



# The Quality Evaluation of talents training in civil Architecture and Landscape Architecture at Guangxi Vocational and Technical College of Transportation

Li Liang<sup>1,2,\*</sup>, Kanokkan Kanjanarat<sup>1</sup>

<sup>1</sup>Bansomdejchaopraya Rajabhat University, Bangkok, Thailand

<sup>2</sup>Qingxiu District Qinghuan Road Fengling Evergrande apple Orchard Oriental Shiyun 24 building 1406, Nanning, Guangxi, China

\*lili3979@qq.com

**Abstract.** The research sampling group was 375 students who were majoring in civil architecture and landscape architecture at Guangxi vocational and technical college of transportation. The research instrument is the Questionnaire. Its design is based on the following four aspects: 1) Courses and learning; 2) Instructional resources; 3) Teaching material equipment; 4) Employment. The research instruments were questionnaire. The statistics used were frequency, percentage, mean, standard deviation, and content analysis. The results were found that: To provide an analysis reference for the employment of graduates majoring in landscape architecture: The status quo of satisfaction of students majoring in civil architecture and landscape architecture at Guangxi vocational and technical college of transportation is at a very satisfied level. Taking into account the results of this study, the extremely satisfied level is Teaching material equipment, followed by Instructional resources, on the contrary, the lowest level is Courses and learning.

**Keywords:** Higher vocational education; Major in landscape architecture; Personnel training; Teaching reform.

## 1 Introduction

Under the influence of multiple factors such as the repeated impact of the new coronavirus epidemic, real estate regulation, the slowdown of national economic development and the contraction of the market, the industry situation is becoming more and more severe (Baochang & Wang Qingfen, 2011)<sup>[1]</sup>. As the bellwether of the industry, 33 of the more than 90 listed companies with ecological garden environment as the main business in 2023 have losses, and the loss rate has further increased compared with 2022. The construction of urban landscape began to trend toward economizing and ecological development. On the other hand, the profit space of large-scale landscape enterprises is continuously compressed, and the means of reducing staff and increasing efficiency is to replace single technical talents with compound talents to achieve personnel downsizing and reduce labor costs (Cui B, 2019)<sup>[2]</sup>. Therefore, this study takes Guangxi

© The Author(s) 2024

I. A. Khan et al. (eds.), *Proceedings of the 2024 3rd International Conference on Humanities, Wisdom Education and Service Management (HWESM 2024)*, Advances in Social Science, Education and Humanities Research 849, [https://doi.org/10.2991/978-2-38476-253-8\\_69](https://doi.org/10.2991/978-2-38476-253-8_69)

Vocational and Technical College of Transportation as an example to study the training quality of civil and landscape professionals in higher vocational colleges. The significance of the study lies in meeting the needs of national construction, promoting the innovative development of the industry, improving the quality and safety of the project and promoting sustainable development. This is of great significance to the development and progress of society.

## **2 Theories and related researches**

### **2.1 Theories**

#### **Civil architecture and landscape architecture**

The civil construction major is mainly for building construction enterprises, installation units, design units, owners, supervisors and other units and management departments at all levels to cultivate practical technical talents engaged in construction technology, project management, construction budget, construction supervision and other aspects<sup>[3]</sup>. Landscape architecture is an applied discipline based on a wide range of natural disciplines and humanities, and the learning content mainly includes: landscape analysis, planning, layout, design, transformation, protection, management and landscape ecological restoration<sup>[4]</sup>.

#### **Talent cultivation**

Talent training refers to the activities of cultivating talents with certain knowledge, ability and quality according to the needs of social and economic development, following the laws of education, adopting scientific educational methods and means<sup>[5]</sup>.

#### **Quality of personnel training**

Most scholars interpret the quality of talent training as the degree to which the talents cultivated by educational institutions meet the needs of students' personal development and social development. The level of talent training quality is carried out by a specific education model, which meets the needs of society and reflects the development of individuals<sup>[6]</sup>.

### **2.2 Related Researches**

In the teaching reform of civil architecture and landscape architecture specialty in higher vocational colleges, Versailles College of Landscape Architecture in France has successfully established a set of relatively independent and complete personnel training system<sup>[7]</sup>. In the cultivation of talents, it attaches importance to the cultivation of students' professional observation and analysis ability. In each course design, students are required to make several field visits, carefully observe the site and make models to express the design scheme, and cultivate students' hands-on ability. In addition to training students' practical skills in practical teaching, the French Academy of Landscape Architecture of Versailles also focuses on cultivating students' theoretical knowledge

of landscape architecture and design inspiration<sup>[8]</sup>. In the UK, vocational landscape education focuses on cultivating high-quality graduates with equal emphasis on theoretical knowledge and practical ability<sup>[9]</sup>.

### 3 Research methodology

The research sample is 375 students from 15000 Guangxi Vocational and Technical University of Transportation students, based on the Krejcie & Morgan Table. (1970) And a stratified random sampling method was adopted.

The data Instruments for Questionnaire of satisfaction of students majoring in civil architecture and landscape architecture at Guangxi vocational and technical college of transportation. Its design is based on the following four aspects: 1) Courses and learning; 2) Instructional resources; 3) Teaching material equipment; 4) Employment.

From the end of July to August 2023, the author conducted a survey on the students majoring in civil architecture and landscape architecture in Guangxi Vocational Transportation Technical College and compiled a questionnaire. Through random sampling, using the questionnaire star program as the medium, wechat and QQ issued questionnaires. The data collected through the Internet platform ensured the recovery rate and reliability and validity of the questionnaire.

- 4.50-5.00 refers to extremely satisfied.
- 3.50-4.49 refers to very satisfied.
- 2.50-3.49 refers to satisfied.
- 1.50-2.49 refers to be basically satisfied.
- 1.00-1.49 refers to dissatisfied.

### 4 Results of research

**Table 1.** The average and standard deviation of satisfaction of students majoring in civil architecture and landscape architecture at Guangxi vocational and technical college of transportation are analyzed from four aspects

	$\bar{x}$	SD	Level	order
1. Courses and learning	4.51	0.83	extremely satisfied	4
2. Instructional resources	4.71	0.84	very satisfied	2
3. Teaching material equipment	4.74	0.76	very satisfied	1
4. Employment	4.71	0.81	extremely satisfied	3

As can be seen from Table 1, the status quo of satisfaction of students majoring in civil architecture and landscape architecture at Guangxi vocational and technical college of transportation is at a very satisfied level ( $\bar{x}=4.67$ ). Taking into account the results of this study, the extremely satisfied level is Teaching material equipment ( $\bar{x}=4.71$ ), followed by Instructional resources ( $\bar{x}= 4.71$ ), on the contrary, the lowest level is Courses and learning ( $\bar{x}=4.32$ ).

**Table 2.** Students' satisfaction with Courses and learning of civil architecture and landscape architecture in Guangxi Vocational and Technical College of Transportation

<b>Courses and learning</b>	$\bar{x}$	SD	Level	order- ing
1.Satisfaction with this major	4.63	0.57	extremely satisfied	4
2.Satisfaction with the curriculum arrangement of this major	4.63	0.61	extremely satisfied	3
3.How satisfied you are with the time you spend studying your major every day	4.77	0.42	extremely satisfied	1
4.Satisfaction with specialized skill practice courses for this major	4.75	0.72	extremely satisfied	2
5.Satisfaction with the mastery and application of course knowledge	4.63	0.43	extremely	5

From Table 2, the extremely satisfied level of Courses and learning of Students' satisfaction with of civil architecture and landscape architecture in Guangxi Vocational and Technical College of Transportation ( $\bar{x}=4.51$ ,  $SD=0.83$ ). In the survey of Courses and learning, Number one in satisfaction ranking is " How satisfied you are with the time you spend studying your major every day " ( $\bar{x}=4.77$ ,  $SD=0.42$ ), followed by " Satisfaction with specialized skill practice courses for this major " ( $\bar{x}=4.75$ ,  $SD=0.72$ ). The lowest ordering was " Satisfaction with the mastery and application of course knowledge" ( $\bar{x}=4.63$ ,  $SD=0.43$ ).

**Table 3.** Students' satisfaction with Instructional resources of civil architecture and landscape architecture in Guangxi Vocational and Technical College of Transportation

<b>Instructional resources</b>	$\bar{x}$	SD	Level	Order
1.Your overall evaluation of the teaching quality of the major as a whole	4.84	0.32	extremely satisfied	1
2.Satisfaction with the academic level and teaching effect of the teachers of this major	4.64	0.52	extremely satisfied	4
3.The degree of satisfaction with the teaching and education of teachers	4.83	0.64	extremely satisfied	2
4.The degree of satisfaction with the after-school learning guidance of teachers in this major	4.56	0.42	extremely satisfied	5
5.Satisfaction with professional practice and competition development	4.67	0.56	extremely satisfied	3

From Table 3, the extremely satisfied level of Instructional resources of Students' satisfaction with of civil architecture and landscape architecture in Guangxi Vocational and Technical College of Transportation ( $\bar{x}=4.71$ ,  $SD=0.84$ ). In the survey of Instructional resources, Number one in satisfaction ranking is " Your overall evaluation of the teaching quality of the major as a whole " ( $\bar{x}=4.84$ ,  $SD=0.32$ ), followed by " The degree of satisfaction with the teaching and education of teachers " ( $\bar{x}=4.83$ ,  $SD=0.64$ ). The

lowest ordering was " The degree of satisfaction with the after-school learning guidance of teachers in this major" ( $\bar{x}$ =4.56, SD=0.42).

**Table 4.** Students' satisfaction with Teaching material equipment of civil architecture and landscape architecture in Guangxi Vocational and Technical College of Transportation

Teaching material equipment	$\bar{x}$	SD	Level	Order
1.Satisfaction with the teaching materials selected by the school	4.65	0.74	extremely satisfied	4
2.Satisfaction with the training base and site of the school	4.86	0.84	extremely satisfied	2
3.Satisfaction with the school's teaching equipment	4.74	0.35	extremely satisfied	3
4.Satisfaction with the number of elective courses offered by the school related to the major	4.57	0.59	extremely satisfied	5
5.The content of the lectures held by the school is full of the role of the major	4.87	0.53	extremely satisfied	1

From Table 4, the extremely satisfied level of Teaching material equipment of Students' satisfaction with of civil architecture and landscape architecture in Guangxi Vocational and Technical College of Transportation ( $\bar{x}$ =4.74, SD=0.64).In the survey of Teaching material equipment, Number one in satisfaction ranking is " The content of the lectures held by the school is full of the role of the major " ( $\bar{x}$ =4.87, SD=0.43), followed by " Satisfaction with the training base and site of the school " ( $\bar{x}$ =4.86, SD=0.84). The lowest ordering was " Satisfaction with the number of elective courses offered by the school related to the major" ( $\bar{x}$ =4.57, SD=0.59).

**Table 5.** Students' satisfaction with Employment of civil architecture and landscape architecture in Guangxi Vocational and Technical College of Transportation

Employment	$\bar{x}$	SD	Level	Order
1.How satisfied you are with the job prospects of your major	4.71	0.74	extremely satisfied	3
2.Your satisfaction with your future career	4.68	0.84	extremely satisfied	4
1.The degree of matching between major and future employment intention	4.74	0.35	extremely satisfied	2
4.Satisfaction with the implementation of school employment guidance activities	4.57	0.59	extremely satisfied	5
5.Satisfaction degree of professional teachers' employment guidance	4.87	0.53	extremely satisfied	1

From Table 5, the extremely satisfied level of Employment of Students' satisfaction with of civil architecture and landscape architecture in Guangxi Vocational and Technical College of Transportation ( $\bar{x}$ =4.71, SD=0.76).In the survey of Employment, Num-

ber one in satisfaction ranking is " Satisfaction degree of professional teachers' employment guidance " ( $\bar{x}$ =4.87, SD=0.53), followed by " The degree of matching between major and future employment intention " ( $\bar{x}$ =4.74, SD=0.35). The lowest ordering was " Satisfaction with the implementation of school employment guidance activities" ( $\bar{x}$ =4.54, SD=0.59).

## 5 Conclusion

According to the research The quality evaluation of talents training in civil architecture and landscape architecture at Guangxi vocational and technical college of transportation, The results are summarized as follows:

The status quo of satisfaction of students majoring in civil architecture and landscape architecture at Guangxi vocational and technical college of transportation is at a very satisfied level. Taking into account the results of this study, the extremely satisfied level is Teaching material equipment, followed by Instructional resources, on the contrary, the lowest level is Courses and learning.

According to the research results on the current situation of satisfaction of students majoring in civil architecture and landscape architecture at Guangxi vocational and technical college of transportation, Schools should improve the Courses and learning related to the major; Second, Teachers should strengthen the explanation of curriculum knowledge in order to learn and apply; Thirdly, The intensity of after-school guidance for teachers in this specialty should be increased; Fourth, Schools should increase the number of elective courses related to the major; Fifth, Schools should strengthen the monitoring of the implementation of employment guidance activities.

## References

1. Baochang & Wang Qingfen. (2011). The perfect integration of architecture, nature and ecology-Innovation and Practice of cultivating landscape professionals in Changchun Institute of Architecture. *Agricultural Technology and Information (Modern Garden)* (09), 47-49.
2. Cui B. (2019). Research on quality evaluation of talents training for service industries in higher vocational colleges. *Chinese Journal of Multimedia and Network Teaching (Mid-10 days)* (09),80-81.
3. Dong Feiyan. (2020). Analysis on quality evaluation of talent training in Higher vocational colleges. *Journal of Yangling Vocational and Technical College* (03),65-67.
4. Gao Hongyu, Gao Guangling, Li Zhuoyue & Zhang Lei. (2022). Analysis on the construction of quality evaluation system for talent training in Higher vocational colleges. *Journal of Shandong Electric Power College* (06), 60-62.
5. He Xianzhu. (2022). Research on the construction of quality evaluation index system for technical skills training in Higher vocational colleges in the new era. *Industry and Technology Forum* (23),255-257.
6. Huang Liwen. (2022). Research on quality evaluation of innovative talents training in Higher vocational colleges under the background of "Double high Construction". *Journal of Xingtai Vocational and Technical College* (04),41-44.

7. Pudup, M. B. (2008). It takes a garden: Cultivating citizen-subjects in organized garden projects. *Geoforum*, 39(3), 1228-1240.
8. Hardlife, Z., Talent, M., & Oswell, R. (2017). Streambank Cultivation along Chiredzi River in Zaka District, Zimbabwe: An Activity Widely Practiced But Institutionally Condemned. *International Journal of Agriculture, Environment and BioResearch*, 2, 79-96.
9. Fernandez, J. A., David, E. M., & Chen, S. (2022). Attracting and Cultivating Innovative Talent. In *Innovative to the Core: Stories from China and the World* (pp. 173-196). Emerald Publishing Limited.

**Open Access** This chapter is licensed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (<http://creativecommons.org/licenses/by-nc/4.0/>), which permits any noncommercial use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license and indicate if changes were made.

The images or other third party material in this chapter are included in the chapter's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the chapter's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder.

