

Cultivation of practical ability of application type undergraduate machinery

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Abstract: With the continuous improvement of science and technology, the current demand for practical talents in the market is getting bigger and bigger. Many enterprises are increasingly demanding high quality mechanical processing graduates. At present, the goal of cultivation of practical ability of Chinese application undergraduate machinery processing professionals is to cultivate professional talents that serve the first line of enterprises and skills. Therefore, it is particularly important to improve students' practical ability. In this paper, the current actual teaching status will start according to the importance of mechanical processing professional and the importance of practical ability training and the reform of the curriculum system. Through university-enterprise cooperation to increase the training base and other aspects of the following research.

Keywords: Applicable undergraduate; Machinery; Practical ability; Cultivate.

1. CURRENT SITUATION OF MECHANICAL MACHINING SPECIALTY TRAINING FOR APPLIED UNDERGRADUATE

The mechanical processing major has higher requirements for operation, and the talents who study this major have higher requirements for practical ability. Students should not only learn solid theoretical knowledge, but also master certain practical skills. Therefore, in the course arrangement, the machining course contains a large number of practical courses. The main objective of these courses is to develop students' practical skills. Due to the actual operational ability, most schools pay attention to practical teaching in mechanical processing teaching, and pay attention to theoretical teaching. Nowadays, there is a great demand for mechanical processing major at home and abroad, and many schools have also opened this course. As the number of students increased year by year, but the actual operation of the school equipment did not increase correspondingly, teachers are obviously insufficient. They can't provide students with the conditions of actual operation, so that students' practicality does not meet satisfactory results. At present, most enterprises and employers only care about the economic benefits of their own units, and do not take the training of mechanical processing professionals as one of the strategic system of company development. In fact, the fundamental development of enterprises is to master the core technology, which is in the hands of professional technical personnel. Enterprises should train mechanical processing professionals suitable for their development goals as one of the contents of their strategic deployment, and only by mastering the core technology can they occupy an invincible position in the market. At present, many students are just passively indoctrinated with professional knowledge and are confused about the future. Because students rarely have the opportunity to participate in specific practical operations, students' practical

skills can not be concretely improved. The setting of the course content is also outdated and aging, and the advanced technology of mechanical processing is not timely introduced into the teaching content by teachers. As a result, the technology that students learn has been eliminated by the society, and students do not know the innovation skills of high-tech means. As a result, it is difficult to adapt to the real working environment of the enterprise in the future, and they have to start learning again. During the development of applications undergraduate machinery, there is a need to invest a large number of advanced equipment and machine tools to improve students' practical conditions. At present, the training and teaching hardware facilities of mechanical processing specialty in the school are not perfect, some old machinery can not operate normally, and there are serious security risks. Theoretical teaching is not consistent with practical operation, and the concept of theoretical courses is old and cannot be updated timely according to the progress of The Times and technology, so that students' learning skills cannot meet the needs of enterprises.

2. THE MECHANICAL PROCESSING MAJOR OF APPLIED UNDERGRADUATE PAYS ATTENTION TO THE IMPORTANCE OF PRACTICAL ABILITY TRAINING

Application-oriented undergraduate mechanical machining students need to improve practical ability and practical operation ability, schools should focus on cultivating students' ability to solve problems in practical application and master professional skills. In the process of learning this major, application-oriented undergraduate students should constantly innovate and combine theory with practice on the basis of mastering the teaching content. In the process of learning this major, application-oriented undergraduate students should constantly innovate and combine theory with practice on the basis of mastering the teaching content. And actively participate in various training opportunities held by the university and enterprise cooperation, strengthen the training of work practice. Practice has proved that the cultivation of practical ability of application-oriented undergraduate specialty is very important. However, the cultivation of practical ability cannot be achieved by classroom knowledge, and students need to practice more comprehensive and multi-channel ways. Schools should pay attention to the training of practical ability of mechanical processing specialty, this can solve the influence of the above factors on teaching quality, improve the practical effect of practical teaching in mechanical machining specialty of applied undergraduate, strengthen the equipment configuration of mechanical processing professional training, construct the curriculum system of systematic science, improve teachers' professional quality and comprehensive skills. According to the survey, the total credit hours and practical credit hours of applied undergraduate mechanical processing major have accounted for 63.48%, on this basis, more practical credit hours should be added.

3. CONSTRUCTION OF PRACTICAL TEACHING SYSTEM FOR APPLIED UNDERGRADUATE MACHINING SPECIALTY

3.1 Strengthen the cultivation of basic knowledge

In order to learn the theory course well and achieve better learning effect, each theory course of mechanical processing major contains a large number of experimental teaching content, the main

purpose is to strengthen students' grasp of basic knowledge through the process of experiment. In the process of conducting professional experiments, through visiting experiments and understanding, let them master their ability to independence their own experiments, so that they can consolidate the theoretical knowledge, and also exercise the ability to operate. In this process, students will learn and deepen the knowledge of reinforcement theory they have learned in the experiment, which can well train their basic skills, master the basic operation methods, train students to be good at thinking, draw experience from the process of experiment, and carry out innovation through the basic theoretical knowledge of practical ability.

3.2 Learning ability and professional skills

The training of practical ability of applied machining specialty needs to cultivate the learning ability of this specialty, on the basis of learning theory teaching, students should be trained to have relevant professional skills. Professional skills are not only to master mechanical processing skills, but also to have their own unique insights into the technical innovation of this major. Applied undergraduate students should be equipped with more advanced professional skills and knowledge, but also to prepare themselves for management and innovative work.

3.3 Strengthen the input of mechanical processing professional training equipment

Machining majors are majors that require a lot of hands-on work. Students need to gain experience through repeated practice and production process. While familiarizing themselves with theoretical knowledge, they also need to absorb relevant techniques and essentials of practical operation of their major. While perfecting machine processing professional training equipment configuration, the school needs to invest more hardware facilities in terms of basic teaching, increase capital investment in machine processing training, and provide advanced technical facilities for students. Secondly, the school can open the practical teaching mode of school-enterprise cooperation and focus on cultivating high-quality professional talents. Let enterprises pay attention to the talent training plan for students, provide more students with professional and targeted internship opportunities, improve students' systematic grasp of mechanical processing technology.

4. THE IMPLEMENTATION STRATEGY OF PRACTICAL ABILITY OF MACHINING SPECIALTY AND SCHOOL-ENTERPRISE COOPERATION

4.1 Reasonable construction of course structure

Through reasonable construction of the course structure, and scientifically develop the plan. According to the learning status of students majoring in mechanical processing of applied undergraduate, according to the actual situation of the market, investigate the needs of the employer and related enterprises, Arrange education programs according to actual needs. And in the teaching method of mechanical processing major, we should highlight the cultivation of students' practical ability, fully consider the difference between applied undergraduate talents and higher vocational teaching students, determine the position and employment direction that can be adapted to in the future, and establish a complete talent training system. In many professional courses, the teaching method combining theory with practice should be adopted. In the link of practice teaching, we should always pay attention to the cultivation of students' practical ability.

4.2 We will strengthen the construction of teaching staff

Excellent teachers can influence students through their words and deeds, and teachers' professional guidance can help students get better development. Therefore, the teaching team of cultivating a high-quality, innovative education concept is imperative to ensure the comprehensive improvement of teaching quality of applicable undergraduate machinery processing professionals. In the process of teaching the teacher team, we must fully consider the professional, age and practical ability of teachers. Improve teachers' professional qualities, teach levels, and a keen sense of smelling for future industries in this major. The mechanical processing specialty of applied undergraduate should strengthen the construction of existing teachers, and actively introduce advanced talents to ensure the perfection of the quality of teachers.

4.3 Establish a sound school and enterprise training base

Establish a perfect school-enterprise training base to ensure that students can combine the theoretical classroom in a seamlessly attachment. Train students to have the idea of innovation, master the basic knowledge of this major and give play to the consciousness of independent innovation. The purpose of practical teaching is to make innovation and improvement on the original basis while skillfully applying the knowledge of this profession. Through the establishment of a sound school-enterprise training base, students can study independently in a familiar environment and repeatedly practice the learning tasks assigned by teachers. In addition, we need to focus on the practicality of the training content. According to the demand and market needs of the times, it has developed related technologies that meet the needs of modern enterprises, and cultivates students to master the relevant operational skills based on actual needs. The content and projects of the training can refer to the projects in high demand of excellent enterprises, so that students can experience the real situation of future work in the self-training.

5. CONCLUSION

In summary, the practical ability of applicable undergraduate machinery processing professionals need to broaden their professional vision with the help of schools. Through the continuous improvement of scientific and effective experiments, students should have the actual operational skills of machining major while having theoretical knowledge. In the process of full practice, we should absorb the actual requirements of modern enterprises for mechanical processing professionals, improve their professional quality, cultivate innovative spirit and improve their comprehensive competitiveness, which is the ultimate goal of the practice of application-oriented undergraduate professional talents.

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