1.5 媒体宣传报道和国际会议交流(论文 9 篇)

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司频共振

阳信审计局"五零服务" 打造优质服务机关

视而道

升旗仪式上普及消防安全知识



演职建工学院虽化学生实习监控

滨职建工学院开展 志愿服务活动



共热问题

校园里种大蒜 培养劳动精神

2 設新道

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海州日都高州縣和衛田區 區域 全差 强国 为年二年、四位 温等计划 电对键 由计划 电子接 不完成,创在企业,不利率的地 开展、引起的,和工事计划率 开展、创起的,是以工事计划来。 不是以此一个企业,不利率的地 不是以此一个企业,并不是一个企业。

滨职建工学院与多家企业 达成校企合作意向

演與日报/傳傳兩漢學博/通 指數 美埃本 模畫 班坦,於州即 理學院經第工程学院也已安分 期间由5 年安全與實大有與 第一次,總不可 100年, 100年 100年

滨职建工学院举行 "礼敬国旗"升旗仪式

第州日报/淮州阿湾州混门通 玩员 天仓本 报道》近日,浓州副 业学院提供工能学院效应支举 行了"不忘初心 未敢随缘"升做 自身的经过文理协议的



用高质

滨职建工学院开展 "我要讲党课"活动

教育。微新面

廣州日和廣州開東相談通 開展 美华 權適 为 實際報查 李生常支配 中记分別開始就行 李宗政会父子平得 张某神空 理"得初的通知等要要求,近 一名合格共产党與李主服为广 安安支张公开境",我使用党

滨职建工学院社会实践 宣传活动进沾化

深州日徽宗州南条州田(議 思異 《4年 展祖》日日、如州田 世界 《4年 展祖》日日、如州田 世界的《大型歌年》,才知常的 中国《中国》中国《中国《中国》中国《中国》中国《中国》中国《中国《中国》中国《中国》中国《中国》中国《中国》中国《中国》中国《中国

体验农事 感受艰辛



近日,昨年市第一实验小学 第,并进行了"富康大王特选"等 2018年《祖师司学是董师中帝 治验,从中使得了原接的不易。 李号基场中的任庆选师信息地。 李号基分地、平英宣集场地。 经附后提供 國際原 經濟學、同学行了等了要高价。 杜明克子比特 疆數 住宅住,体验了宣募收集的。



市农业农村

が登録**の時化、政治生 古中郡軍を干部**一代の大学は「東北京本・「東京ない人」がある。
一代の大学は「東北京本・「東京ない人」がある。
一代の大学は「東北京本・「東京ない人」
「東京ない」



滨职建工学院开展 "我要讲党课"活动

集州日極廣州開業州區通 昆鼎 美华 相違引为實份商家 李生党支部书记分时開始政府 李生党支部书记分时開始政府 李生党支部书记分时開始政府 不忘日心。李庄随寺、如何迎 星而前的通町部署要求,近 三、京师形址学院建筑工师学群 及安全或每年时候了"我要许受

滨职建工学院社会实践 宣传活动进沾化

体验农事 感受艰辛



近日, 郑平市第一岗於小学 约1级在组织同学交进杯平均 等他在五种风火及种低基地。 少月在如此,尽来运动动动。 场中、同年17年7岁案的种 也也就, 保在、企業最近成功。

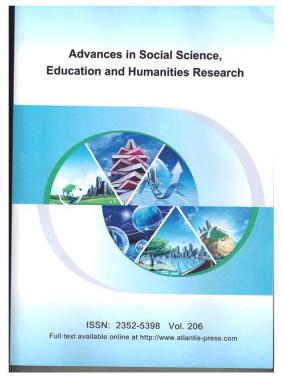


市派高新区民营 用高

市农业农村

党建网格化,政治生活中尊重老干部

图 1-25 滨州日报对成果进行宣传和报道





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Teaching Reform and Practice Based on the Integration of Necessary Abili Jobs, Skill Contest and Professional Qualification Certificate into Cours Taking Architectural Engineering Surveying as an Example

Miaomiao CUI ^{1, a},Na LI^{2, b},Xia ZHAO^{3,c},Xiaolin ZHANG^{4,d},Xiaowen BIAN⁵,

123.85 Architectural Engineering Department, Binzhou Polytechnic, Binzhou 256600,Chim*email: yulinglong808203@163.com, *email: 411245815 @qq.com, *email: 443183538@qq.com
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Keywords: Integration of Necessary Abilities of Jobs, Skill Contest and Professional Qualification in Courses; Teaching Reform; Architectural Engineering Surveying Orientation

Abstract: The integration of necessary abilities of jobs, skill contest and professional questions are also as a substance of the professional question and to train highly skilled and application-oriented professionals. Taking the design and teaching of architectural engineering surveying as an example, job competence of the professional qualification requirements are integrated into classroom such as the professional qualification requirements are integrated into classroom which reference of the professional qualification and focuses on the training of students possible and development abilities which reference where the professional qualification and focuses on the training of students possible and development abilities and professional qualification and focuses on the training of students particularly and the professional quality and professional quality and the teaching method of project task driven and process assessment was used. The good effect of teaching reform has been swith fully improving the quality of personnel training.

Introduction

Introduction

The integration of necessary abilities of jobs, skill contest and professional questificate into courses is a new trend of course construction and education reformed developing tendency of higher vocational education and an advanced teaching mode for cashing skill and high quality talents. Urban-construction joint council; construction committee for construction engineering technique major and construction implementation generates and professional curriculum system built by the school and enterprises objecther are set up to further with industry, enterprise and professional skill identification organization. The keaper of the control of the con

Course Design of Architectural Engineering Surveying Based on the Integration

Architectural engineering surveying which plays a major supporting role in the two vocational skills and qualities of students is a core-competence course of architectural engineering surveying a good foundation for the students to obtain the per qualification certificate of the second construction engineer and to engage in the semployment position, which plays an important role in the curriculum system of the employment position, which plays an important role in the curriculum system of the professional ability requirements of construction crew, quality worker and surveyor are det though the professional research of School-enterprise joint council in construction crew surveying and mapping companies. By instructing students to participate in skill contents.

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levels, the teachers deeply analyze the national vocational skill standards, technical specifications and the enterprise post abilities required of students. Furthermore, on the basis of the analysis of the requirements of professional knowledge in combination with the examination outline, the specific requirements of job, contest, certificate are translated into the knowledge and skill targets of course learning. The paper summarizes the corresponding relation of job, skill contest, vocational qualification certificate and teaching targets of architectural engineering surveying as shown in Table 1 [3] [4].

Table 1 the corresponding relation of job, contest, certificate and course target Job Skill Contest Qualification Course Target Qualification

construction crew ; shandong university students' science-echnology culture and art worker; festival(surveying skill contest), 2. "Zhengy'uan Geomatics Cup" Shandong vocational college students' assectively shandong vocational college skill contest (surveying skill contest), 2. "Shandong vocational college skill contest (surveying skill contest), 2. "Shandong vocational college skill contest (surveying skill contest), 2. "Shandong vocational college skill contest (surveying and mapping), 5. Birazbou vocational college skill contest (surveying and mapping), 5. Birazbou vocational college skill contest (surveying and mapping), 5. Birazbou vocational college skill contest (surveying) and contest(engineering surveying) and contest(engineering surveying) are contested in the requirement of vocational qualification examination, 6 teaching projects and 25 tasks relying on the course teaching platform have been set up for architectural engineering surveying the light of the actual work flow (survey and design phase-construction phase-operation and management stage). The knowledge and skills which should be massered by students though the course learning are given on the basis of these typical work tasks' analysis. For example, the content design of the first and second teaching items is shown in Table 2. Professional Qualification Certificate construction crew ;quality worker;



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Table 2 the course design based on the integration of necessary abilities of jobs, skill contest and professional qualification certificate

Construction	Teaching	Work Task	Learning Target		
Process	Project		Knowledge Target	Capability Target	
		1.basic knowledge of surveying	, basic work, procedures and principles of surveying;2.measuring coordinate system and method	master the datum, basis work, basic procedure	
	I.basic knowledge	2 .overview of architectural engineering surveying		and principle of surveying; master the methods of determining the position of ground	
	d see of surveying instruments 2. 2. surveying instrument 6. measuring-distance instrument 7. do in the surveying instrument and its application 7. dotal station instrument and its application 7. dotal station instrument and its supplication 7. dotal station instrument and its supp		I, the structure and operational steps of the level, the measuring the cellulation method of internal work; 2 the structure and principle of theodolite; the theoretical knowledge of angle measurement; 3 operation methods of total station and GPS	Luse the level quickly and accurately; 2-carry out closed and coincidental leveling line survey; 3, set up the doolite quickly and accurately/4-proficien in horizontal angle measurement of the observation method in two directions; 5, set up total station and measure angle, distance measurement of the observation method in the direction of the distance of the direction of the di	
survey and design phase		4. level and its application			
		and its			
		7.total station instrument and its application		and coordinate correct and quickly;6. use GPS for RTK measurement	
		8.GPS			

8.GPS

Based on the learning targets of the curriculum design, the professional teaching standar higher vocational college, the engineering survey specification, the outline of construction and the professional skill appraisal requirement of surveying and mapping geogration formation industry are incorporated in the teaching of architectural engineering survey Teaching, we actively develop digital teaching resources and adopt informational teaching and And the whole process reflects the mutual integration of necessary abilities of jobs, skill can and professional qualification certificate into courses.

Teaching Practice of Architectural Engineering Surveying Based on the Integration

The subtask Horizontal Angle Measurement of Two Directions of the typical work theodolite and its application is given as an example to introduce the actual teaching processors. "Horizontal Angle Measurement of Two Directions" is the work task that is according to the requirements of the job ability of the construction crew, the quality worker

surveyor, which is one of the competition events of surveying skill contest at all levels and the necessary examination content of construction crew and three-level engineering surveyor. Therefore, the job ability analysis examination requirements and technical requirements flow in Table 3) for the horizontal angle measurement of three-level traverse surveying in the engineering surveying norm are integrated in the teaching.

Table 3 basic technical requirements for traverse surveying

Table 3 basic technical requirements for traverse surveying

Level		Difference of Two Half Obsevation Sets (")	Difference of Three Readings for Distance Measurement (mm)	Error of Closure in Azimuth(")	Relative Closure of Traverse Surveying
three	1	24	5	24√n	≤1 / 5000

Note: n is the number of stations in Table 3.

Note: n is the number of stations in Table 3.

Based on the integration,knowledge,ability and quality target of "Horizontal Angle Measurement of Two Directions" are given as shown in Fig. 1. Teaching priorities include the operation of angle measuring instrument (total station) and the measuring step of horizontal angle. The difficulties are the method of filling out the record form and the evaluation of measurement's accuracy. The core is to measure the horizontal angle safely and normatively.

Integration of nece ecessary abilities of jobs, skill contest and professional qualification certificate into courses

Knowledge Target the method of horizontal angle measurement: the method and steps of "Horizontal Angle Measurement of Two Directions"; the method of filling out the record form and the evaluation	Ability Target carry on horizontal angle measurement expertly: fill out the record form and carry on the evaluation of measurement's accuracy	Quality Target cultivate the quality of team cooperation and rigorous work;establish the occupational emotion of "safety first and prevention first"
---	---	--

Fig.1 teaching targets of "Horizontal Angle Measurement of Two Directions"

The teaching process is as follows:

1. Creating the work situation in combination with the curriculum teaching platform.

The axes of the building has been set out at the construction site of no.2 teaching building. Axes location needs to be checked which includes two checking tasks; angle check and distance check. When checking the angle, we need to check the horizontal angle between the two adjacent

2. Issuing the work task.

According to technical requirements for the horizontal angle measurement of three-level traverse surveying, the horizontal angle between the two adjacent axes of the building is measured and checked with 2" total station.

For example, take O as the occupied station and A,B as the target points, measure the horizontal.

angle β (α AoB) between the building axis OA and OB by the 'Horizontal Angle Measurement of Two Directions ", fill out the record form earnestly and give the check result on the precision standard.

3. Tast-driven, explaining priorities and difficulties, training exercises, examination and evaluation.

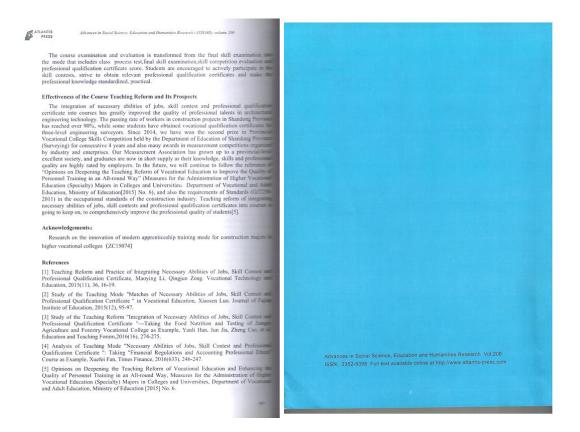
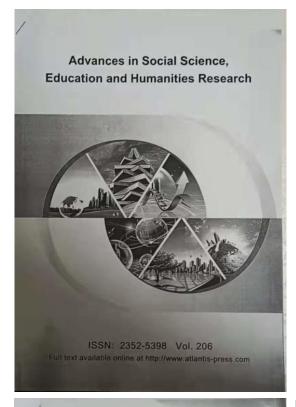


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arch on the Development and Application of Three-dimensional Teaching urces for the Professional Core Curriculum of Civil Engineering Specialty

Xiuyan Zhang¹, Huiqin Yang¹, Zhaojun Ren¹, Song Zhou¹, Xine Zhang²

1.Binzhou Polytechnic, Binzhou 256603, China 317698397@qq.com
 2.Transportation Administration of Gaotang, Giotang252800, Shandong Province, China 709064576@qq.com

ords: Internet; Virtual technology, Entity engineering, Three-dimensional; Teaching

betract: For civil engineering specialty, this article expounds a kind of resource development inking that is based on the combination of Internet and virtual technology. And the development all application of professional core curriculum technology resources are practiced. In the process of search, we developed curriculum resources using virtual technology and built a Large-veale outline. For occurre platform. The teaching mode of "virtuality and ratily combination, collus and con-ciled the terming mode of "theory with practice integration, in class and entitude" were applied. And practiced Technological medium of the practiced technological medium of the practiced and the practiced through the practiced through and evolutions.

Introduction

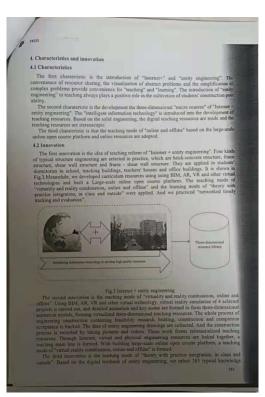
The following is indicated in the notice of the ministry of education on the development plan for beation, informationization (2011-2020): it is of great significance to improve the quality of beation, promote education fineness, and build a learning society and the human resourced power in the property of the property

The teaching reform idea of "Internet + entity engineering" is adopted.

The project of building entity engineering is developed on the Internet. We pay attention to the armitry of professional traching. Four kinds of typical structure engineering are selected in

High-rise housing in Harty





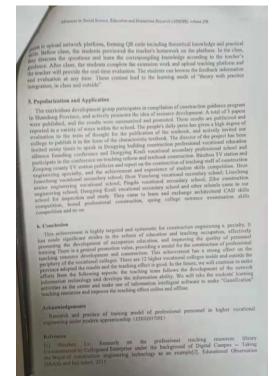
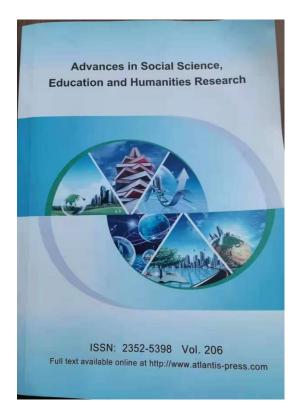




图 1-27《土建类专业核心课程立体化教学资源开发与应用研究》,2018.04,张秀 燕、杨会芹、任昭君、周松、李玉群,《Advances in Social Science,Education and Humanities Research》(ISSN:2352-5398)



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Huiqin Yang, Xiuyan Zhang, Jinfang Sun, Lixin Xu, Chengjie Luan Binzhou Polytechnic, Binzhou 256603, China 317698397@spq.com

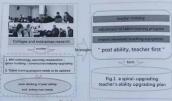
Abstract: With the rapid development of information technology, the degree of informatization in the construction industry has also been greatly improved. Particularly, the development of BIM technology and assembly construction technology as a well as the development of green building leads to the upgrading of the construction industry. This requires teachers to master the information products of the new rat to be qualified for the teaching work. Based on the principle of "post ability teacher first." this paper puts forward a spiral-upgrading teacher's ability upgrading plan to deal with the transformation and upgrading of construction industry. Teacher's ability is provided through teacher training, enterprise training and building network learning platform.

in March 2016, the "two sensions" and the Fourth Sension of the Fuelth National Popule's Compress were beld. The meeting adopted the Third Frequency of the Fourth Sension of the Fuelth National Popule's Compress were beld. The meeting adopted the Talb Frequency flant face economic and social Sensional Popule's Compress were beld. The meeting adopted the Talb Frequency flant face economic and social based on enhancing morality and respecting teacher education. We should carry out professional Isayout and industrial needs decking, curriculum content and professional standards decking, teaching process docking with production process, graduation certificate and vocational qualification certificate docking, vocational education and lifelong learning docker.

The establishment of BIM building information model is a revolution in the field of architecture and it will become a powerful tool for project management. The macro free fine the control of the construction industry of the construction industry of the construction industry. On the construction industry, of the construction industry, of the construction industry. On the construction industry, of the construction industry in the case of the construction industry. The case of the construction industry is a caused the upgrading of the construction industry to retarbellings will account for more than 20% of the new buildings, build by 20.5, prefabricated buildings will account for more than 20% of the new buildings, and by 20.5, prefabricated buildings will account for more than 20% of the new buildings, and by 20.5, prefabricated buildings will account for more than 20% of the new buildings from the construction industry and brought new knowledge and skills and requires teachers to great pass investigated the mastery of new knowledge and skills and requires teachers to great the information products in need to be construction industry in the new knowledge and skills and requires teachers to great pass investigated the mastery of new knowledge and skills and requir

It is very important to carry out the national and provincial document spirit, which is related to the development of vocational education and the development of teachers. The demand for teaching is taken as a guide. The improvement of the quality of teachers' double quality, the training of all

tracher and the construction and sharing of excellent courses in civil engineering are used as mons. The construction of the excellent e



According to the requirements of the upgrading of construction industry, we have investigated the talent training programs, practical training conditions and teachers' knowledge of new knowledge and new skills in vocational schools anationwide. We have actively organized the Shandong Province engineering cost specialty teaching guidance program seminar. We have also participated in other professional teaching program seminars in Shandong Province, such as construction engineering, engineering survey, engineering supervision, etc. It summarizes and analyzes the teaching problems that need to be solved in the civil engineering majors in vocational colleges and propostes solutions to the problems.

2.1 Mainly solved teaching problems

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2. Teaching problems and methods to solve

2.1.1 The direction of teachers' promotion is not clear

Under the new demand for the upgrading of the construction industry, the professional teachers of civil engineering are not clear in the direction of further study, which leads to the poor decking of

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2.1.2

2.1.3

2.2 2.2

2.2

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the students' post ability and the needs of the enterprises. Teachers urgently need to master new geowledge and new skills to adapt to the transformation and urgrading of the construction industry.

2.1.2 The self-improvement effect of teachers is not obvious

The various promotion methods adopted by the teachers themselves are not well-targeted, and the promotion effect is not obvious. The new knowledge and new skills brought by the upgrading of the construction industry cannot be grasped.

2.1.3 Teachers' lack of informatization teaching ability

51.3 Teamers—size or informatization teaching shurp.
Under the new demand for the supprading of the construction industry, informatization technology has become an unavoidable teaching tool. However, if teachers still stay in traditional eaching methods and methods, they card slapt to the reclaim tembers of the stay of the reclaiming the stay of the reclaiming the stay of the reclaiming the stay of the stay of

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2.2.1 Formulate a " spiral-upgrading" teacher's ability improvement plan

Excepting page a spiral-apgrading? teacher's ability improvement plan Keeping pase with the upgrading of the construction industry, aiming at the impact of new knowledge and new skills brought about by each industrial upgrading, the objectives, methods, contents and evaluations of teacher training are formulated to form a "spiral-upgrading" teacher ability improvement program. It effectively solves the problem arising from the lack of teachers knowledge and the lack of information teaching ability caused by the upgrading of the construction industry in the background of vocational education.

2.2.2 Schools and enterprises jointly formulate talent training progr

On the basis of the university-enterprise cooperation, the research of professional teache competence in vocational colleges is carried out. The talent training program adapted to upgrading of the construction industry was formulated. We revise the talent training program least once a year and integrate the upgrade content of the construction industry into the neurodated talent training program. The curriculum standards and teacher's teaching content have be updated to ensure that the students' content is in line with the new standards of the industry.

2.2.3 Teachers go to enterprises to study and exercise

Excellent teachers should be trained in enterprises to keep pace with the upgrading of construction industry. We should get first-line information, knowledge and skills in the industry so as to keep pace with the times, and truly achieve "new knowledge and skills, teacher first".

2.2.4 Teacher training

In order to allow teachers to acquire new knowledge and new skills, professional teachers should be organized to receive provincial or national teacher training in BIM technology, assembly construction and green building to ensure the advancement of teachers' ability.

2.2.5 Build the industry upgrading platform for the construction industry through the

In order to facilitate teachers' timely understanding of industry upgrading information, senior industrial personnel and outstanding backbone teachers take the lead in building "industrial upgrading network platform for construction industry", which can provide updated information, feetures, video teaching in time. The platform is open and constantly updated. With the expansion of new theories and skills of the construction industry, the learners will learn "fresh nutrition" in a

timely manner. Through this platform, learners can get to know the talent training objectives using capability requirements of the industry and professional positions timely. They can also learn stems the development of industry companies and can understant the development and application of age.

ossigns, new processes, new materials and new products.

2.2.6. Capture new industry trends through "reaching and scientific research projects".

Teaching and scientific research projects are carried out, under the informatization background of BIM technology, assembly construction and green building. For the purpose of meeting the needs of the upgrading of the construction industry, the new trends of industry development are explicitly of the prograding of the construction industry, the new trends of industry development are explicitly of the prograding of the construction industry, the new trends of industry development are explicitly of the prograding of the construction of the prograding of th

J. Achievements and effectiveness

Under the new domand of building industry upgrading such as BIM technology, assembly construction and green intelligent building, the post ability of trained talents in traditional talent training scheme is reason as ministed in 2010 to form a spiral-upgrading plan and put it into practice.

The contents of the achievements are as follows: []. It has completed the spiral-upgrading plan and put it into practice.

The contents of the achievements are as follows: []. It has completed the spiral-upgrading plan in the civil engineering of higher vocational colleges in Chair Investigation report of teacher's ability prometion and the related data analysis work are compared to the professional teaching guidance program and participated the completion of in other professional resching guidance program development work, such as the construction engineering technology and construction project management. (] Whe have developed and implemented the provincial summer teacher training for engineering cost in Shandong Province many times. (] We have catabilished high quality resource sharing courses based on information technology such as BIM. (§) in order to adapt to the new needs of the construction industry upgrading, the teaching and scientific research projects which under the background of information BIM technology, assembly construction and green building, have been carried out.

The results are embodied in the following sapects: (§) Students's skills competition has improved. (§) The teachers' post ability is well connected with the needs of the enterprises; (§) We have built areaching ability inproves; affected in school provincial scaled in the projects in the research group published 5 pieces of paper, one of which was included in El. Students works in skill competitions. We have completed two provincial develop curriculum resources has been improved. (§) The teachers' post ability is well connected with the needs of the enterprises; (§) We have built a was included in El. Student

4. Summary

4. Summary
With the rapid development of information technology, the degree of informatization in the construction industry has also been greatly improved. Civil engineering teachers must bravely face the requirements of new developments, closely follow the pace of BIM technology, assembly Teachers must renew their knowledge, enhance practical operation skills, keep pace with technological upgrading, achieve match between vocational education and industrial development and improve teachers' ability. At the same time, teachers should impart the forefront of new land improve teachers' ability. At the same time, teachers should impart the forefront of new land improve teachers' ability.

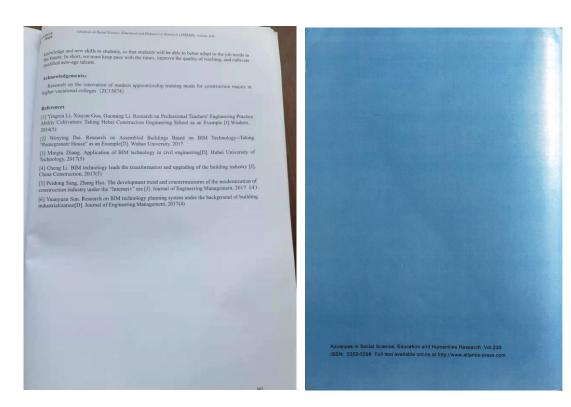


图 1-28《BIM 环境下土建类专业教师信息化教学能力提升对策研究》,2018.04,杨会芹、张秀燕、孙金芳、许立新、栾成洁,《 Advances in Social Science,Education and Humanities Research》(ISSN:2352-5398)





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Research on Development of Integrated Digital Teaching Platform in Civil Engineering in Higher Vocational Colleges

Xiaolin Zhang, Wei Liu, Yongping Ding, Fenghua Xia, Zhandong Wu Binzhou Polytechnic, Binzhou, China email:276547610@qq.com

Keywords: Internet, BIM, Civil Engineering, Integration, Teaching platform

Abstract: In the teaching practice of civil engineering, the Binzhou Polytechnic adheres to the principle of "deriving from school, and serving for the school", it has exploited teaching resources by using BIM technology all at once, built a "34" teaching system consisted of "three-stage teaching" and "three-level teaching platform" taking physical buildings on campus as a carrier, shared teaching resources by means of mobile Internet technology to make the teaching reform of civil engineering in higher vocational colleges.

1. Research background

I. Research background

Building Information Modeling (BIM), is a three-dimensional architecture model based on all information data in the constructional engineering project to stimulate all real information of the architecture virtually by digital information. In August 2016, the Ministry of Housing and Uthan-Rural Development of China issued the Outline or informatization development of construction industry 2016-2020, proposed that it is necessary to promote the popularization of BMI application, and advance the "Internet Plass" cooperative working model. And currently, the "Internet Plass" cooperative working model. And currently, the "Internet Plass" only play to the BIM modeling curriculums, and BIM games and certification tests are held regularly each year in the province dominated by modeling. In the construction of IT teaching platform provided by professional 3D stimulation development companies also has some defects, for example, teachers cannot upgrade or maintain the resources in the model independently.

BIM technology boasts imitiativeness, visualization, which can be integrated with IT teaching balling of schools. The "Internet+BIM" technology can not only upgrade the teaching resources, but transform the teaching management method as well as the assessment criterion of students.

2.1 Deriving from school and serving for school

2.1 Deriving from school and serving for school

The author has selected three typical buildings on campus, and constructed a comprehensive integrated digital teaching platform modeling with Revit of DIM software and working drawing, integrated digital teaching platform modeling with Revit of DIM software and working drawing, integration of teaching resources is conductive to classroom teaching and the self-elaming after class, metagration of teaching resources is consuperated and their companies and their companies and their companies. The process, students can enter the buildings, combine physical buildings with 2D drawings and 1n between the deep by a secsioning teaching resources via computers and thate companies. The integrated digital teaching platform not only see of IBM technology. Students, thus, can also that the supplementary of IBM technology. Students, thus, can be apprehensively the supplementary of IBM technology. Students, thus, can be apprehensively the supplementary of IBM technology. Students, thus, can be apprehensively the supplementary of IBM technology. Students, thus, can be apprehensively the supplementary of IBM technology. Students, thus, can be apprehensively the supplementary of IBM technology. Students, thus, can be apprehensively the supplementary of IBM technology. Students, thus, can be apprehensively the supplementary of IBM technology. Students are the supplementary of IBM technology. The supplementary of IBM technology of IBM technology.

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2.2 Teaching resource pool

Integrated digital teaching platform gathers resources into a project, taps and develops teaching resources in the project according to the teaching task. Students, through the professional curriculum group, study gradually deeply, learn engineering projects selected by the platform, understanding a single project throughly. As the project itself is on the campus, students can integrate the physical buildings, 2D drawing, with 3D model by virtue of Internet+BIM technology.

2.3 Cut learning costs

In order to ensure students are free to use software, popular software like QQ. WeCHat, Baidu Netdisk is selected in storing resources and visiting the carrier, and the BIM software is Revit, Navisworks, Glodon which has been taught in the school. In adding resources and upgrading BIM models, teachers do not have to study new software, relieving stress of both teachers and students, cutting learning costs.

2.4 Focusing on the resource sharing on the mobile terminal

Due to the popularization and portability of mobile phone, and full wireless network coverage on campus, integrated digital teaching platform puts resource sharing on the mobile terminal as to priority. The selected software can be applied in the mobile terminal and the PC, so students can forward documents autonomously to finish different studying tasks. The classroom test, homework, questionnaire and teaching evaluation can be achieved via APP like Duifene, and Moso Teach.

3. Research on construction and practice of integrated digital teaching platform

3.1 Platform construction

The paper takes the teaching platform of student apartment building project as an example which completed by resource collection and collation, virtual-real synthesis, and resource sharing.

3.1.1 Resource collection and collation

Substantial resources in the project are accessed by collecting and editing construction photos, leos on the site.

videos on the site.

The 2D farwing, chart and text resources are acquired by gathering and optimizing drawing, (CAD/PDF) to meet the teaching needs. The construction organization design information is gathered and the aggregate schedule database is set up via the Microsoft Project.

Resources of 3D BIM model is obtained by building Revit model of student apartment building project, rendering and optimizing its Navisworks model, and constructing GGJ, GCL model of the apartment building by Glodon.

3.1.2 Virtual-real synthesis

3.1.2 Virtual-real synthesis
The virtual video of student apartment building construction is produced by utilizing Navisworks model and aggregate schedule database. Quality roaming video of buildings is derived from the rendering software— Lumion. Teachers will explain the knowledge combining the photos and videos of the construction and record micro-course online.
The classified resources are uploaded to the network disk so as to generate the QR code of each resource file, which is inserted in to the drawings in PDF. And its digital drawings are made to print for students as the teaching resources in the classroom. The QR code is posted on the corresponding architecture component for students to scan, and learn related knowledge, BIM model, pictures and videos via the link.

The realization of resource sharing is explained by the course teaching of Construction Technology of Engineering (Jianzhu Gongeheng Shigong Gongyi).

Teachers will push teaching resources like virtual construction video, drawing, and micro-course

video to students via the mobile phone before class so as to help them finish reviewing. In the class, teachers will display key points in the construction from multiple perspectives by looking through BIM models via Revit or Navisworks. After class, students will ask questions for teachers via sereenshots of WeChat and QQ and teachers will assign homework via the APP in the mobile phone. Students are encouraged to browse BIM Model or enter the physical buildings to finish the homework, which will be automatically accessed and collected in real time on the cloud. After the teaching assessment, teachers will upgrade and upload teaching resources according to students' feedback, new materials, technologies and techniques.

In the teaching practice, the integrated digital teaching platform, by gradual summary and improvement, has established a "3+3" teaching system comprised of "three-stage teaching" and "three-level teaching platform".

3.2.1 Inree-stage teaching model
According to the professional course setting in the talent training program, a three-stage teaching model is devised including model learning, model construction and model use. In the early stage, browsing and learning BIM model will help audents complete the introduction of the professional basic courses. And then, the opening of BIM technology course will guide students construct models independently by using BIM software. Finally, course practice will be realized according to the information about schedule, cost information with the construction cost software as shown in table 1.

Table 1 Three-stage teaching model

Stage	The first and second semesters	The third semester	The fourth and fifth semesters
	Learning model	Constructing model	Utilizing model
Major service courses	Construction Materials Construction Map Identification Construction technology in Real Project Construction CAD Construction Equipment, etc.	BIM Technology	Project management Project metering and Valuation Application of Project Cos Software Metering and Valuation of Installation Project, etc.

3.2.2 Three-level teaching platform

In the teaching practice, the feedback of students should be gathered so as to enrich at the resources on the platform, and a three-level teaching platform differing in complexity has been established as shown in table 2.

Table 2 Three-level teaching platform

level	primary	secondary	senior
Buildings selected	Student	High-rise housing in Huaqing Garden	Yellow River Delta High-skilled talent training center
Structural style Floor area	Frame structure 7000 m²	Frame—shear wall structure 16000 m*	Frame—shear wall structure 60000 m*



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4. Expansion and achievement

4.1 Enrich the IT teaching resources

By utilizing teaching resources on the integrated digital teaching platform, five textbooks and digital drawings are compiled, three provincial-level resource sharing courses and one department-level resource sharing courses are constructed, and two provincial resources sharing courses are constructed, and two provincial resources sharing courses are charged. urses are declaring.

4.2 Promote contest, innovation, and scientific research

Teachers, making use of resources provided by integrated digital teaching platform, take part in micro-course contests, and IT teaching contests, and win the first prize once, the third prize for two times in the IT teaching contest held by Shandong Polytechnic. At the same time, students have won the second prize and the third prize in college student scientific and technological innovation contest in the Binzhou Polytechnic and schieved outstanding results in the "Lu Ban" architectural engineering drawing contest of civil engineering of national higher vocational colleges.

4.3 serve the society and the industry training

Integrated digital teaching platform has not only helped students complete the virtual practical training, but launched exam training for spring entrance examination and BIM grade test, induction training of construction companies, and safety education training, which has been widely recognized by the society and the industry,

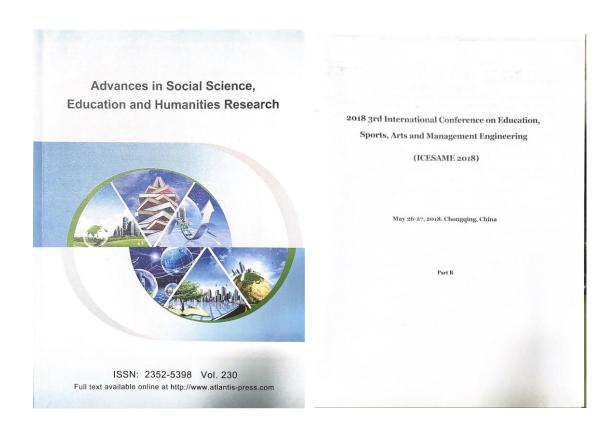
The research and practice of integrated digital teaching platform under the Internet+BIM technology sticks to the principle of "deriving from school and serving for school", develop and share teaching resources by BIM technology shaded on the physical buildings on campus. By using mobile internet technology, a 3+3 teaching system including three-stage teaching model and here-level teaching platform has been constructed, realizing the teaching reform in civil engineering in higher vocational colleges.

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Development of integrated digital teaching platform for civil construction in higher vocatio colleges under the "Internet +BIM" technology (2017232)

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Research on Teaching Methods and Means of Civil Engineering in Vocational Colleges

Na Li, Xiaowen Bian, Chengjie Luan, Wei Pan, Liyan Gao

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Keywords: vocational colleges; civil engineering; teaching methods and means

Abstract: This paper takes the civil engineering in vocational colleges as the research object be analyzes the social responsibility of vocational education under the new situation of economic development. The paper summarises the two major problems facing the civil engineering majors in vocational colleges, which are student issues and traditional education issues, and asserts that the reform of teaching methods and means is imperative. On the basis of practical argumentation, departs where the paper gives corresponding suggestions on the reform of teaching methods and means from five aspects: student subject, informatization teaching, project-driven, school-enterprise cooperation, evaluation mechanism, which provide reference for improving teaching quality.

evaluation mechanism, which provide reference for improving teaching quality.

Vocational education is an important part of our education system. For a long time, vocational education has been devoted to cultivating applied latents for the country, which are oriented in the first production line and services management at the grass-roots posts. In June 2014, the State Council issued twenty-eight important guidelines in the 'Decision on Accelerating the Development of Modern Vocational Education,' which emphasized the need to "innovate and develop highly and professional education has also made tremendous progress. Under the new economic studies in a vocational education has also made tremendous progress. Under the new economic studies in a vocational college should meditate deeply. For the first-line teachers, we must start from the grass-roots collectation and teaching, innovate and insulation in a stocational college should meditate deeply. For the first-line teachers, we must start from the teaching level. Only in this way can we better serve the country's exconomic construction and cannot be constructed and means in vocational education. In recent years, with the development of the construction and means in vocational education. In recent years, with the development of the construction industry, the demand for professional talants in the civil engineering industry has remained high traditional construction industry, the mechanization of prassroots workers. Compared the traditional construction industry, the mechanization of prassroots workers. Compared the traditional construction industry, the mechanization of prassroots workers. Compared the traditional construction industry, the mechanization of prassroots workers. Compared the traditional construction industry are increasingly improving, and an interest the quality of phores are also growing. Skilled personnel with a certain theoretical knowledge and professional teachers are also growing. Skilled personnel with a certain theoretical knowledge and profe

1. The main dilemma of civil engineering teaching in vocational colleges

At present, there are still some common problems in the education of civil engineering professionals in vocational colleges. The problems can be attributed to two major aspects of student issues and traditional teaching issues.

The students' problems are mainly reflected in the following three aspects. Firstly, the pre-school knowledge of vocational college students is relatively weak, while the curriculum of civil

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enjacring has relatively high requirements for math and physical literacy, so it exists some certain difficulties in theoretical teaching. Secondly, during the previous learning stage, quite a few students from vocational colleges did not have developed good study high can deven had a feeling of solio inverse, cultivate learning ability and learning awareness are major issues faced by professional eachers. At last, the students' the capacity for self-restaint and self-management needs to be improved, and civil engineering courses mostly have practical training and practice links, which puts forward higher requirements for the discipline organization, order maintenance and self-promotion of schools and teachers.

1.2 Traditional teaching methods

sifely promotion of schools and teachers.

12 Traditional teaching methods

The main drawbacks of the traditional classrooms isn't high. In traditional classrooms, teachers

the adopt "cramming" teaching methods. According to the content of lesson plans, they teach the

loantidee points which in the textbooks in sequence, and occasionally question in the classroom.

This kind of one-way teaching means that students are like "additional classrooms between the content of the content of the content of the classroom in the classroom is boring. Students are easily distracted, and it is difficult to cultivate interest in

refiscional courses. It is obvious that students "subject" status has not been exerted in such

refiscional courses. It is obvious that students "subject" status has not been exerted in such

refiscional courses. It is obvious that students "because of the state Council on Accelerating

the Development of Modern Vocational Education if is clearly stated that the development of

vocational education should "increase the level of informalization." With the development of

vocational education should "increase the level of informalization." With the development of

vocational education should "increase the level of informalization." With the development of

vocational education should "increase the level of informalization." With the development of

nullimedia tools, online courses, and simulation software for civil engineering majors will greatly

said classroom teaching and improve students' interest and cognitive ability. But the traditional

teaching methods has been difficult to synchronize with modern teaching means due to lacking oil

information technology and network resources. The third aspect is that the practice link is such

and students have poor hands-on skills. Civil engineering courses need practical,

and students have poor hands-on skills. Civil engineering courses need practical,

and students have poor hands-on skills. Civil engineering majors in vocational

words to claborate word

2. Suggestions on the reform of teaching methods and means

2-Neggestions on the reform of teaching methods and means

The reform of teaching methods and means for civil engineering majors in vocational colleges is imperative, which requires the educators to seriously study the twenty-eight key guiding opinions in imperative, which requires the educators to seriously study the twenty-eight key guiding opinions in imperative, which requires the control of the Control

2.1 Exchange roles, pad class, and improve students' participation in teaching activities

Give full play to students' subject-role, and actively guide students to participate in classroom

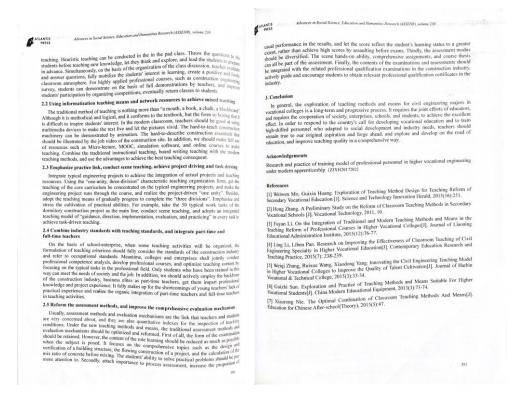


图 1-30《职业院校土建类专业的教学方法与手段改革研究》,2018.04,李娜、卞晓雯、栾成洁、潘伟,高丽燕,《Advances in Social Science,Education and Humanities Research》(ISSN:2352-5398)

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Research on the Reform of Ideological and Political Education in Colleges against the Background of Diversification ZHANG Yanhui

Research and Practice on improving the teaching ability of civil engineering teachers in Higher Vocational Colleges

Xiaowen Bian^{1,2}, Chengjie Luan, Fenghua Xia, Yang Li, Zhaojun Ren ¹Department of Architectural Engineering, Binzhou Polycechnic, Binzhou, 256603, China ¹E-mail: 179042508@qq.com

Keyword: civil engineering; teachers; Lifting scheme

Abstract: This article study the problems existing in teaching of Civil Engineering Specialty such as poor docking between the students? position ability and enterprise demand, the teachers' weak ability of information teaching and so on. Then lifting scheme of teaching ability is proposed from determining the goal of improving teachers' ability, speeding up the training of high level "Double Teachers" teachers, improving the application ability of teachers' new technology and teaching research ability. In praite, good results are achieved.

The birth of new technology in the construction industry, especially the BIM technology, the assembly technology and the development of the concept of green building, has brought new opportunities and challenges for professional teachers in Vocational Colleges and universities. Under the new demand for industrial upgrading, the teachers of civil engineering in higher vocational colleges have been put forward new requirements in the aspects of new knowledge and new skills. They need urgently to grasp the information products of the new era in order to be competent for teaching.

2 The main problems in the teaching of Civil Engineering

2.1 the poor docking between the students' position ability and enterprise demand

Under the new requirements of BIM technology, assembly construction, green intelligent building and other construction industry upgrading, the students' position ability in the traditional leatent training program is not well connected with the needs of enterprises. The students need to master new knowledge and new skills urgently to adapt to the transformation and upgrading of the construction industry.

2.2 the teachers' weak ability of information teaching

2.4 the teachers' weak abulty of information teaching.

Under the new requirements of the upgrading of the construction industry, information technology has been an inevitable teaching tool. If the teachers still stay in the traditional teaching methods, they can not meet the information teaching needs of BIM technology, assembly construction, green building and other aspects. The teacher is very difficult for the development of three-dimensional teaching resources, and they can not meet the current teaching mode of current "Internet plus" online and offline.

3 Countermeasures to improve the information ability of professional teachers

3.1 the program that the teaching needs guide engineering is carried out and the improvement goal of the teachers' teaching ability is set

3.1.1 Research activities for civil engineering majors in vocational colleges is carried out in order to determine the need for improvement

We will carry out research activities on the development trend of the construction industry, the

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-IV-

upgrading of the construction industry, determine the goal and direction of talent training, so as to determine the shortage of the ability and development direction of civil engineering professional professional constructions.

3.1.2 According to the professional teaching guidance plan, we should constantly improve teachers' promotion target of their ability.

teachery promotion target of their ability.

In accordance with the "views on the comprehensive start of the development of teaching under the comprehensive start of the development of teaching under the comprehensive start of the development of teaching under the comprehensive start of the development of the start of the start

Training a fight (see "souther qualification" teachers

3.2.1 A double quality training mode of "school caterprise parallel" should be established

We make enterprise experts to school teaching rounding state of the latest professional software
are invited to proofend teachers' training, including applications, not be these professional software
are invited to proofend teachers' training, including applications, not desire the professional software
are invited to proofend teachers' training, including applications, not make the professional software
are invited to proofend teachers' training, including applications, not include the proofend teachers and skilled cardiovation teachers and state of the proofend to the proofend to the proofend to the proofend that the proofend th

S.4. Casch type" teachers should be trained.
According to the selection and management method of teaching masters, we organized the
Guach type" teaching teacher selection. It will have certain enterprise experience and industy
interaction to the selection of th

nal leaders who have an impact on the industry should be fostered.

3.2.3 Professional leaders who have an impact on the industry should be fostered. professional leaders selection criteria is established, we gradually improve the selection, training teaching ability and the influent professional leaders with storage leader system is put into practice. In additional control of the selection ships of the control of the professional leaders with storage leader system is put into practice. In additional control of the selection of the professional leaders with industry influentian to the professional leaders are selected to participate in sandemic enables are selected to participate in sandemic enables, advanced study, not overcass training. This gives full play to the leading role of professional leaders in teaching research, teaching reform.

3.24 The construction of the backhone teachers should be strengthened.

we should optimize the selection and management of the backhone teachers, formulate the ordereds for selecting the backhone teachers, and improve the participation of the backhone teachers in all an about the selection of the backhone teachers in all an about the selection of the selection of the backhone teachers in all an about the selection of the select

3.3 The implementation of teacher training program to enhance teachers' new technology application ability and teaching research ability.

3.3 The implementation of teacher training program to enhance teachers' new technology application ability and teaching reactors hability.

3.31 We should implement the training system of the whole staff.

A failt training program is established in order to regaine regular training, such as teaching and training program is established in order to regaine regular training, such as teaching and resistance of the program of the staff of the state of the regular properties of the staff of the staff

3.4 The projects of the construction and sharing of high-quality courses can enhance exchange of the advanced technology and the high-quality courses.

$3.4.1\ Construction\ of\ high-quality\ resources\ sharing\ courses\ promote\ the\ sharing\ and\ mutual\ construction\ of\ course\ resources.$

Multaal construction of course resources.

To construction of excellent courses should be led by teachers with profound academic Malkiments, rich teaching experience and distinctive teaching characteristics, and the team members should include professional teachers and enterprise technical backbone. In the process resources of excellent courses, we should speed up the trust professional teachers are distinctive of excellent courses, we should speed up the trust with the integration of modern Managare and the contractive of the contractive of modern Malkimation technology means and new professional technology to the curriculum resources and

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The construction of excellent resource-sharing course based on large-scale online open platform

-A case study on"Construction Technology of Building Engineering" course

Wei Liu, Xiaolin Zhang, Hongsheng Yu , Xiaoli Ren, Hongmei Yan Binzhou Polytechnie, Binzhou 256603, China email:249191038@qq.com

Keywords: Excellent Resource; Sharing Course; Course Design; Open Platform.

Abstract: Based on the research on the construction and application of teaching resource platform of "Construction Technology of Building Engineering course, this paper expounds the main contents of curriculum design, construction tides and resource construction in the course construction of excellent resource-sharing courses based on large-scale online open platform, and provides a set of effective construction plan of excellent resource-sharing course, which provides reference for the construction of excellent resource-sharing course.

1. Introduction
The construction of excellent resource-sharing course is an important measure to speed up the reform of vocational education and teaching by using modern information technology^[3]. It is of great significance for improving teachers' teaching ability, innovating teaching methods and improving the quality of personnel training. In this paper hased on the core course of engineering cost majors. "Construction Technology of Building Engineering," the course construction concept based on large-scale online open platform, and sum up the experience and deficiencies in the development of excellent resource-sharing course, through curriculum design, construction plan, resources construction, and provides some references for improving the construction quality of other courses in civil engineering.

2. Integrated design of course

2.1. Accurately grasp the orientation of curriculum

2.1. Accurately grasp the orientation of curriculum

It is clear that the orientation of the excellent resource-sharing course in the curriculum system, combining with the students' cognitive law, arranging the relevant courses before and after the order, so as to make the high-quality resources courses play a key supporting and promoting role in the training of students' vocational post ability.

Construction technology of construction engineering is a core competence training course of engineering cost specially. It is a minortant part of the course system of engineering cost specially, and it is a strong support for professional employment—Cost engineer. This course takes the courses of "Architectural drawing and construction", "Multiplia Materials", "engineering survey" and so as at he former courses, and also provides services for the following courses, such as "Construction Engineering Measurement and valuation", "Analysis of Engineering courses are "Construction Engineering Measurement and valuation", "Analysis of Engineering courses are one on the construction methods, construction technology, and can make the construction plan, control the construction quality, etc. And they can solve the general technical problems in the construction, so as to meet the requirements capacity of cost engineer.

2. Ontinize the construction, so as to meet the requirements capacity of cost engineer.

2.2. Optimize the content of the course

Through the analysis of the professional ability of Cost engineer, the corresponding training

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objectives of this course are formulated, and the construction process of the real project of the school student apartment dormitory is taken as the clue. Abstract typical technological process and task as course content and resource carrier adopt. "Project Oriented, Task Driven" teaching methods, task construction procedure as the main line, connect each construction oraft in series in turn, ensure the integrity of the construction process, but also meet the practical requirements of teaching content.

content.

On the other hand, relying on the joint council of schools and enterprises, through the integration of the "professional standards for construction site professionals", industry and enterprise standards, cost engineer division, constructor division, to relaize "course certificate financing", "school enterprise financing", and to further optimize the structure of the curriculum and the corresponding

2.3. Innovative teaching model

2.3. Innovative teaching model
In the construction and application, this course explores the teaching mode based on "large-scale online open curriculum platform." This model divides teaching into three processes: before, during and after class. Through the information-based instructional design, and the teaching implementation, using the Internet technology, the digital resources and the information teaching environment, the system optimizes the teaching process.
Before class, teachers send out teaching tasks through the "large-scale online open curriculum platform". Students log in to the curriculum platform to watch the "micro video" for pre-class preparation, to find out the difficulties and doubts in learning. In class, create situations, using the "Project Oriented, Task Driven" teaching methods, the teacher uses the course platform to teach, and the student carries on the study practice with the curriculum resources-after class, students upload the tasks assigned by the teacher to the curriculum platform and complete the test exercises.
They can also communicate, discuss, and learn independently through the course forum.

3. planning curriculum construction scheme

3. panning curriculum construction science.
This course is based on a real construction project and "large-scale online open course platform", follow the principle of "resource available", in accordance with the "fragmented resource, systematic design, structured curriculum" train of thought for construction, mainly includes two aspects of curriculum content development and construction of curriculum resources.

3.1. Design of curriculum content construction.

Relying on the new student domitory building projects as the carrier, the actual construction process as the main line, with an emphasis on the cultivation of vocational ability, selecting typical project (task), to form teaching module, and breakly down the content of the module in accordance with the corresponding "knowledge points" and "skill points", the organization and arrangement of teaching content adopts "Project Oriented Task Driven" teaching methods to realize the training of students' vocational position ability [1].

3.2. Design of curriculum resources construction.

3.2. Design of curriculum resources construction.
According to the typical project of teaching content, the diversified course resources are built mit "micro-lecture video, 3D virtual digital model and Video of building construction". In accordance with the project and categories of resources for unified coding, resurring that the teaching resources are uploaded to the large-scale online open platform, the corresponding content and resources can be found quickly and easily, And facilitate the use, maintenance and promotion of resource platform. A partial list of course resources is shown in Table 1.



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5. Conclusion

The construction of the excellent resource platform of the course "Construction Technology of Building Engineering" already has a certain scale and hardware guarantee, it will enrich and perfect the resource platform continuously in the later period, and actively promote the application of the resource platform. And it will improve the value of sustainable utilization of curriculum resources, promote the construction of other courses of specialty,push the construction and application of curriculum resources to a new height.

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Table 1 List of Basic Resources for Courses(Portion) The subtasks Resource Name Format Quantity Completion Resource coding MP4 010102 Multimedia Courseware 010103 Video of Construction PPT Video of Construction Mp4
The engineering case Teaching Plan MP4, Word 0101 Land 010104 2017.10 010105 Teaching Plan Construction Pictures Simulation Animation Virtual Simulation CAD

4. Building diversified and high-quality resources

This course is relying on the new student dormitory building, selection of typical work tasks, to collect, organize and integrate resources Finally, and it has built a diversified resource platform, including leaching courseware, organering pictures, teaching micro-cleutur video, acquisition library, construction live video, virtual simulation model, animation demonstration, engineering case,

etc.

(1) The construction of serialized curriculum resources based on "construction procedure".

The construction project is divided into seven serialize typical projects according to construction propecture and construction schedule, and perform uniform coding after resource integration for several sub-items of the seven items. The teaching organization form of the serialization, able to ensure that students according to the process of building to complete the construction task until completion inspection and acceptance of the project, and conforms to the students' cognitive leavning rule.

completion inspection and acceptance of the project, and conforms to the students' cognitive learning rule.

(2) "Online Internet learning + offline construction simulation practice" resources combination. Students study online on a large online open platform.

Offline students can enter the construction entity at any time for comparison and study ((when the project is finished, it can be replaced with 3D model and live video,) Using the resource combination of "online Internet learning + offline" construction simulation practice", the "online + offline" dual-wheel drive is realized.

(3) Build the resources of "strengthening cultivation capacity".

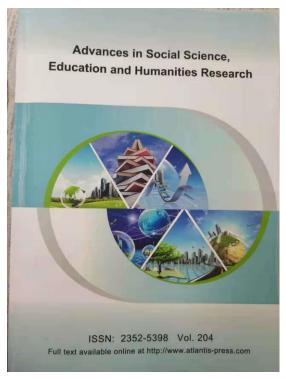
Principles of the construction of the curriculum resources is the material of tiny, granular, with "the smallest unit of knowledge and skill points" as the foundation, using resource "availability and recognition" as the full-time closely integrated theory and engineering entity, through the "micro-lesson to teach knowledge, live video to learn operation, the virtual simulation to Practice" of supporting learning, Through "from knowledge point to knowledge", finally develop the students' comprehensive ability".

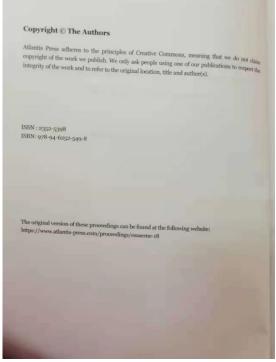
comprehensive ability^[0].

(4)*Keeping up with The Times" of resource content
In recent years, with the changes and revisions of building standards, codes, and drawings.this
course utilizes the opportunity of students' domained building to update and improve the original
teaching content and teaching resources, and eliminate backward and obsolete resources. In addition,
a curriculum development resource library should be established to broaden the horizon of students,
enrich the forms of resources, and supplement and improve new Building technologies and
craftwork ^[4]

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图 1-32《基于大规模在线开放平台的精品资源课程建设---以<建筑工程施工工艺>课程为例》, 2018.04, 刘伟、张晓霖、于洪胜、任晓丽、燕红梅,《Advances in Social Science, Education and Humanities Research》(ISSN:2352-5398)





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Abstract: With the improvement of technology level, the construction industry has more and more requirements to the history. Taking the engineering cost specialty has an example.

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Keywords: modern apprenticeship, talent cultivation mode, the engineering cost specialty, the key problems and actively improve the talent cultivation mode, and considerable and actively improve the talent cultivation mode, so so to meet the new demand for talents in the development of the industry. Taking the engineering cost specialty as an example, this paper discusses the key problems in the process of building modern appreciacion plant produces the construction of the training objectives, the careful and the improvement of the orientation of the training objectives, the careful and the improvement of the orientation of the training objectives, the careful and the improvement of the orientation of the training objectives, the careful and the improvement of the orientation of the training objectives, the careful and the improvement of the orientation of the training objectives, the careful and the improvement of the orientation of the training objectives, the careful and the improvement of the orientation of the training objectives, the careful and the improvement of the orientation of the training objectives, the careful and the improvement of the orientation of the training objectives, the careful and the days of the orientation of the training objectives, the careful and the days of the orientation of the training objectives, the careful and the days of the provides a thorortical orientation of the training objectives

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engineering cost specialty is a professional with strong practicality and skill. With the industrial upgrading of the construction industry, especially the popularization and application of BMs upgrading of the construction industry, especially construction industry, especially constructions and business scope or software, many changes have their place in the work mode, intensing mode and business scope in the strength of the construction of

3. The key problems in the process of building modern apprenticeship talent cultivation mode. The construction of the modern apprenticeship talent cultivation mode needs the concerted efforts and extensive participation of the government, industry associations, enterprises, colleges and universities, and even the whole see government, industry associations, enterprises, colleges and universities, and even the whole see government, industry enterprises, colleges and universities, and even the whole see government, have an inexapable responsibility and obligation for the advancement of modern protection, have an inexapable responsibility and solicitation of the advancement of modern protection and teaching reform of the modern apprenticeship and exticely build a modern apprenticeship altert cultivation mode to adapt to the needs of talents in industry development and industrial upgrading. This article analyzes the key problems of the modern apprenticeship talent cultivation mode from five aspects.

3.1 The orientation of the training objectives.

3.1 The orientation of the training objectives

3.1 The orientation of the training objectives

The development of building industrialization and intelligence has put forward higher requirements for practitioners in the engineering cost industry. As the cradle of high skilled talents, higher vocational colleges should better practice the talent cultivation mode of modern apprenticeship. First of all, it is necessary to have a clear orientation to the training objectives, in order to meet the requirements of industrial upgrading, higher vocational colleges should fully discuss with the enterprise experts, and then understand the requirements of the enterprise, update and expand the original training objectives, which must cover the frour aspects of theoretical knowledge, practical skills, professional accomplishment and mnovative potential. At the level of theoretical knowledge, students must have a good craver of theoretical knowledge, and have a good grasp of the industry standards, laws and regulations, and the core courses of the major. At the level of the industry standards, laws and regulations, and the core courses of the major. At the level of practical skills, students are required to be professional echies, survive for At the level of professional quality, students are required to the professional echies, survive for At the level of professional quality, students are required to the professional echies, survive for At the level of professional quality, students are required to the professional echies, survive for At the level of professional quality, students are required to the professional echies, survive for At the level of professional engineering cost. They are competent for post functions and create social values, basic business of engineering cost. They are competent for post functions and create social values, basic business of engineering cost. They are competent for post functions and create social values, and the core courses of the major. At the level of professional echies, are competent of post functions and create professional echies,

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3.2 The construction of the curriculum system

Higher vocational colleges should take the professional ability as the main line and jointly control of the production and of the production and of the production and discussion with the enterprise experience of the production and discussion with the enterprise experience of the production and discussion with the enterprise experience of the production of the content professional content and the monaction potential and the innovation potential and the innovation potential module. Among them, public content and related to vocational qualifier econophilosy courses. In order to facilitate student' choice of courses are content of the production of the content of the production of the content of the production of the content of the c

In order to build the modern apprenticeship talent cultivation mode in higher vocational colleges, we must have a highly qualified teaching staff. The optimization of teaching staff can be started from the following four aspects. First of all, we must strengthen the training of the teachers. The following four aspects. First of all, we must strengthen the training of the teachers. The following four aspects. First of all, we must strengthen the training of the teachers. The following four aspects for training and improve themselves. Teachers' training can make teachers receive advanced teaching ideas and methods, develop strong ability of scientific research and high-level of scientific research, and make the education and teaching state and scientific research service ability keep pace with the times. Secondly, teachers should be encouraged to go to enterprises for training. During the period of building the modern apprenticeship system, it is far from enough that teachers only have theoretical toushedge of the reserve. They must have strong practical skills are taken the specific contribution of the strength of the project. This requires higher vocational teachers to participate in training regularly in enterprises, keep pace with the development of the industry, and continuously improve the level of business. Thirdly, the teacher's access mechanism and evaluation mechanism should be improved. In the links of teacher requirement and professional title evaluation, practical skills are taken as one of the indicators of assessment and evaluation. We should change the past shortcomings of "emphasizing education and despining skills," and comprehensively enhance the practice level of teachers. Fourthly, the part-time teachers of enterprises can be introduced. The strategy of "please come in" can be adopted. We can employ the technical backbone of the centerprise and the expert of the industry to be a part-time teacher in the college, and they can teach the practical and hands-on course of the students. This not on

3.4 The reform of teaching mode

3.4 The reform of teaching mode

The traditional teaching of higher vocational education is generally "knowledge based" education, while the modern apprenticeship talent cultivation mode should take "ability based" education, while the modern apprenticeship talent cultivation of students' comprehensive quality and working education and pay more attention to the cultivation of students' comprehensive quality and working education and pay more attention to the cultivation of students' comprehensive quality and working education and pay more attention and project oriented is adopted in combination with the project case. The student is build scenarios, so that students can build scenarios, so that students can build scenarios, to that students can build work to the students t

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tests, banich beainstorming and voting activities. And the traching resources can be upheaded to the platform for students to read and learn at anytime and anywhere. In addition, in the reform of teaching mode, teachers should renew their ideas and actively adopt advanced methods to implement teaching. For example, teachers can enhance students' interest in learning by introducing micro class, flipped elastroom, the Qroody, Welchap public number and other forms of students'

3.5 The improvement of evaluation mechanism

3.5 The improvement of evaluation mechanism

The evaluation mechanism about the modern apprenticeship talent cultivation mode mainly includes two parts the first one is the school evaluation, and the second one is the enterprise evaluation. The school evaluation is usually conducted in the form of examination according to the control of the control of the control of the control of partical examination is adopted for the consess with strong special varieties examination is often despoted. While the control of partical examination is adopted for the control of the control

4. Conclusion
The industrial sugrasling of the construction industry has put forward higher requirements for its employees. The implementation of the modern apprenticeship talent cultivation mode complices with the trend of industrial development, and promoted the students' practical skills and comprehensive quality. Taking the engineering operating as an example, this paper discusses the key problems in the process of building modern apprentially as an example, this paper discusses the analyzes the five aspects of the orientation of the training curriculum system, the optimization of the teaching artific the effortives, the construction of the improvement of the evaluation mechanism. And the corresponding such teaching model and the provide theoretical reference for the construction and improvement of the modern apprenticeship palent cultivation mode in higher vocational colleges.

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Analysis on the Status Quo of the Document Resources Guarant Key Subjects in Local Undergraduate Colleges and Universities Li Shuang A Preliminary Analysis of the Teaching Reform of Marxist Philosophy in Colleges and Universities Jin Lijing Exploration of "Dual system" Talent training Model of German Vocational Education in China Han Xueiun, Zhu Yu Research on the Integration of Innovation and Entrepreneurship Education and Specialty Education in Higher Vocational Engineering Studies on the Cultivation of Values of Maritime College Students' Occupational Pride Qian Wang, Han Qin, Mei Yuan, Zhuolin Wan The Application of Scene Design in Maritime English Listening and Speaking Teaching Problems and Countermeasures of Computer Network Teaching in Colleges and Universities Permanence and almost periodic solution for a n -species competitive system 523 Discussion of the Factors that Influence the Amazon's Share Prices Research on Development Path of Wenzhou Intelligent Manufacturing under Trend of Emerging Industry 538 The brief analysis on the key problems in the process of building modern apprenticeship talent cultivation mode in Higher Vocational Colleges ——Taking the engineering cost specialty as an example Xiuyan Zhang, Chengjie Luan, Xiaolin Zhang, Huiqin Yang, Xia Zh Research on the Development of Modern Apprenticeship in Higher Vocational Colleges Na Li, Xia Zhao, Chengjie Luan, Zhaojun Ren, Xiaolin Zhang

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Advances in Social Science, Education

mics, Social Science, Arts, Education and Management Engineering (ESSAEME 2)

Research on the Development of Modern Apprenticeship in Higher Vocational

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Keywords: modern apprenticeship, project cost, existing problems, measures and suggestions

Abstract: The modern apprenticeship system is a research hotspot in the process of education and teaching reform in China's Higher Vocational Colleges in recent years. It is an effective way to alleviate the contradiction between the supply and demand of the labor force in the present society. Taking the engineering cost major as an example, this paper explores the problems faced by the modern apprenticeship in the implementation process and puts forward corresponding measures and suggestions for these problems.

1. Introduction

1. Introduction
In recent years, along with the vigorous development of our national economy and the continuous promotion of scientific and technological strength, on the one hand, the demand for talents is increasing, and many enterprises are facing the problem of "labor shortage", on the other hand, higher vocational colleges must constantly improve and improve their teaching mode so as to adapt to the new needs of the society to solve the problem of "difficult employment" for students. In 2010, the outline of the "National medium and long term education reform and development plan alleviate the contradiction between the labor supply and demand structures". Based on this, the modern apprenticeship has become a hot topic in the process of education and teaching reform in Higher Vocational Colleges in recent years.

2. The problems in the implementation of the modern apprenticeship system

2. The problems in the implementation of the modern apprenticeship system. The implementation of the modern apprenticeship training model has promoted the student's practical skills and professional qualities, and promoted and improved the employment of graduates in higher vocational colleges to deliver more system of Islant training mode makes it possible for higher vocational colleges to deliver more high-quality and highly skilled talents to the society, which is conducive to the improvement of the pulpids of "labor shortage", However, there are some problems to be solved in the implementation of the modern apprenticeship system. This paper analyzes the two aspects of the external environment and internal factors, and summarizes these problems into four aspects: the government, the enterprise, the school and the students.

2.1 Government aspects

2.1 Government aspects
At present, the relevant laws in vocational education can be based on (the Law of Higher Education) and (the Law of Vocational Education). In terms of modern apprenticeship and school enterprise cooperation, there is no special legislation or regulations to guarantee the interests of both schools and enterprises and to restrain the behavior of both schools and enterprises. However, in the process of implementing modern apprenticeship, there are many matters requiring detailed rules and legal documents. For example, sitpulates the obligations that enterprises should perform in the process of implementing modern apprenticeship, and offers preferential policies to enterprise participating in apprenticeship. Without the guarantee of the relevant legal system, the enterprise

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see often lacks the motivation and sense of obligation to participate in the modern apprenticeship when. In addition, the process of modern apprenticeship implementation is a process of capital assessment. Students enter the enterprise from the school. For the enterprise, the training cost is difficult to arouse the untuinsant of the enterprise to participate in the apprenticeship. In modern apprenticeship, in the process of the construction of modern apprenticeship of the construction of the enterprise to participate in the apprenticeship. In modern apprenticeship of the assessment methods and the process of the construction of the teachers' some construction thanks are short or logged, it is very likely that the apprenticeship system will accorde a more formality.

2.2 Enterprise aspects

2 Enterprise aspects
A prominent phenomenon in the implementation of modern apprenticeship is "enterprise cooling, associ craze." He enterprise is a profit-making organization that pursues profit and rate of return; set the school is a public welfiner organization, taking education as its responsibility. The two sector of completely different nature need to carry out the modern apprenticeship systems negother; we are many problems in the unity of goals and the interests of coordination, and most of the subsems come from the enterprise. In the implementation of apprenticeship, must exprise as of the school of the subsems come from the enterprise. In the implementation of the modern apprentiation of the wages of the students is token as the subsems to send earlier than the subsems to the subsems to send the subsems to the subsems to send the subsems to the subsems to send the subsems to subsems to the subsems to subsem to the subsems to subsem to the subsems to subsem the expactive requirements of the enterprise. Even after a period of training, the apprenticeship to the full via public parise, they of the enterprise. Even after a period of training, the apprenticeship to the full via the interestible peripers, they of the content and the subsems to subsems to the subsems to subsems to subsems the subsems to subsems the subsems to subsems the subsems to the subse

3 School aspects

School aspects

age vocational colleges are the main organizers and leaders of the modern apprenticeship. The success of the modern apprenticeship training mode depends partly on whether the of the schools are in place. First of all, schools must work together with business experts to an formulate curriculum standards to ensure that the curriculum standards or superior that curriculum standards and the teaching content meets the needs of the activation and schools observed that the point. Only on the basis ties of the enterprise, and it tales the effective and the standards and the standards are schools of the standards. The standards are schools of the standards are schools of the standards and the standards are schools of the standards. The standards are schools are schools are standards are schools are standards are schools and the school and the school and the school and the school are schools and the school and the school are schools a



2.4 Student aspects

2.4 Student sapects

Students are the biggest beneficiaries of modern apprenticeably training mode. The students of apprenticeable pathless students to get good internship opportunities. The promotion of practical skills and post literacy can effectively promote students' employment achieve zero distance job placement. However, in the implementation of modern apprenticeable students' problems should not be underestimated. The problem of students is first manifested students' problems should not be underestimated. The problem of students is first manifested student of the significance of the modern apprenticeable training model, instakes not understand the significance of the modern apprenticeable training model, instakes and apprenticeable in the transaction between schools and enterprises, and students only act as cheer of the students of the studen

3. Measures to improve the modern apprenticeship sy

3. Measures to improve the modern apprenticeship system. Through the analysis of the above, we know that the implementation of the modern apprenticeship system still has some aspects to be improved. In view of the existing problems of the modern apprenticeship, this paper puts forward the corresponding measures and suggestions from the four aspects of the government, the association, the school and the students.
3.1 Government should further strengthen its support

3.1 Government should further strengthen its support
In the modern apperentically mode of school enterprise cooperation, enterprises often show a
"cold" feature. This is because that enterprises as for-profit organizations, which in the process of
the implementation of modern apprenticeship, do not feel the benefits of "incentive", and the initial
investment is difficult to recover profits the profit of t

3.2 Industry associations fully play the role of coordination

3.2 Industry associations tury play the rote or coordination.
Taking engineering oot enterprises as an example, in a certain scope of administrative division (such as city), we can take the lead of several large cost companies to gather local cost enterprises and to from association organizations. The association organization represents of the local cost industry, and has the functions of organization, coordination, such association, in the process of permonting the construction of the apprenticability system, the industry association should give full play to its coordination function and become the medium for government and the university to contact the enterprise. At the same time, it can also express the demands of the enterprise to the government and the school to maintain the common interests of the

Advances in Social Science, Education and Humanities Research, volume 204

surprises in the industry. In addition, the industry association should also provide experts, serve as sublants for modern apprenticeship construction, who will fully participate in the informaliation of surface and assessment standards, and fully participate in the identification of desisonal competence and the issue of qualification certificates. The emergence industry sociations can not only effectively safeguard the interests of enterprises, but also integrate the served enterprises into an organic and orderly group, which is beneficial to the development and elementation of the modern apprenticeship system.

3. Higher vocational colleges continue to improve self- construction of modern apprenticeship

3. the main hody of the modern apprenticeship as the main hody of the modern apprenticeship.

the main body of the modern apprenticeship construction, the higher vocational colleges and give full play to their own leading role. Under the guidance of government and the did give full play to their own leading role. Under the guidance of government and the control of the play to the play the play the play to the play the play the play the play to the play the

chools and enterprises assist students to adapt to their identity conversion

bands and enterprises assist students to adapt to their identity conversion
have the modern apprenticeship mode, the students need to enter the internship stage after
any the theoretical study inside the school. The transition from student to apprenticeship is a
top for students themselves. This requires both sides of the school and the enterprise to care
students to the school should be a school should be a students to the students at intern instructors. An internship instructor is responsible for guiding several intern
at the same time, the intern instructors should strengthen the concent for students, and go
unerprise regularly to understand the life and work of students and find out the problems in
the enterprise, the enterprise technicians who serve as "tucher" are in contact with the
most. The enterprise should strengthen the investigation of the professional skills and
master of the "steachers" to resure that the students can effectively improve the practical
and establish a good and harmonious relationship between them. In addition, enterprise
supportse with schools to arrange students' daily life during internship so as to ensure
physical and mental health.

the engineering cost specialty as an example, this paper studies the problems faced by stational colleges in the process of implementing the modern apprenticeship system, unsates the root of the problems. On this tasks, the paper puts forward some suggestion techniquest of modern apprenticeship from four levels; government, industry association and students. It provides a theoretical reference for higher vocational colleges the construction of modern apprenticeship.

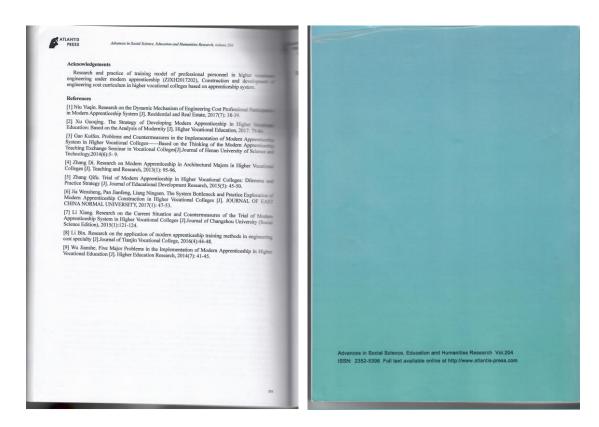


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