

The Enlightenment of Clinical Laboratory Skills Competition on Practical Teaching of Medical Laboratory Technology Major in Vocational Colleges

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Abstract: The holding of the National Laboratory Skills Competition is crucial for the medical laboratory profession. This competition can effectively showcase the professional level of teachers and students, promote industry exchange and reform, and also enable participating teachers and students to gain professional improvement and confidence enhancement. It has a positive impact on teaching reform and the construction of medical testing teacher teams, and plays an important role in promoting talent cultivation in the medical laboratory profession.

Keywords: Clinical testing; Skills competition; Professional practice; Personnel.

1. Introduction

In medical and health institutions, medical laboratory related talents are one of the core teams, which mainly provide important guarantees for people's health and well-being. With the development of medicine worldwide and the innovation of related medical testing technologies, the constantly emerging modern testing projects and advanced testing methods have provided more reliable, timely, and accurate information for clinical medicine, thus promoting the development of medicine to a certain extent. So, in order to ensure the quality of medical testing, the first step is to ensure the cultivation of testing talents. There are numerous professional competitions emerging nationwide, and the emergence of skill testing competitions is highly anticipated as an important stage for talent display, exchange, and learning.

2. Exploration into the Current Status of Talent Cultivation in Medical Laboratory Science

The medical laboratory technology major usually has a three-year program at the specialist level. The vast majority of colleges and universities usually choose to provide theoretical knowledge lectures on campus and undergo real life internships and apprenticeships in hospitals when it comes to talent cultivation. However, on the one hand, the students' practical learning hours are relatively short, on

the other hand, infectious diseases such as SARS virus, avian influenza, COVID-19 have frequently appeared in recent decades, which has led to the students' inability to go to the hospital for probation, and only through graduation internship can they really go to the front line to test practical knowledge, resulting in insufficient practical skills of students. However, when students are studying in school, the curriculum is usually very tight, and there is an imbalance between experimental and theoretical courses, which leads to a lack of enthusiasm for learning and even generates a sense of disinterest. The development of technology is faster than the updating of textbooks. Due to the limitations of hardware teaching environment, many practical experiments cannot be carried out in the training room, which makes it difficult for students to exercise the knowledge they have learned in practice, which is very unfavorable for their development. The faculty team within the institution usually has strong teaching skills, but there is often a lack of clinical practice experience among teachers, and teachers are unable to scientifically answer some deeper practical problems, which leads to ineffective improvement in teaching quality. Moreover, with the rapid development and practical application of artificial intelligence, as well as the continuous development of undergraduate and above education, the employment scope of vocational college students is limited, often only able to enter medical institutions at the township or county level, or third-party laboratories and other employment environments, which to some extent undermines students' learning confidence and aspirations for future employment.

3. Skills Competitions can Enhance the Confidence of Teachers and Students

In the National Skills Competition, the competition is usually divided into two parts, one for teachers and the other for students. The competition provides a platform for teachers and students to fully demonstrate their professional abilities. In addition to professional competitive competitions, the competition also collects relevant cultural and artistic performances from various universities for performances. While demonstrating professional skills, it also showcases humanistic feelings for teachers and students, promoting their confidence. Only by maintaining confidence in learning can one gain more lasting and profound learning motivation, thus laying the foundation for the subsequent development of teachers and students.

4. The Skills Competition has Promoted the Team Building of the Inspection Profession

As a national level skills competition, it serves as a benchmark for evaluating the teaching level of various universities in their daily teaching. The level of participating students is often reflected in the comprehensive literacy of teachers. Therefore, cultivating talents with excellent professional skills first requires attention to the construction of teacher qualification teams. To cultivate so-called dual teacher teachers. Dual teacher teachers need to possess both solid theoretical knowledge in teaching and professional clinical skills. Generally speaking, the vast majority of professional teachers currently lack clinical practice, mainly due to outdated and inadequate hardware facilities within the school. By participating in competitions or guiding students in competitions, teachers can return to the front line of medical care, regain their clinical laboratory professional practical abilities, and thus improve their practical level, effectively promoting the construction of dual teacher teacher teams.

5. The Skills Competition has Played a Role in Promoting the Deepening of the Teaching Reform Process

The skills competition has played a significant role in promoting teaching reform. By participating in

practical competitions, potential problems in teaching and talent cultivation of a university can be clearly reflected, and it can also deepen the university's understanding of the profession. In the rapidly developing modern society of science and technology, the requirements and goals of talent cultivation are constantly changing. In order to keep up with the pace of the times, colleges and universities should innovate and reform their talent cultivation strategies, effectively optimize the structure of professional courses, meticulously revise teaching syllabi, strengthen school enterprise cooperation, and improve hardware facilities such as laboratories in colleges and universities, so as to fundamentally optimize the cultivation of medical laboratory talents.

6. The Skills Competition has Promoted the Organization of on Campus Competitions

The impact of the National Inspection Skills Competition on major universities is profound, and its influence on the organization of school level competitions within universities is crucial. The guarantee factors for the efficient development of competitions are the specific requirements and relevant evaluation criteria of the competition, which are carefully discussed and revised by expert teams within the industry based on relevant industry standards. Through the experience of participating in national competitions, major universities have mastered relevant standards and experience, which has provided effective experience guarantee and professional evaluation standards guarantee for the organization of school level competitions. The holding of school level competitions can also encourage more teachers and students to participate in practical competitions, making the influence of national competitions increasingly strong and subtly improving students' vocational skills.

7. Skills Competitions Drive the Continuous Development of the Profession

National competitions can significantly promote the development of majors. In the current rapid development of vocational education, the holding of the National Testing Skills Competition can largely reflect the basic situation of professional talent cultivation today. Through competition and industry exchanges after the competition, industry personnel have paid sufficient attention to the latest developments, modern methods and strategies in the industry, and summarized the potential problems faced by the profession in the exchange. This has enabled industry personnel to fully consider new paths for development, based on skill competitions, effectively innovate and reform the profession, make the construction of teaching staff more professional, improve the teaching level of colleges and universities, enhance the quality of professional talents, and thus promote the continuous development of the entire profession.

In summary, with the continuous development of education, contemporary vocational education places increasing emphasis on students' practical skills, comprehensive qualities, and innovative abilities. Professional competitions have greatly promoted the innovation of vocational college teaching, especially in practical teaching. The establishment of the National Inspection Skills Competition has also made it an important indicator for the development of vocational education. Through the participation of professional talents in the national skills competition, both teachers and students have been inspired to have a passion for professional learning, and have a clear understanding of their professional goals. They have effectively standardized the operation of professional experiments in colleges and universities, enhanced the professional confidence of students and teachers, and promoted vocational colleges to cultivate more talents with strong psychological qualities and practical skills.

References

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