

# Research on the Construction of Full-time Professional Degree Graduate Training Quality System\*

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## ABSTRACT

Combined with the current situation of postgraduate professional degree training, the factors affecting the quality of full-time professional degree postgraduate training was systematically clarified. Through innovating the full-time professional degree postgraduate training and teaching system, and optimizing the government led "politics, industry and science" practice base alliance, the professional oriented characteristic training purpose of professional degree postgraduate was continuously deepened. Some ideas for the reform and innovation of the training mode of professional degree postgraduates in China were provided .

**Keywords:** Professional degree, Fulltime postgraduates, Postgraduate training, Quality system.

## 1. INTRODUCTION

Strengthening professional degree graduate education is an important way to cultivate high-level applied professionals. It is also important content to highlight the adjustment of graduate education structure and realize the parallel training of different types of graduate students. A professional degree is oriented by professional practice, which is different from an academic degree focuses on theoretical research and attaches importance to practice and application. Its main purpose is to "accelerate the training of high-level applied professionals required by economic construction and social development" [1].

In recent years, Chinese educators have carried out a lot of research on the process design, model construction, and base innovation of professional degree postgraduate training [2][3]. The research

shows that there are some problems in China's professional degree graduate education, such as lack of practicality and further improvement of professional connection, which are prominently reflected in the lagging construction of professional degree graduate training quality system, training needs, fuzzy evaluation indicators and lagging connection with enterprises (industry), which affect the quality of professional degree graduate training to a certain extent [4]. To improve the training quality of professional degree postgraduates, it continues to implement the guidance of specialization and professionalization oriented to engineering technology application and industry technical services, and also deepens the reform and innovation of the quality system of two teaching and practice platforms inside and outside the school [5].

Combined with the current situation of the cultivation of full-time professional degree postgraduates, this paper systematically clarifies the influencing factors of their cultivation quality, continuously deepens the characteristic cultivation purpose of professional degree postgraduates by innovating the practical training and teaching system of full-time professional degree

\*Fund: This research was financially supported by the "General program on Chinese society of academic and graduate education(2020MSA412)", "General project of Educational Science Planning in Hubei Province,China(2020GB014, 2018ZA001)", "Graduate education reform research of Wuhan University of Science and Technology, P.R.China(Yjg201927, Yjg201805)", and "General project of Humanities and Social Sciences Research of Hubei Provincial Department of Education(18Q025)".

postgraduates and optimizing the "politics, industry and science" practice base alliance led by the government, hoping to provide ideas for the reform and innovation of the cultivation mode of professional degree postgraduates in China.

## 2. CURRENT SITUATION OF PROFESSIONAL DEGREE POSTGRADUATE TRAINING

Professional degree graduate education originates from the development of science and technology and the continuous expansion of its application scope in social production and life. It is a type of graduate education established by colleges and universities to meet the needs of social professional development for high-level applied talents.

In terms of typesetting, there are 40 types of professional degrees in China at present: according to the catalog of disciplines for degree-awarding and talent training (2011), the distribution of professional degree categories in disciplines is shown in Figure 1, and the batch obtained over the years is shown in Figure 1. Among them, clinical medicine, engineering, veterinary medicine, Stomatology, education, and traditional Chinese medicine were approved with professional doctoral degrees in 1997, 1997, 1999, 2000, 2008, and 2014 respectively.

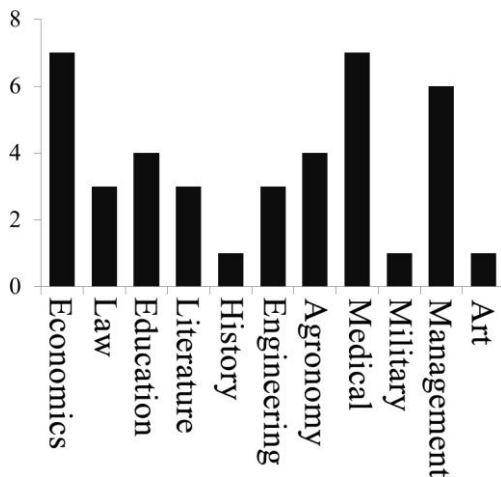


Figure 1 Distribution of degrees in various disciplines in China.

In terms of the training scale, according to the data of the Ministry of education and the National Bureau of Statistics, in 2010, there were 509 training units with the right to grant graduate professional degrees, 2679 master's degree authorization points, and 66 doctoral degree

authorization points in China; Among them, 118000 postgraduates with master's degree were enrolled, accounting for 24.82% of the total planned postgraduates. By 2016, more than 1500 master's degree authorization points had been added nationwide, of which 280000 master's degree postgraduates were enrolled, accounting for 47.4% of the total planned postgraduates. At the same time, according to the 13th five-year plan for the development of degree and graduate education, the proportion of professional degree master enrollment in China will reach about 60% by 2020.

## 3. ANALYSIS OF INFLUENCING FACTORS ON THE TRAINING QUALITY OF FULL-TIME PROFESSIONAL DEGREE POSTGRADUATES

Professional degree postgraduate education is practice-oriented, oriented to the industry (industry) to cultivate professional talents, pay attention to the combination of theory and practice in the process of postgraduate training, and strive to cultivate the ability of postgraduate students to apply specialized knowledge to research and solve practical problems. According to the professional knowledge, practical experience, and professional skill needs in the practical field of professional degree postgraduates, an analysis model of influencing factors on the training quality of professional degree postgraduates is established (as shown in Figure 2). The factors affecting the training quality of professional degree postgraduates are systematically divided into two categories: subjective factors and objective factors.

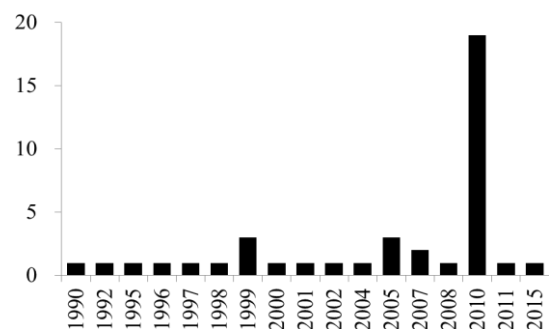


Figure 2 Professional degree categories approved in China.

### ***3.1 Cultivating Teachers' Comprehensive Ability Is the Key Factor Affecting the Training Quality of Professional Degree Postgraduates***

The tutors of professional degree postgraduates mainly include on-campus tutors and enterprise tutors. Although most colleges and universities have formulated corresponding schemes (Systems) for the selection, appointment, and assessment of professional master's tutors, the consistency between endogenous needs and external requirements needs to be further improved in specific practice and design.

### ***3.2 Weak Practical Ability Is the Primary Practical Problem That Restricts the Improvement of the Training Quality of Professional Degree Postgraduates***

Highlighting practicality is not only the successful experience of professional degree graduate education in developed countries but also the requirement of professional degree graduate education in China. Due to the reform and transformation of the enrollment mechanism, training mode, and educational concept of China's full-time professional degree graduate education, how strengthening the practical innovation ability of full-time professional degree graduate students has become an urgent problem to be solved in China's graduate education.

### ***3.3 The Design of the Practice Process and the Construction of the Practice Base Are the Solid Foundation That Affects the Accurate Positioning of Professional Degree Postgraduates***

The foundation of professional degree postgraduate practice lies in the platform, the source lies in practical problems, and the development lies in continuous improvement. In the implementation framework of professional degree talent training, the introduction of market regulation mechanism, relying on the professional needs of the market, deepening colleges and universities, enterprises, social professional associations, and non-profit organizations, and cooperating to build corresponding basic teaching platform, practice development platform, and professional ability improvement platform. The close cooperation between the training process and on-the-job training and industry experts will help to

continuously promote the whole process, professionalization, and practice Professional talent cultivation system.

### ***3.4 The Collaborative Model of Vocational Teaching and Practical Teaching Needs To Be Further Deepened and Innovated***

With the development of professional degree postgraduate education, the society as a whole makes great efforts to create a good social environment for professional degree education. The central and local governments guide and encourage industries, enterprises, social organizations, and professional organizations to actively intervene in professional degree education, guide the teaching process, participate in teaching evaluation, set up internship posts and provide internship conditions by formulating relevant policies. It is an important social responsibility for schools and enterprises (industries) to jointly cultivate professional degree talents.

However, due to the differences between regions and universities, the teaching contents of basic majors such as teaching design and curriculum of professional degree postgraduates do not correspond to the connection of industrial career development, including the cultivation of professional ethics, professional psychology, career planning and other professional comprehensive abilities, which need to be further designed and optimized. At the same time, the development of the practice base/platform, which is an important guarantee to promote the cultivation of professional degree postgraduates, obviously lags behind the expansion of the scale of professional degree postgraduates, the traditional platform operation mode restricts the expansion of professional degree postgraduates' practical ability, the actual effective operation proportion of the platform/base is low, and the enthusiasm of the platform supporting units is not high.

## **4. EXPLORATION OF THE CONSTRUCTION OF A TRAINING QUALITY SYSTEM FOR FULL-TIME PROFESSIONAL DEGREE POSTGRADUATES**

The "opinions" clearly require that the professional degree graduate education should highlight the characteristics of professional degree graduate education in terms of training objectives,

curriculum, teaching philosophy, training mode, quality standards, and teacher team construction. Only by clarifying the construction of a professional degree graduate training system with Chinese characteristics, regional characteristics, discipline characteristics, and school-based characteristics can it better reflect the characteristics of professional degree graduate training.

#### 4.1 Developing "Characteristic" Practical Teaching Is The Basis of Strengthening The Construction of Professional Degree Postgraduate Training Quality System

##### 4.1.1 Strengthening the Promotion and Expansion of Professional Skills of Postgraduates With Professional Degrees in Close Combination With the Needs of "Characteristics"

The construction of practical teaching connotation with school-based characteristics is the basis for the overall development, specialty setting, and discipline layout of colleges and universities. Specifically, it should put the training system of professional degree graduates within the overall development planning cycle of the development of the university, systematically combine the development needs of the University, the characteristics of professional research, and the current situation of discipline construction, and systematically optimize the training scheme of professional degree graduates, professional cross integration, achievement transformation and the efficiency of school-enterprise cooperation (as shown in Figure 3).

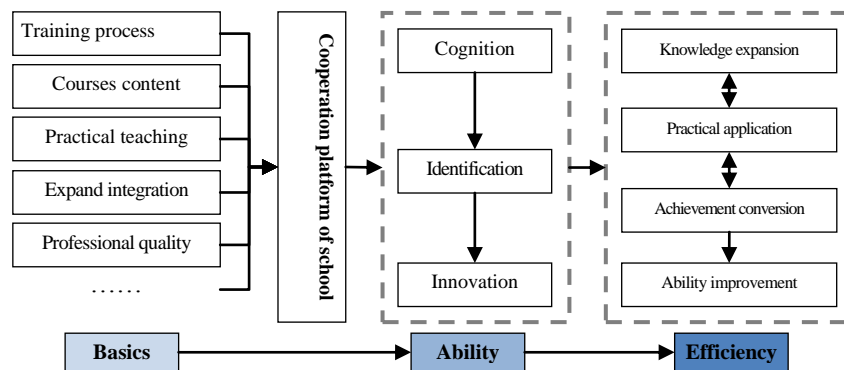


Figure 3 Phased process of professional degree postgraduate training

##### 4.1.2 Establishing a Hierarchical and Dimensional Community of Practical Teaching Cultivation System for Professional Degree Postgraduates

According to the needs of national and regional economic and social development, on the basis of the basic requirements for doctoral and master's degrees of professional degree categories (fields) formulated by the Ministry of education and in

combination with the actual situation of postgraduate education of the unit, the awarding standards of doctoral and master's professional degrees consistent with the school running orientation of the unit shall be formulated according to the fields and categories of professional degrees. Take the professional degree graduate students of different grades and majors as the main body, and strengthen the professional knowledge structure step by step in time to form a more systematic

professional logic, technical ideas, and career development of graduate students; Based on the practice base inside and outside the school and the cultivation of tutors inside and outside the school, innovate the practice mechanism, practice form, and practice efficiency through the improvement of spatial alternating quality and ability structure; With the guidance of social market orientation and the means of "school-enterprise society" comprehensive participation, through the continuous assessment, evaluation and optimization of demand, establish the cultivation mode of professional degree graduates facing the social requirements and needs.

#### ***4.2 The Practice Platform of Innovative "Alliance" Is the Guarantee To Promote the Construction of Professional Degree Graduate Training Quality System***

A practice base is a talent training platform jointly established by training units with industries, enterprises, and social organizations to strengthen the practical ability training of professional degree postgraduates. It is the main place for the professional practice of professional degree postgraduates and an important carrier of the combination of production and learning. Strengthening the base construction is the basic requirement for the cultivation of practical ability of professional degree postgraduates, and an important guarantee for promoting the transformation of educational concepts, deepening the reform of training mode, and improving training quality. Adhere to the government as the leading, enterprises as the platform, and universities as the support, explore, and build a "government-led, industry-university cooperation, multi-level, wide range and deep integration" practice base alliance of "politics, industry and science", realize the organic integration and coordinated development of the three through an effective operation mechanism, and form a new cooperation model of long-term complementary advantages, risk sharing and loose combination of organizations, which is beneficial to the cultivation of high-level applied talents, It plays an important role in improving the training quality of professional degree postgraduates.

## **5. CONCLUSION**

Professional degree is a degree type set up to meet the talent needs of specific social occupations and to cultivate high-end social professionals;

Expanding the establishment of professional degrees and actively developing professional degree graduate education will help to enrich the types of high-level talents and enhance the social adaptability of degree structure. With the development of professional degree postgraduate training and education for more than 30 years, the enrollment scale of professional degree graduates has been continuously expanded and the training mode has been continuously innovated, and the professional degree education with Chinese characteristics has been established. How to cultivate professional degree graduates with stronger practical application ability and meeting the needs of social development is an important issue in the reform of professional degree postgraduate education in China.

At present, the lack of comprehensive ability of professional degree graduate tutors, the weak practical ability of graduate students, the insufficient integration of educational resources and the low consistency of the corresponding education and training mode reform limit the development of professional degree graduate education; According to the 13th five year plan for the development of degree and graduate education, specific objectives and tasks are given for the development of professional degree graduate education. Through the development of "characteristic" practical teaching and innovative "alliance" practical platform, the foundation for the construction of professional degree graduate training quality system is strengthened on the basis of basic teaching In practical application, explore and build a "government led, industry university cooperation, multi-level, wide range and deep integration" practice base alliance of "politics, industry and university".

## **AUTHORS' CONTRIBUTIONS**

Yu Bai was responsible for experimental design, Yaobin Shi wrote the manuscript, Tao Liu contributed to revising and editing.

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