosis platform of data set, data cleaning, data analysis, and data display, forming terminal multi-channel information collection, can have total factor network diagnosis and early warning function of quality management system, provide information security for change of job of teaching of clinical operation. Three is to build a reliable data management team with technical level technical level, in the personnel training work status, on the basis of data collection and management platform, combining the reality of their own school informatization construction, optimize the structure of data collection, analysis, mining, building perfect quality early warning mechanism, eliminate various unfavorable factors affecting the quality of personnel training as soon as possible.

2. The Establishment of Professional and Curriculum Level Teaching Diagnosis Improvement System

First, teaching diagnosis improvement system at the professional level

The professional level is the middle level of the establishment of the teaching diagnosis improvement system, and the subordinate majors are the main focus of the teaching diagnosis improvement system in vocational colleges. This need school and secondary school in the professional talent training scheme to ensure that the implementation can meet the requirements of training goal, on the basis of revising the professional talent training scheme, to perfect the course system, clear quality control point, establish and perfect professional construction standard system, improve and perfect the talent training quality evaluation, to promote, teaching, "Internet + education", social services, training system as the main points of diagnosis and improvement of the implementation of professional construction. The following will take the securities and futures major as an example to analyze in detail how to establish the teaching diagnosis and improvement system at the professional level.

1. Establishment of teaching diagnosis improvement system for securities and futures specialty

(1) the professional overview of securities and futures and existing problems

The major of securities and futures is one of the main majors of economics and management in vocational colleges, and also the core major of finance. This major mainly trains the compound applied talents who meet the needs of the construction of socialist market economy, develop morally, intellectually, and physically, and have a high level of investment management. Students are required to learn the basic theories and knowledge of finance, securities, futures and finance, master the planning and methods of trading in securities, futures, and foreign exchange markets, and have the practical ability to engage in securities investment consultation, operation, management, foreign exchange investment, and futures trading.

And in the vocational schools that offer this major, there are a few common problems: first, the major has a low social awareness. Due to the great similarity between this major and finance major, examinees and parents often confuse this major with finance major. At the same time, with the fluctuation of the stock market, the enrollment of this major also has a greater uncertainty. Second, practical teaching resources are not rich enough. The major of securities and futures is a practical major, and the general practice should account for about 60%. However, among the vocational colleges, the teaching resources of professional courses are mostly theoretical resources, while the practical teaching resources with the characteristics of stock market operation, securities analysis, and securities broker are few. In addition, this major still has the problem of limited ranking promotion in provincial and national competitions. The third is the lack of online Internet education platform. Due to the rapid development of securities and finance, relevant knowledge concepts are updated quickly, while many online Internet education platforms still need to keep pace with The Times. Fourth, the professional social service ability needs to be improved. Although the securities and futures majors in some vocational colleges have cooperated with some securities companies

and fund companies in textual research and professional training, they are far from enough in depth and breadth.

(2) Professional diagnosis and reform ideas of securities and futures

First of all, we should expand the publicity, improve the professional awareness, continue to increase the enrollment of securities and futures majors, use cloud computing, big data, the Internet of things, and other new technologies to promote the securities and futures majors, combined with the advantages of Shanghai's modern financial center, expand the influence of securities and futures majors. Next, should strengthen the construction of online course teaching, according to the characteristics of the major, on the basis of teaching resource, set its own resources and business resources outside school, emphasis should be placed on the two online courses platform construction namely securities online course platform and futures online platform, through the construction of the two platforms, finally built the securities and futures professional online course platform, as shown in figure 2:

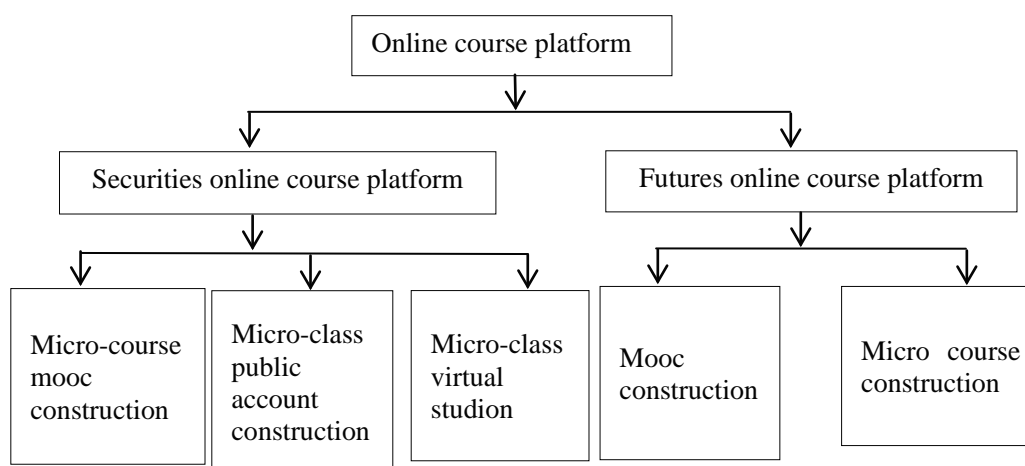


Figure 2 online course platform for securities and futures professionals

In practical training, we should pay attention to the integration of practical training and teaching, and lay emphasis on cultivating students' practical ability and practical ability. Under the circumstance that the existing hardware facilities are becoming more and more complete, we should start to strengthen the software construction. It is necessary to increase all kinds of securities teaching software and strengthen teachers' training in computer teaching to create a better practical environment. In addition, the training should be dominated by the teacher, not only should also give full play to student's study enthusiasm, encourage the students spontaneously formed securities investment interest groups, and make full use of the training of the classroom now, under the lesson through with professional teachers, arrange students to participate in a variety of class organization contest of securities trading, financial competition, etc. The following table shows examples of practical training construction projects:

Table 1 examples of practical training construction projects

Teaching software	function
1. Securities and futures simulation trading system	Securities and futures simulation training
2. Securities practice examination question bank	Practice and test questions
3. The curriculum system of micro course in colleges and universities	Online teaching
4. Investment and finance competition and teaching software	The teaching practice of investment and financial management

At the same time, the construction of practical training projects should be combined with the students' competition, "promote the competition by learning, promote learning by competition", strengthen the students' competition training, and improve the reputation and popularity of the school.

In terms of expanding social services, the professional financial culture should be radiated to the campus through school-enterprise cooperation and inter-school cooperation, so as to establish a good reputation of the profession in the society.

(3) summary of the reform system of professional teaching and treatment

According to the spirit of [2015] no. 2 document of the ministry of education, professional diagnosis reform should be independently undertaken by colleges and universities. But different schools and different majors are facing different problems, vocational colleges should focus on the diagnosis and improvement of professional teaching process according to their own specialty setting characteristics, adhere to the principle of "demand orientation, self-assurance, multiple diagnosis, focus on improvement" to take different measures to diagnose and improve.

Second, establishment of the teaching diagnosis improvement system at the curriculum level

The curriculum is the concrete embodiment of the achievements of the professional level diagnosis improvement system. Therefore, the establishment of the professional level diagnosis improvement system inevitably involves the establishment of the relevant system at the curriculum level. In terms of curriculum, the office of academic affairs should first formulate the curriculum construction plan and improve the curriculum director system. Each department formulates the curriculum construction objectives, and the curriculum leader formulates the curriculum standards. And each college should carry out each kind of high-quality courses construction, and implement the course person in charge system, in order to improve the course teaching quality. At the same time, it is necessary to improve the teaching conditions, training conditions, information teaching resources, and other measures to provide conditions for the quality assurance system.

Taking the major of securities and futures as an example, according to the requirements of "project-based teaching" for 8 core courses, the practical training instruction of core courses and the course resource database should be prepared, and the corresponding investment skills or brokerage marketing skills of securities or futures should be developed to increase the practical teaching resources of courses. At the same time, we should build online course platform for securities and online course platform for futures. Based on the teaching resource database, we should integrate the self-owned resources of the school and the Shared resources of other colleges and universities and focus on promoting online interactive live teaching and virtual training.

Table 2 construction of online course platform

The project name	Specific construction contents
Securities online course platform	<ul style="list-style-type: none"> ●Micro course construction, Mooc construction ●Micro course public account construction ●Micro-course virtual studio construction
Construction of futures online course platform	<ul style="list-style-type: none"> ●Micro-course construction ●Mooc construction

3. Establishment of Teaching Diagnosis Improvement System at Teacher and Student Level

First, establishment of a teacher-level teaching diagnosis improvement system

The teacher is the basic standpoint to implement the diagnosis improvement system, determines whether the diagnosis improvement system can be implemented, and is the construction of the diagnosis improvement system at the micro level. Schools should strengthen the construction of teachers' ethics, teaching management, teaching and scientific research, improve teachers' ability to teach and serve the society, strive to train young and middle-aged backbone teachers, and strengthen the construction of professional teaching teams. The following will take the construction of securities and futures professional teachers as an example to discuss.

1. Establishment of the diagnosis and improvement system for securities and futures teachers

At present, there are some problems in securities and futures major of vocational colleges, such as the lack of "actual combat" of professional teachers in financial practice, the lack of international

financial vision of the teaching team, the need to improve the professional title of teachers, and the low contribution of professional teachers' scientific research ability to social services.

In view of the above problems, securities, and futures majors in vocational colleges should put forward different clinical reform plans according to different teachers. For professional leaders, they should be encouraged to participate in domestic and international academic conferences, improve their international vision, undertake scientific research projects in the financial field, and improve their scientific research ability and academic communication ability. For key teachers, emphasis should be placed on training their practical operation and application ability. They can be provided with opportunities to work in financial companies such as securities and futures and participate in special training on innovative financial derivatives trading. For the introduction of new teachers, the emphasis should be placed on examining the practical experience of new teachers in the securities industry and the thinking ability of programmed software. In terms of teaching team building, special training on teaching ability, special lectures on financial transactions and irregular project guidance by influential part-time teachers in the industry should be carried out regularly.

In terms of salary design, we should establish a salary incentive mechanism that is fully linked to teachers' professional titles, teaching quality, and scientific research achievements, so as to better promote the construction of professional teachers in securities and futures.

And on the curriculum construction, teaching should be based on project requirements, form a core curriculum resource, increase the combat teaching resources, strengthen the securities investment technique training of the students, at the same time should be around the futures trading in the securities investment theory and practice, practice, investment, and financial management core curriculum system, the construction field, provincial and national high quality courses.

2.Summary of professional teacher diagnosis and improvement system construction

In a word, in the construction of professional teacher diagnosis and reform system, schools should scientifically design the teacher growth and development system based on teacher development standards. Through regular special training programs, teachers' teaching training, enterprise practice projects, academic exchanges, and other measures, teachers' professional development level is constantly promoted. At the same time, it is necessary to establish the incentive system and quality assurance accountability mechanism in line with teacher development standards, including salary distribution, promotion of professional title, teaching and research achievements, etc. According to students' academic results, curriculum evaluation, scientific research achievements, professional title promotion, and other data, as the basis of self-diagnosis, motivation, accountability.

In the daily course teaching, we should carry out the construction of all kinds of high-quality courses, implement the course teaching and improve the teaching quality by improving the teaching conditions, training conditions, and the development and use of information zed teaching resources.

Second, the establishment of the teaching diagnosis improvement system at the student level

Students are the ultimate service objects of the school, and all teaching and clinical reform measures are for students. At the student level, first of all, the student affairs office, the youth league committee, need to formulate college students' quality education plan and students' overall development standards, each department sets students' overall development goals and students' academic standards, and students develop their own comprehensive development plans. Through the top-level design to plan the overall thinking of student growth and development. Secondly, aiming at the idea that vocational colleges should focus on cultivating students' practice, the comprehensive quality and all-round development ability of students should be improved by guiding students' professional learning, entrepreneurship and innovation education, and social practice. In addition, in terms of school hardware and software, it is necessary to improve learning facilities, living facilities, and the "four-in-one" campus form construction, enrich the second classroom activities, and so on, so as to provide conditions for the comprehensive development of students. In addition, students also need to pay attention to the quality control of work. Therefore, this requires internal evaluation of students' academic level, learning style, and conduct, and hiring a third party to do graduate tracking survey. Then, students' development is guided and monitored,

and improvement measures are proposed.

4. Conclusion

The construction of teaching and clinical reform system is a systematic, long-term, and fundamental work, whose essence lies in the establishment of a normalized quality mechanism for the cultivation of independent talents in vocational colleges. The construction of the "five links" teaching and diagnosis improvement system needs to take teachers and students as the foothold, professional courses as the main focus, schools as the focus, through the macro, meso, and micro levels of mutual cooperation and coordinated promotion, to finally build a complete teaching and diagnosis improvement system.

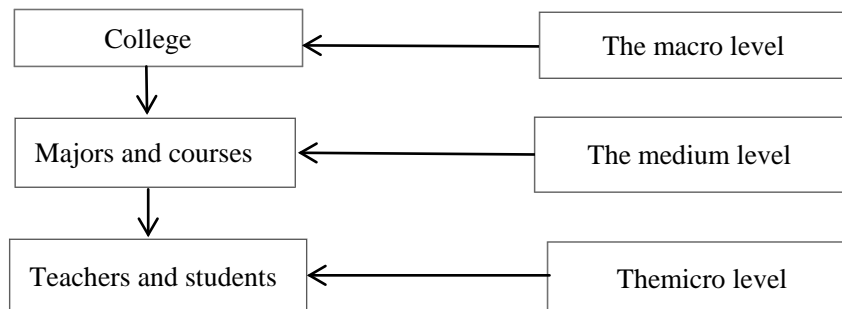


Figure 3 "five links" teaching diagnosis improvement system

In a word, the reform system of teaching and clinical diagnosis is a higher quality requirement put forward by social development to vocational colleges in the new era, a practical guarantee to provide high-quality vocational education for the society, and also a practical need of China's economic development.

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