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Study on the Development Path of Professional Undergraduate English Teachers in the Digital Age of Education

Zige Huang

Hainan Vocational University of Science and Technology, HaiKou, 570100, China

Abstract: The purpose of this study is to explore the development path of professional undergraduate English teachers in the background of digital education. Through literature review and qualitative analysis, this paper defines the basic literacy required by English teachers in the digital age, including technical literacy, instructional design ability, continuous learning ability and innovative spirit. On this basis, a multi-level and systematic career development model is proposed, which focuses on the updating of teachers' skills, knowledge expansion, and the innovation of teaching concepts. The research emphasizes that teachers should continue to learn new educational technology tools by participating in training and discussion. Meanwhile, universities should build a supportive development environment, such as providing technical resources and building a learning community. The results provide a direction for guiding professional undergraduate English teachers' self-development against the challenge of digital education.

Keywords: Education digitization; Professional undergraduate English teacher; Professional quality development

With the continuous development and popularization of information technology, the digitalization of education has become the leading trend of global education development. This trend puts forward new requirements for teachers' professional quality, especially for professional undergraduate English teachers, who should not only master the solid language teaching knowledge, but also use modern information technology to enrich the teaching means and improve the teaching effect. Therefore, it is of great significance to study the development path of professional undergraduate English teachers in the digital era of education to improve the professional level of teachers and promote the modernization of education.

1. Deepen the English language knowledge and update the knowledge of educational technology

In the digital age of education, deepening English language knowledge and updating educational technology knowledge are two important aspects of the development of professional quality of professional undergraduate English teachers. For English teachers, deepening language knowledge does not only mean strengthening traditional teaching content such as grammar, vocabulary and pronunciation, but also includes a wide mastery of modern linguistic knowledge such as language culture, pragmatics and language learning strategies. This deep understanding enables teachers to more effectively solve the problems encountered by students in the process of language learning, and can stimulate their interest in and enthusiasm in language learning. With the rapid development of information technology, the field of education has also ushered in innovative and revolutionary changes, especially the increasing popularity of the application of teaching technology. Professional undergraduate English teachers need to constantly update and broaden their own knowledge of educational technology, which has a significant effect on improving the teaching quality and enhancing the learning experience. For example, teachers can learn how to use online course management platforms, how to integrate multimedia resources to improve classroom interactivity, and how to design and implement web-based interactive language exercises. These skills allow teachers to design vibrant classroom environments that meet the needs of students with different learning styles. Updating educational technology knowledge is not only to understand the latest teaching tool, but also an understanding of how to evaluate and screen educational technology for their own teaching style and students' learning needs. Teachers should have critical thinking to judge which educational technologies can really promote learning and which may be ineffective or even harmful. In addition, educational technology also provides a wealth of data that teachers should learn to analyze to improve teaching and personalize students' learning paths.

2. Proficient in the use of multimedia teaching tools, to carry out the network course design

With the further development of digital technology, multimedia teaching tools have become an important part of modern education. With their vivid and intuitive characteristics, they greatly enrich the teaching methods, and improve the students' interest in learning and the

teaching effect. In order to adapt to this development trend, teachers need to master the skilled use of multimedia teaching tools, and to be able to effectively integrate these tools into the teaching process through the design of online courses. The skilled use of multimedia teaching tools first requires the teacher to have a comprehensive understanding of these tools. This includes the most common ones such as PPT, video, interactive whiteboard, to more advanced virtual reality (VR), augmented reality (AR) technologies. Teachers should understand the basic operation mode of these tools, and more importantly, they need to learn how to choose the appropriate teaching tools according to the teaching content and students' needs. With the rise of online education, online curriculum design has become a hot topic in the educational field. The effective network course design requires not only the scientific and systematic content, but also requires the use of multimedia teaching tools to improve the teaching interaction and interest. This requires teachers not only to have solid professional knowledge, but also to have good information technology application ability and innovation ability. For example, the video explanation and online quiz can feedback students' learning situation in real time; the interactive discussion area can enhance students' interaction and enhance their learning motivation. In the process of using the multimedia teaching tools, teachers should pay attention to the auxiliary nature of the tools to ensure the dominant position of the teaching content. At the same time, take into account the diversity of students and design teaching activities that accommodate all students to ensure that every student can benefit from it. In addition, the network course design should also pay attention to the diversification of evaluation methods, and use multimedia tools for results display, online discussion, so as to make the evaluation more comprehensive and fair.

3. Encourage in-service training and participation in online learning communities

In today's knowledge economy era, enterprises and individuals are faced with the challenge of technological progress and rapid change of market demand. To remain competitive and adapt to this change, encouraging on-the-job training and participation in the online learning community has become an important direction. First, on-the-job training is no longer an option, but an integral part of workplace development. Continuous learning and skills are key to maintaining individual competitiveness. By encouraging employees to participate in training, enterprises can not only improve their professional skills, but also stimulate their innovative thinking and problem-solving ability, which is crucial for the sustainable development of enterprises and adaptation to market changes. Participation in online learning communities provides a more convenient and diversified path for on-the-job training. With the development of Internet technology, a large number of online courses and resources have become within reach. Whether through virtual classrooms or interactive online platforms, online learning communities that are not limited by time and region make knowledge sharing and learning communication more free and efficient. In addition, through online learning communities, professionals can establish connections with professionals from different industries and backgrounds. This kind of cross-border communication and cooperation provides a broader perspective and more possibilities for solving the difficult problems encountered in practical work. This not only promotes the improvement of individual ability, but also brings innovation inspiration to enterprises. However, making the participation of in-service training and online learning communities a norm requires the joint efforts of enterprises, educational institutions and government. Enterprises need to provide employees with time and resource support for learning, educational institutions should develop courses that more meet the needs of the workplace, and the government needs to introduce corresponding policies and incentive measures, such as tax incentives and learning subsidies, to encourage enterprises and individuals to invest in vocational learning.

4. Policy guidance and incentive, to establish a long-term mechanism for professional development

In a progressive social environment, professional development becomes the key to promoting the sustainable competitiveness of individuals, enterprises and even the whole country. Policy guidance and incentives play a vital role in establishing and maintaining the long-term mechanism of professional development. The first priority of policy guidance is to establish clear and feasible goals and plans to lead the direction of professional development. This involves an in-depth analysis of national and regional development needs, identifying key areas and skills to develop specific policies designed to support the development of these areas. Moreover, policy guidance can create a good environment for professional development, such as improving education and training systems and enabling individuals and institutions to better adapt to future challenges. The role of policy incentive mechanism is to encourage and promote the development and growth of professionals by providing practical incentive measures, such as financial subsidies, tax incentives and incentive plans. Such incentives can not only motivate individuals and institutions, but also encourage more investment into key areas such as education, training and research innovation. In this way, the continuous cultivation of talents and continuous technological innovation can be realized, so as to support the sustainable development of economy and society. In order to establish effective and long-term mechanisms, policy design also needs flexibility to meet the needs of technological progress and market changes. This means that policy makers must continuously monitor the effectiveness of policy implementation and make necessary adjustments based on feedback. In addition, long-term mechanisms should also include strengthening cooperation mechanisms, such as promoting cooperation between industry, universities and research institutes, as well as international exchanges and cooperation to jointly promote professional development and technological innovation.

5. Epilogue

Education digitization poses new challenges to professional undergraduate English teachers, requiring teachers not only to need traditional teaching ability, but also to have digital technology literacy, to effectively integrate all kinds of educational resources, and to design differentiated teaching programs according to different learning needs. Professional undergraduate English teachers should actively adapt to the trend of education digitalization, and constantly improve their personal information technology application ability, teaching design ability and self-learning ability, so as to keep up with the pace of education development. At the same time, colleges and universities and education authorities should provide necessary support and resources for English teachers, including regular training, communication platforms, advanced teaching tools and equipment, so as to jointly build a good environment conducive to the professional growth of teachers. Through these measures, we can ensure that professional undergraduate English teachers can give full play to their potential in the digital teaching environment and provide students with efficient and personalized language learning experience.

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