

The Construction Of Practical Teaching Base Of Electronic Information Engineering Specialty With The Goal Of Improving Practical Skills

Wei Jiang

Fundamental Science on Radioactive Geology and Exploration Technology Laboratory, East China
University of Technology, Nanchang, Jiangxi, China

jw186@163.com

Keywords: Practice Base; Innovation; Training

Abstract: The construction of practice base is an important measure to train high-quality practical talents with innovative and practical ability, and plays a vital role in cultivating practical skills and promoting employability of students majoring in electronic information engineering. Therefore, it is necessary to formulate and improve the system of practice base construction and establish an efficient practice base management model. Explore a new cooperation mechanism between schools and enterprises and establish a stable and diversified practice base. Establish a practice base operation mode between schools and enterprises to improve the quality of students practice and employability training. Take the practice base as the development platform to train a number of excellent teachers, so as to provide a platform guarantee for the training of practical and skilled talents in electronic information engineering.

1. Introduction

In order to meet the needs of enterprises, industries and society for talents, we should not only cultivate students' solid professional basic knowledge, but also pay special attention to the cultivation of innovative practical ability and practical skills [1-4]. The realization of these abilities is inseparable from the important link of practical teaching, and the construction of practice base is not only an important place to train students' practical ability and innovative ability, but also a powerful guarantee for the realization of practical effect. Therefore, the construction of a practical teaching base aiming at the cultivation of practical skills and employability is of great significance to the realization of the goal of personnel training in electronic information engineering major. the smooth implementation of this subject will help to improve the understanding of practical teaching, improve the teaching level and the quality of personnel training, train high-level teachers, and promote students' employability.

The construction of practice base is an important measure to train high-quality practical talents with innovative and practical ability, and plays a vital role in cultivating practical skills and promoting employability of students majoring in electronic information engineering. Therefore, this topic will formulate and improve the practice base construction system, and establish an efficient practice base management model. Explore a new cooperation mechanism between schools and enterprises and establish a stable and diversified practice base. Establish a "propulsive" practice base operation mode between schools and enterprises to improve the quality of students' practice and employability training. Take the practice base as the development platform to train a number of excellent "double-qualified" teachers, so as to provide a platform guarantee for the cultivation of practical and skilled talents in electronic information engineering.

2. The contents of the study

To formulate and perfect the construction system of practice base and establish an efficient management mode of practice base. To set up a steering committee for the construction of the professional practice base of electronic information engineering, whose members are composed of

relevant leaders of both schools and enterprises, as well as professional teachers and business backbone of the enterprise, and employ experienced backbone teachers as the person in charge of the operation of the practice base. Take a series of measures to establish a standardized operation system, responsible for students' practice teaching arrangements, curriculum content reform, practice base construction and other work, to ensure the efficient operation and management of the practice base.

Explore the new cooperation mechanism between universities and enterprises and establish a stable and diversified practice base. In the process of building an internship base, it is based on the principle of mutual benefit and two-way benefit. Give full play to the advantages of colleges and universities with strong theoretical level and R&D capabilities, and establish a long-term and stable cooperative relationship between universities and enterprises with relevant enterprises. In terms of teaching, enterprise experts are invited to participate in the revision of talent training programs and the development of internship and training courses; in scientific research, schools and enterprises can jointly apply for projects and jointly develop new products; in terms of technical services, teachers can provide technical services and staff training services for enterprises to achieve a win-win situation through multi-level and omni-directional cooperation.

To establish the operation mode of practice base between schools and enterprises to improve the quality of students' practice and employability. This model adopts the propulsive practice mode of two stages: base practice and post practice. The first stage is mainly base practice, which mainly trains and trains students' professional basic skills and hands-on practical ability; the second stage is post practice, which arranges students to exercise in the corresponding positions and become proficient in post skills, so as to cultivate students' ability to solve practical production problems. Optimize courses and practical training projects, determine the practical skills required by relevant majors by understanding the needs of industries and enterprises for human ability, and carefully select practical projects that meet the requirements after joint argumentation by school and enterprise experts. Integrate relevant courses to make the courses more in line with the needs of the industry.

Take the practice base as the development platform to train a group of excellent double-qualified teachers. The practice base is the big stage of innovation and entrepreneurship, and teachers can fully rely on the platform of the professional practice base to carry out project cooperation, skill training, on-the-job training, entrepreneurial incubation and other work. constantly improve their own practical engineering practice ability and the level of solving practical problems, and build a strong and excellent teaching staff.

3. Keys of the study

The main results are as follows: the construction of practice base must be based on the win-win situation between schools and enterprises, which is one of the keys to the successful implementation of this project. The cooperation between schools and enterprises to carry out long-term and stable off-campus training bases must consider sustainable development and establish a win-win mechanism. In terms of the interests of colleges and universities, through cooperation with enterprises, students and teachers can be improved in different aspects, and at the same time, colleges and universities can achieve greater development; while in terms of enterprise interests, it can be reflected through relevant ways: using school resources to carry out continuing education for enterprise staff and workers to improve the competitiveness of enterprises; to cooperate with colleges and universities to carry out new product development, new technological innovation or equipment transformation, etc. Make use of the trainee students to carry out post production practice to increase the benefit and reduce the cost. On the basis of win-win, each side wants what it needs, and both sides create interests for each other and benefit each other, so as to establish a long-term, stable and high-quality training base.

The establishment of a perfect management system related to the construction of the practice base is one of the keys to the successful implementation of this project. Although we now attach great importance to the cooperation between universities and enterprises in higher education, carry

out the construction of practice bases, and carry out large-scale pilot projects in various places, standard and complete guidelines have not yet been formed. due to the existence of problems such as the differences between students' learning and practice environment, there are many difficulties in the development of practice, so in many cases, students' practice in the practice base only stays on the surface. In order to solve similar problems, both schools and enterprises must formulate a sound management system of the practice base, so that the construction of the practice base can be put into practice, and the effect will be more obvious.

4. Study methods

The implementation plans and methods of the construction of the practical teaching base, first of all, we should standardize the management of the construction of the practical teaching base, secondly, we need to pay attention to the development of the practical teaching base, again we need to increase investment to ensure the construction of the practical teaching base, and finally, we need to actively maintain and develop the relationship with the practical teaching base.

Standardize the management of the construction of practical teaching base. Standardizing the construction of practical teaching base is an important guarantee to give full play to the role of the base. First of all, clarify the division of labour among various departments and strengthen effective management. The construction and operation of the base contains rich contents, such as practice content setting and connection, practice arrangement and guarantee, base contact and communication, practice materials and summary, etc., which involves many relevant departments and needs to strengthen effective management. to form a working mechanism in which relevant departments bear their own responsibilities and coordinate management. Secondly, formulate and improve the rules and regulations, including teacher responsibility system, financial system, operation management system and security system, through these systems to regulate the development of practical activities and constantly improve the operation level of the base. Finally, a special management coordination group is set up to be responsible for it. A "practice teaching guidance group" and a relevant personnel responsibility system can be set up for the management of the practice teaching base, which shall be responsible for formulating practical teaching implementation methods and relevant management systems suitable for the progress of the teaching content and the requirements of the base, deploy and implement the teaching work of the practice link, and strengthen the guidance, inspection and evaluation of the teaching work of the practice base.

Attach importance to the establishment of stable and diversified practice bases between universities and enterprises. In the process of building an internship base, it is based on the principle of "mutual benefit and two-way benefit". Give full play to the advantages of colleges and universities with strong theoretical level and R & D capabilities, and establish a long-term and stable cooperative relationship between universities and enterprises with relevant enterprises. In the aspect of teaching, we should invite enterprise experts to participate in the revision of talent training programs, optimize courses and practical training projects, determine the practical skills required by corresponding majors and integrate relevant courses through the demand for talents of industries and enterprises, and integrate relevant courses. to make the courses more in line with the needs of the industry; in terms of scientific research, we can jointly apply for projects between schools and enterprises, or jointly develop new products. In terms of technical services, teachers can improve technical services and staff training services for enterprises, and achieve a win-win situation through multi-level and omni-directional cooperation. Adopt the practice base practice mode of propulsion. Through the base practice, cultivate and train the students' professional basic skills and hands-on practice ability; through the post practice, arrange the students to the corresponding work posts for training, proficient in post skills, and cultivate students' ability to solve practical production problems.

Increase investment to ensure the construction of practical teaching base. The construction of practical teaching base requires schools to increase the input of people, money and materials, and pay attention to the guarantee of funds and the training of teachers. The funds needed for the

development and maintenance of the base and the development of practical teaching need to be effectively guaranteed by the school to formulate relevant systems. The input of funds for the purchase of materials needed for the development of practical teaching in the base is an important condition to improve the effect of practical teaching. In addition, to ensure and improve the level of practical teaching, it is necessary to establish a scientific and reasonable structure of teachers. Carefully select teachers who have the spirit of dedication, love practical teaching and understand professional management as instructors, increase investment in the formulation of special training expenses, bring teachers' continuing education into the training plan, and pay attention to the training of double-qualified teachers. constantly improve the comprehensive quality of teachers. Combined with the teaching reform, the practical teaching in the base is gradually incorporated into the whole budget of the teaching reform in a planned way, so as to ensure the smooth development of the practical teaching.

Actively maintain and develop the relationship with the practical teaching base. After the establishment of the practical teaching base, the school needs to strengthen the maintenance and development of the relationship between the practical teaching base and the practical teaching base, give full play to the role of the base in teaching and personnel training, and make a good plan for the cooperative development between the school and the base. build an industry-university-research complex when conditions permit. The school strengthens the mutually beneficial cooperation with the base unit through the special department, and carries out as the daily work, establishes the stable and friendly cooperative relationship with the base. After each internship, the leaders, instructors and relevant personnel of the internship unit can be invited to hold a forum to review and summarize the practice teaching, find out the problems existing in the practice and improve it, and put forward constructive suggestions. Constantly promote the improvement of the quality of practical teaching. Regularly hold meetings of the professional practice base construction committee to discuss the issue of personnel training, maintain contact and communication with enterprises, and strive to make the talent training plan satisfactory to both sides. According to the needs of enterprises, set up relevant training and reform projects to create conditions for enterprise employees to recharge and improve their theoretical level, make full use of enterprise technical resources for joint scientific research, transfer scientific research achievements to enterprises, share teaching and scientific research achievements, and so on. Hiring scientific and technological staff with rich practical experience to work as part-time teachers not only strengthens the relationship between schools and enterprises, but also strengthens the contact with part-time teachers, which is beneficial to their communication during students' internship.

Conclusion

This paper formulates and improves the construction system of practice base and establishes an efficient management mode of practice base. Explore a new cooperation mechanism between schools and enterprises and establish a stable and diversified practice base. In order to improve the quality of students' practice and employability. Take the practice base as the development platform to train a number of excellent "double-qualified" teachers, so as to provide a platform guarantee for the training of practical and skilled talents in electronic information engineering.

Acknowledgements

Humanities and social sciences projects of colleges and universities in Jiangxi Province(JY19103) supported this work.

References

[1] Niu Zhanwen, Xu Yanshen, and Lin yue. (1999)Inventive Scientific Methodology-TRIZ. China Mechanical Engineering, 01,92- 97.

- [2] Ma Huaiyu, Meng Mingchen. (2001)Model of the concepttual design process based on TRIZ /QFD /FA. J Tsinghua (Sci&Tech), 11,56- 59.
- [3] Ma Feihong. (2012) University-Industry-Government Cooperative Innovation System Modeling and Simulation Method Research. Computer Simulation,9,1-5.
- [4] Dang Xinghua, Zheng Dengpan. (2009)The Self-organization Evolution Model of Modular Technology Innovation Network. R&D management,4, 54-59.