

# Reform and Practice of the Educational Mode of Work-Study Combination Based on AHK

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**Abstract:** With the transformation of China's manufacturing industry from "Made in China" to "Made with Wisdom", the market has put forward more and higher requirements on the quantity and quality of labor force. Therefore, vocational education should continuously change the mode of talent training and optimize the structure of talent training, so as to take up the new mission given by building a strong manufacturing country. In order to better provide strong talent support for the high-quality development of regional economy, the construction team of intelligent manufacturing professional group of the school believes that talent training should adhere to the work-integrated learning, knowledge and action. To this end, we have conducted research and practice, and built a "Talent Training Model based on AHK Engineering Integration".

**Keywords:** Work-integrated learning; Personnel training mode; Personnel cultivating program; Professional curriculum system

## 1. Introduction

At present, China's economy is in the process of transformation from high-speed growth to high-quality development. At the same time, with the industrial upgrading, China's manufacturing industry will gradually shift from "Made in China" to "smart made in China". "Intelligent manufacturing" will become the inevitable trend of future manufacturing industry development. The upgrading of industrial structure and the development of industrial cluster will attract more enterprises to join the industrial group, which puts forward more and higher requirements for the quantity and quality of labor force. Vocational education plays a key role in cultivating skilled personnel in urgent need of enterprises. Therefore, vocational education should constantly reform the mode of talent training and optimize the structure of talent training, so as to undertake the new mission of building a powerful manufacturing country.

## 2. Brief introduction of "talent training mode based on AHK work study combination"

In order to better provide strong talent support for the high-quality development of regional economy, talent training should adhere to the combination of work and learning, knowledge and action. Talent training puts forward the requirements of paying equal attention to ability and qualification, connecting specialty setting with industry demand, connecting curriculum content with professional standards, and connecting teaching process with production process. The construction team of intelligent manufacturing professional group conducted research and practice in view of the above requirements, and constructed the "talent training mode based on AHK combination of work and study". "AHK Based combination of work and Study talent Training Mode" is a kind of localization of "German vocational Education standard", Implement "Double element three ground" training, build "sharing linkage, first-class facilities, highlighting skills, service industry" new "dual system" technical skills training mode. To jointly create the characteristic vocational education and training mode of "school-enterprise integration".

## 3. Specific implementation plan

### 3.1 Establish a talent training program combining work with study

The main line is the cultivation of professional post ability and basic quality required by intelligent manufacturing professionals, According to the extensive and in-depth social research, combined with the actual situation of our school, reform the professional training program, school-enterprise in-depth cooperation to build a new professional talent training model, Take "combination of work and study" as the core of talent training mode. According to the demand of high-end equipment manufacturing industry and enterprises for talents, determine the talent training objectives and training specifications; According to the high-end equipment manufacturing process, the construction of the curriculum system; The aim of the course is to cultivate vocational ability; "Manufacturing project" as the carrier of professional personnel training; Work tasks as the main line of curriculum construction; Reform the teaching mode, teaching conditions and teaching management methods according to the requirements of the curriculum system. On the basis of talent demand analysis, determine the talent training target of intelligent manufacturing professional group. According to the path of "analyzing work task → extracting typical work task → concluding action field → transforming learning field", Construct specialized curriculum system.<sup>[1]</sup> According to the curriculum system for teaching design, educational activities design, clear teaching conditions,

and finally form a talent training program.

### **3.2 School-enterprise cooperation to develop curriculum**

Breaking the traditional curriculum boundaries and constraints, oriented to the cultivation of job competence, emphasizing the theory enough for the degree of use, Highlight the principle of training high-quality skilled personnel as the core, Establish curriculum standards with the industry to highlight vocational ability training, standardize the basic requirements of teaching, Reform teaching methods and means, integrate teaching as one, Strengthen students' vocational ability and skill training. According to the project orientation, the work task is jointly developed by the school and enterprise, and the teaching curriculum system is reconstructed.<sup>[2]</sup> Through the deconstruction and reconstruction of knowledge and ability structure, the transformation from the field of action to the field of learning is realized. The professional teaching steering committee gathers industry and enterprise technical experts, technical experts in the actual production line, professional backbone teachers and teaching experts of the school, Integrate teaching resources according to professional standards of high-end equipment manufacturing positions; According to the systematic task of the work and the formation of students' professional ability, In accordance with the easy to difficult, step by step principle, At the same time, the implementability of teaching is fully considered, action-oriented, and the teaching content is organized according to the actual work process. The courses of intelligent manufacturing professional group learning field are developed and the professional curriculum system is constructed.

### **3.3 Establish a three-dimensional talent training evaluation system**

To promote school-enterprise cooperation and cooperation, strengthen the construction of experimental and practical training bases, the construction of professional and part-time teaching staff and the reform of student assessment and evaluation methods. The establishment of AHK standards, school-enterprise joint participation, school social three-dimensional evaluation of high-skilled personnel training and evaluation system. Ensure a high degree of match between the quality of talent training and the requirements of job positions.

## **4. Implementation of safeguard measures**

To further deepen the reform of school-enterprise cooperation mode under the guidance of the School-enterprise Cooperation Development Council and the School-enterprise Cooperation Office of the College. Give full play to the role of "productive training bases" in personnel training; Improve the order cultivation mode of "Shan Gang Class" and "Ge Erban", Cooperation with Shansteel Group, Xinhua Medical Ltd. and Rheinoast Intelligent Technology Co. Deepen the "Double element three ground" training, build a new "dual system" technical skills training mode of "sharing linkage, highlighting skills, service industry". Attach great importance to school-enterprise interaction, Cooperate with the college to improve school-enterprise cooperation coordination mechanism, interest driven mechanism, incentive mechanism, constraint mechanism, emotional mechanism, teacher participation guiding mechanism, etc. Further implement the relevant provisions such as "Management Measures for On-post Practice", "Construction and Management Measures for Off-campus Practice and Training Bases", and "Management Measures for Order Cultivation".<sup>[3]</sup>

## **5. Conclusions**

This paper analyzes the problems existing in the training mode of intelligent manufacturing professional group person-time, Put forward the innovative exploration scheme of the talent mode of the professional group, Starting from the four aspects of building a talent training program that combines engineering, cooperation between schools and enterprises to jointly develop curriculum, building a three-dimensional talent training evaluation system, and implementing guarantee measures, So as to improve the efficiency and practicability of personnel training.

## **References:**

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