

## Employer Questionnaire Survey

1. Unit Information A1. The name of your unit is: \_\_\_\_\_ [Fill in the blank][\[Fill in the blank\]](#)

Please obtain the fill-in-the-blank question data by downloading the detailed data

A2. Your unit's location: \_\_\_\_\_ Province \_\_\_\_\_ City [Fill in the blank][\[Fill in the blank\]](#)

Please obtain the fill-in-the-blank question data by downloading the detailed data

A3, the nature of your organization: [Single choice question][\[Single choice question\]](#)

Option	Subtotal	proportion
Party and government organs	1	<div><div></div></div> 3.85%
2. Research and Design Unit	4	<div><div></div></div> 15.38%
3. Higher Education Institutions	0	<div><div></div></div> 0%
4. Primary and Secondary Education Institutions	0	<div><div></div></div> 0%
5. Medical and health institutions	0	<div><div></div></div> 0%
6. Other public institutions	1	<div><div></div></div> 3.85%
7. State-owned enterprises	15	<div><div></div></div> 57.69%
8. Private enterprises	4	<div><div></div></div> 15.38%
9. Sino-foreign joint ventures (Sino-foreign joint venture enterprises, Sino-foreign cooperative enterprises, wholly foreign-owned enterprises)	0	<div><div></div></div> 0%

10. Other enterprises	0	<div><div></div></div> 0%
11. Troops	0	<div><div></div></div> 0%
12. Rural administrative village	0	<div><div></div></div> 0%
13. Town and community	0	<div><div></div></div> 0%
14. Others	1	<div><div></div></div> 3.85%
The number of valid submissions for this question	26	

A4. The industry your unit is engaged in: [Single Choice Question] Note: Refer to "National Economic Industry Classification and Codes (GB/T 4754-2017)", National Economic Industry Classification.[\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Transportation, warehousing, and postal services;	0	<div><div></div></div> 0%
2. Mining industry;	0	<div><div></div></div> 0%
3. Manufacturing industry;	1	<div><div></div></div> 3.85%
4. Electricity, heat, gas, and water production and supply industry;	6	<div><div></div></div> 23.08%
5. Construction industry;	10	<div><div></div></div> 38.46%
6. Wholesale and retail trade;	0	<div><div></div></div> 0%
7. Agriculture, forestry, animal husbandry, and fishery;	0	<div><div></div></div> 0%
8. Accommodation and catering industry;	0	<div><div></div></div> 0%
9. Information transmission, software, and information technology services;	0	<div><div></div></div> 0%
10. Financial industry;	0	<div><div></div></div> 0%
11. Real estate industry;	1	<div><div></div></div> 3.85%

12. Leasing and business services;	0	<div><div></div></div> 0%
13. Scientific research and technical services industry;	3	<div><div></div></div> 11.54%
14. Water conservancy, environment, and public facilities management industry;	4	<div><div></div></div> 15.38%
15. Resident services, repair, and other service industries;	0	<div><div></div></div> 0%
16. Education;	0	<div><div></div></div> 0%
17. Health and Social Work;	0	<div><div></div></div> 0%
18. Culture, sports, and entertainment industry;	0	<div><div></div></div> 0%
19. Public administration, social security, and social organizations;	1	<div><div></div></div> 3.85%
20. International Organization;	0	<div><div></div></div> 0%
21. Army	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	

A5. The scale of your unit: [Single choice question][\[Single choice question\]](#)

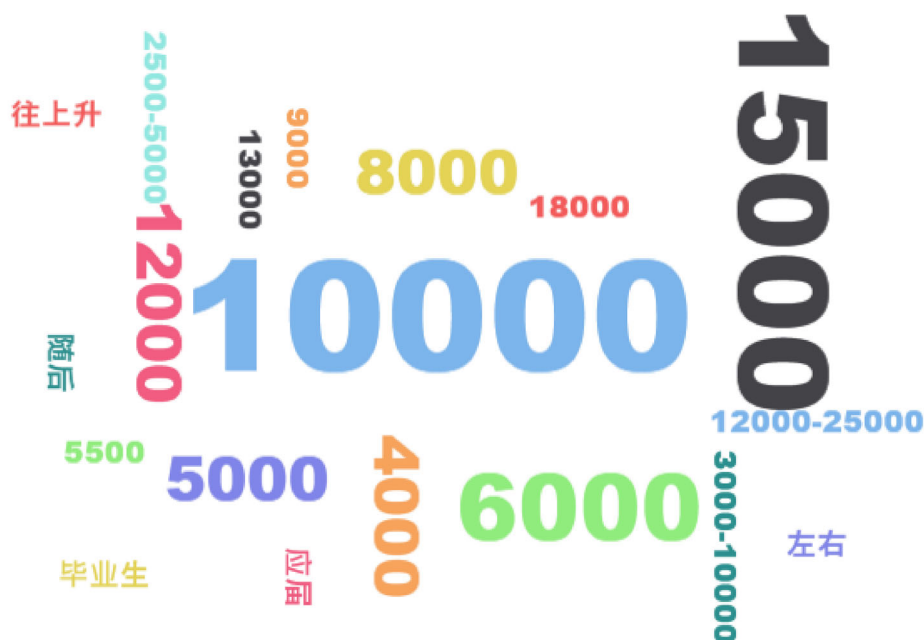
Option	Subtotal	proportion
1.50 people or fewer	3	<div><div></div></div> 11.54%
2.51-100 people	3	<div><div></div></div> 11.54%
3.101-200 people	1	<div><div></div></div> 3.85%
4.201-300 people	1	<div><div></div></div> 3.85%
5.301-1000 people	7	<div><div></div></div> 26.92%
6.1001-2000 people	1	

		<div><div></div></div> 3.85%
7.2001 people or more	10	<div><div></div></div> 38.46%
The number of valid submissions for this question	26	

A6. The nature of the work that our graduates engage in at your organization: [Multiple Choice][\[Multiple Choice\]](#)

Option	Subtotal	proportion
1. Project Manager	9	<div><div></div></div> 34.62%
2. Chief Engineer of the Project	8	<div><div></div></div> 30.77%
3. Project Supervisor	14	<div><div></div></div> 53.85%
4. Technician	21	<div><div></div></div> 80.77%
5. Other positions	9	<div><div></div></div> 34.62%
The number of valid submissions for this question	26	

A7. The average monthly income (before tax) of our school's graduates is approximately \_\_\_\_ yuan/month (monthly income includes salary, benefits that can be converted to cash, etc.).[\[Fill in the blank\]](#)



A8. The position of our school's graduates in your organization belongs to the company they are in: [Multiple choice question][Multiple choice question]

Option	Subtotal	proportion
1. Frontline employees	13	<div><div></div></div> 50%
2. Key employees	21	<div><div></div></div> 80.77%
3. Department Manager	8	<div><div></div></div> 30.77%
4. Project Responsibility	13	<div><div></div></div> 50%
5. Senior management personnel	6	<div><div></div></div> 23.08%
The number of valid submissions for this question	26	

A9. The development situation of the industry your unit is in is: [Single choice question][Single choice question]

Option	Subtotal	proportion
1. Rapid expansion period	0	<div><div></div></div> 0%
2. Expansion Period	5	<div><div></div></div> 19.23%

3. Stable Development Period	17	<div><div></div></div> 65.38%
4. Atrophic phase	4	<div><div></div></div> 15.38%
The number of valid submissions for this question	26	

A10. Your unit expects the number of recruits in 2023 to be planned compared to the recruitment situation in 2022: 【Single Choice Question】 [\[Single Choice Question\]](#)

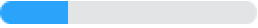


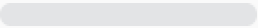
Option	Subtotal	proportion
1. Significant increase	0	<div><div></div></div> 0%
2. There is an increase.	4	<div><div></div></div> 15.38%
3. Basically flat	12	<div><div></div></div> 46.15%
4. There has been a decline.	8	<div><div></div></div> 30.77%
5. Significant decline	2	<div><div></div></div> 7.69%
The number of valid submissions for this question	26	

A11. Your unit has employed a total of graduates from our school's major in the past five years. [Single choice question][\[Single choice question\]](#)

Option	Subtotal	proportion
1.1-2 people	7	<div><div></div></div> 26.92%
2.3-5 people	8	<div><div></div></div> 30.77%
3.5 people and above	11	<div><div></div></div> 42.31%

The number of valid submissions for this question	26	
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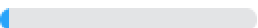
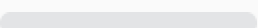
A12, The performance of graduates from this major at your unit: [Single choice question][\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very excellent	7	 26.92%
2. Excellent	14	 53.85%
3. Able to perform the job	5	 19.23%
4. Comparatively poor	0	 0%
The number of valid submissions for this question	26	

A12-1. What aspects do you think our school's Water Supply and Drainage Science and Engineering graduates need to improve in? [Fill in the blank] (A12 select "relatively poor" to fill in)[\[Fill in the blank\]](#)

Please obtain the fill-in-the-blank question data by downloading the detailed data

A13. Your organization's evaluation of the employed graduates in this major regarding their professional qualities: [Single choice question]  
[\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very satisfied	13	 50%
2. Fairly satisfied	12	 46.15%
3. Generally satisfied	1	 3.85%
4. Dissatisfied	0	 0%
The number of valid submissions for this question	26	

A13-1. What do you think are the shortcomings of our school's graduates in the field of Water Supply and Drainage Science and Engineering in terms of professional qualities: \_\_\_\_ 【Fill in the blank】  
(A13 choose "generally satisfied" or "dissatisfied")[\[Fill in the blank\]](#)

材料  
能力  
缺少

A14. Your organization’s evaluation of the employed graduates in this major regarding their comprehensive knowledge: [Single choice question][\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very satisfied	11	<div><div></div></div> 42.31%
2. Fairly satisfied	14	<div><div></div></div> 53.85%
3. Generally satisfied	1	<div><div></div></div> 3.85%
4. Dissatisfied	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	

A14-1. What do you think are the shortcomings of our school's graduates in the field of Water Supply and Drainage Science and Engineering in terms of comprehensive knowledge: \_\_\_\_ 【Fill in the blank】 (A14 choose "generally satisfied" or "dissatisfied")[\[Fill in the blank\]](#)



# 解决问题 在实践中

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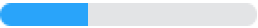
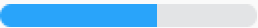
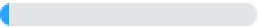
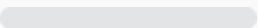
A15. Your organization's evaluation of the employed graduates in this field regarding their professional abilities: [Single choice question]  
[\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very satisfied	10	<div><div></div></div> 38.46%
2. Fairly satisfied	15	<div><div></div></div> 57.69%
3. Generally satisfied	1	<div><div></div></div> 3.85%
4. Dissatisfied	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	

A15-1. What do you think are the shortcomings of our school's graduates in the field of Water Supply and Drainage Science and Engineering in terms of professional abilities: \_\_\_\_ 【Fill in the blank】  
(A15 choose "generally satisfied" or "dissatisfied" to fill in)[\[Fill in the blank\]](#)

Please obtain the fill-in-the-blank question data by downloading the detailed data

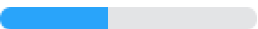

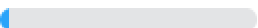
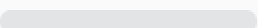
A16. Your unit's evaluation of the adaptability of the recruited graduates in this major: [Single choice question][\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very satisfied	9	 34.62%
2. Fairly satisfied	16	 61.54%
3. Generally satisfied	1	 3.85%
4. Dissatisfied	0	 0%
The number of valid submissions for this question	26	

A16-1. What do you think are the shortcomings of our school's graduates in the Water Supply and Drainage Science and Engineering program in terms of adaptability: \_\_\_\_ 【Fill in the blank】 (A16 choose "generally satisfied" or "dissatisfied" to fill in)[\[Fill in the blank\]](#)

Please obtain the fill-in-the-blank question data by downloading the detailed data

A17. Your unit's overall evaluation of our hospital in terms of talent cultivation and teaching: [Single choice question][\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very satisfied	11	 42.31%
2. Fairly satisfied	14	 53.85%
3. Generally satisfied	1	 3.85%
4. Dissatisfied	0	 0%
The number of valid submissions for this question	26	

A17-1. What do you think are the shortcomings of our school's College of Municipal and Surveying Engineering in terms of talent cultivation and teaching: \_\_\_\_ 【Fill in the blank】 (A17 choose "generally satisfied" or "dissatisfied" to fill in)[\[Fill in the blank\]](#)

Please obtain the fill-in-the-blank question data by downloading the detailed data

## II. Evaluation of the Rationality of Training Objectives

### Training Objectives for the Water Supply and Drainage Science and Engineering Major (2021 Edition)

This major aims to cultivate high-quality applied engineering talents in water supply and drainage science and engineering, who can adapt to the needs of China's new urbanization construction and rural revitalization strategy, align with regional economic and social development demands, and achieve comprehensive development in morality, intelligence, physical fitness, aesthetics, and labor.

Students will master the basic theoretical knowledge, engineering skills, and management methods of a virtuous social circulation process in urban water systems, possess abilities in teamwork, innovation, and self-directed learning, practice the core socialist values, have a sense of social responsibility and sustainable development concepts, and possess cultural literacy, professional ethics, and entrepreneurial awareness. They will be able to engage in design, construction, operation, management, and preliminary research and development work in fields such as water quality safety assurance, sewage treatment and resource recovery, comprehensive water environment remediation, building water supply and drainage, smart water management, and engineering management, serving as high-quality applied engineering talents in water supply and drainage science and engineering and related industries.

Students in this major are expected to achieve the following goals in about 5 years after graduation:


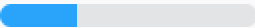
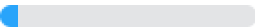
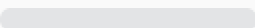
- (1) Can practice the core values of socialism, uphold the concept of sustainable development, actively fulfill social responsibilities, possess a sound personality and good humanistic and social science literacy, and adhere to professional ethics and engineering ethics standards.
- (2) can adapt to the development requirements of the field of water supply and drainage science and engineering, possess comprehensive application of relevant professional knowledge in water supply and drainage science and engineering, be

capable of engaging in design, construction, operation, management, and other work in related fields, have preliminary research and development capabilities, and have the ability to serve as an engineer or professional technical leader.


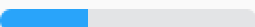
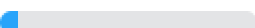
(3) has a good spirit of teamwork and certain organizational communication skills, capable of fulfilling team and management roles in water engineering project teams during planning, design, construction, operation, and management.

(4) Possess awareness of innovation, entrepreneurship, self-directed learning, and lifelong learning, able to continuously learn and apply new theories, methods, technologies, and equipment related to water supply and drainage science and engineering to solve complex engineering problems in related fields.

**B1. The existing training can meet the needs of the times: 【Multiple choice question】** [\[Multiple choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	16	 61.54%
2. Comply	8	 30.77%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

**B2. Existing training applicable to professional development: [Single choice question]**[\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	 57.69%
2. Comply	9	 34.62%
3. Basically meets	2	 7.69%

4. Not compliant	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	


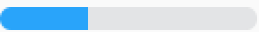
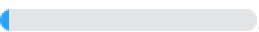
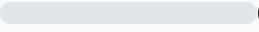
B3. The positioning of professional talent in the training objectives (high-quality applied engineering and technical talents in water supply and drainage science and engineering and related industries) and the school's positioning: 【Single choice question】 [\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	16	<div><div></div></div> 61.54%
2. Comply	8	<div><div></div></div> 30.77%
3. Basically meets	2	<div><div></div></div> 7.69%
4. Not compliant	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	


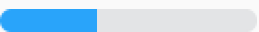
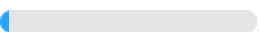
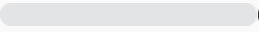
B4. The training objectives in the professional fields (water quality safety assurance, sewage treatment and resource utilization, comprehensive water environment management, building water supply and drainage, smart water management and engineering management, etc.) are clear and reasonable: [Single Choice Question][\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	<div><div></div></div> 57.69%
2. Comply	9	<div><div></div></div> 34.62%
3. Basically meets	2	<div><div></div></div> 7.69%
4. Not compliant	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	


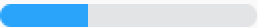
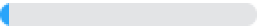
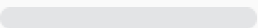
B5. Cultivation target occupational characteristics (engaged in design, construction, operation, management, and preliminary research and development) are clear and reasonable: [Single choice question][\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	16	 61.54%
2. Comply	9	 34.62%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	


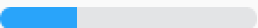
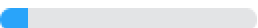
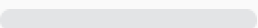
B6. The existing training objectives have significantly improved in terms of professional ability, competitiveness, and achievements compared to the graduation requirements at the time of graduation after 5 years of development: [Single Choice Question][\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	 57.69%
2. Comply	10	 38.46%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

B7. Please evaluate the reasonableness of achieving Goal 1 (being able to practice the core socialist values, adhere to the concept of sustainable development, actively fulfill social responsibilities, possess a sound personality and good humanistic and social science literacy, and abide by professional ethics and engineering ethics standards) based on your understanding of industry development, social needs, and corporate demands. [Single choice question][\[Single choice question\]](#)


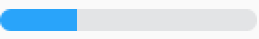

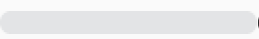
Option	Subtotal	proportion
1. Very suitable	16	 61.54%
2. Comply	9	 34.62%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

B8. Please evaluate the reasonableness of achieving goal 2 (being able to adapt to the development requirements of the field of water supply and drainage science and engineering, possessing comprehensive application of relevant professional knowledge in water supply and drainage science and engineering, being able to engage in design, construction, operation, management, etc. in related fields, having preliminary research and development capabilities, and being capable of serving as an engineer or professional technical leader) based on your understanding of industry development, social needs, and enterprise demands. [Single choice question][\[Single choice question\]](#)


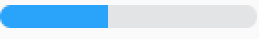
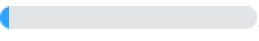
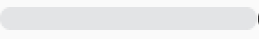
Option	Subtotal	proportion
1. Very suitable	15	 57.69%
2. Comply	8	 30.77%
3. Basically meets	3	 11.54%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

B9. Please evaluate the reasonableness of achieving Goal 3 (having a good team spirit and certain organizational communication skills, capable of fulfilling team and management roles in water engineering project teams during planning, design, construction, operation, and

management) based on your understanding of industry development, social needs, and corporate demands. [Single choice question][\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	16	 61.54%
2. Comply	8	 30.77%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

B10, please evaluate the reasonableness of achieving Goal 4 (having awareness of innovation, entrepreneurship, self-directed learning, and lifelong learning, being able to continuously learn and apply new theories, methods, technologies, and equipment related to water supply and drainage science and engineering to solve complex engineering problems in related fields) based on your understanding of industry development, social needs, and enterprise demands. 【Single choice question】 [\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	14	 53.85%
2. Comply	11	 42.31%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

B11. What are your comments or suggestions on the revision of the professional training program: \_\_\_\_\_ [Fill in the blank][\[Fill in the blank\]](#)



Please obtain the fill-in-the-blank question data by downloading the detailed data

### 3. Subjective evaluation of the achievement of training objectives

**Please answer the following questions based on the situation of students who have worked at your company for 5 years or more from our school: 5 years and above:**



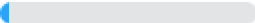
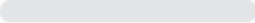
#### **Training Objectives for the Water Supply and Drainage Science and Engineering Major (2019 Edition)**

This major aims to cultivate talents that adapt to the needs of new urbanization construction and regional economic and social development, meet the social demand for engineering construction and management personnel, and promote comprehensive development in morality, intelligence, physical fitness, aesthetics, and labor. Students will master the basic theories, knowledge, and skills required for technical work in this field, possess the ability to engage in engineering design, implementation, management, utilization, and analysis related to the water supply and drainage industry, receive basic training as engineers, and develop good professional qualities, innovation and entrepreneurship abilities, and a lifelong learning awareness. Graduates will be high-quality applied talents capable of working in design departments, environmental protection departments, industrial and mining enterprises, economic management departments, and government departments in areas such as water supply and drainage engineering design, construction, operation, and management. Five years after graduation, they will have the ability to serve as intermediate engineers or professional technical leaders.


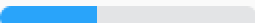
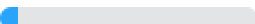
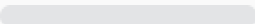
#### **Goal 1:**

Adapt to the needs of new urbanization construction and regional economic and social development, meet the social demand for engineering construction and management talents, and promote comprehensive development in morality, intelligence, physical fitness, aesthetics, and labor

C1. Adapt to the needs of new urbanization construction and regional economic and social development[Multiple choice question]

Option	Subtotal	proportion
1. Very suitable	13	 50%
2. Comply	12	 46.15%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	


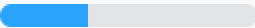
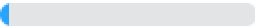
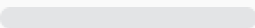
C2, moral, intellectual, physical, aesthetic, and labor development in an all-round way. [Multiple choice question][Multiple choice question]

Option	Subtotal	proportion
1. Very suitable	14	 53.85%
2. Comply	10	 38.46%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	


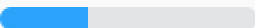
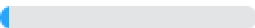
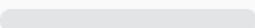
## Goal2:

Master the basic theories, knowledge, and skills required for engaging in professional technical work, and possess the ability to design, implement, manage, utilize, and analyze projects related to the water supply and drainage industry

C3. Master the natural science knowledge, professional knowledge, and skills required in the field of water supply and drainage science and engineering. [Multiple choice question][Multiple choice question]

Option	Subtotal	proportion
1. Very suitable	16	 61.54%
2. Comply	9	 34.62%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

C4. Possess the ability to engage in engineering design, implementation, management, utilization, and analysis related to the water supply and drainage industry. [Multiple choice question][\[Multiple choice question\]](#)

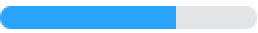
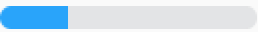
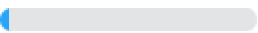
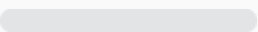
Option	Subtotal	proportion
1. Very suitable	16	 61.54%
2. Comply	9	 34.62%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

### Target3:

Possess good professional qualities, innovative and entrepreneurial abilities, and a lifelong learning awareness


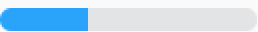
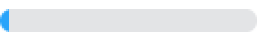
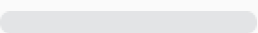
C5. Possess good professional qualities, innovative and entrepreneurial abilities, and a lifelong learning awareness. [Single choice question]  
[\[Single choice question\]](#)

Option	Subtotal	proportion
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1. Very suitable	18	 69.23%
2. Comply	7	 26.92%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	


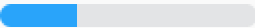
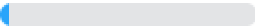
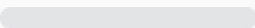
**Objective4:**To have the ability to work in areas such as design, construction, operation, and management of water supply and drainage engineering in design departments, environmental protection departments, industrial and mining enterprises, economic management departments, and government departments.

C6. Ability to engage in design, construction, operation, and management of water supply and drainage engineering[Multiple choice question]

Option	Subtotal	proportion
1. Very suitable	16	 61.54%
2. Comply	9	 34.62%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

**Goal5:**After five years of graduation, capable of serving as a mid-level engineer or professional technical leader.

C7. Possess the ability to serve as a mid-level engineer or professional technical leader. [Single choice question][Single choice question]

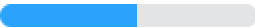
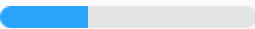
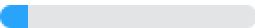
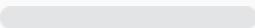
Option	Subtotal	proportion
1. Very suitable	17	 65.38%
2. Comply	8	 30.77%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

#### 4. Evaluation of Graduation Requirements Achievement

Please answer the following questions based on the situation of students who graduated from our school and worked at your company for about 1 year:

**1 Engineering Knowledge:** The ability to apply mathematics, natural sciences, engineering fundamentals, and specialized knowledge to solve complex engineering problems related to water supply and drainage science and engineering.

D1-1, Master relevant knowledge in mathematics, chemistry, and physics to lay the foundation for solving complex engineering problems in this field [Multiple Choice Question][\[Multiple Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	14	 53.85%
2. Comply	9	 34.62%
3. Basically meets	3	 11.54%
4. Not compliant	0	 0%

The number of valid submissions for this question	26	
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D1-2, master the basic engineering knowledge in fields such as engineering mechanics, engineering surveying, engineering drawing, civil engineering fundamentals, and electrical electronics, laying the foundation for solving complex engineering problems in this field

【Multiple choice question】 [\[Multiple choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	<div><div></div></div> 57.69%
2. Comply	9	<div><div></div></div> 34.62%
3. Basically meets	2	<div><div></div></div> 7.69%
4. Not compliant	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	


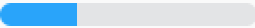
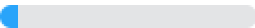
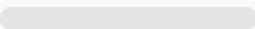
D1-3, master the basic knowledge of water analytical chemistry, hydraulics, water treatment biology, hydrology, and hydrogeology, and have the ability to apply relevant knowledge to solve complex engineering problems in this field [single choice question]

[\[single choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	<div><div></div></div> 57.69%
2. Comply	9	<div><div></div></div> 34.62%
3. Basically meets	2	<div><div></div></div> 7.69%
4. Not compliant	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	


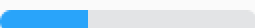
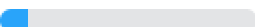
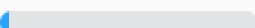
D1-4, master knowledge in water quality engineering, building water supply and drainage engineering, and water supply and drainage

pipeline systems, and be able to apply it to solve complex engineering problems. 【Multiple choice question】 [\[Multiple choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	16	 61.54%
2. Comply	8	 30.77%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

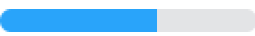
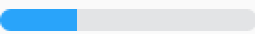
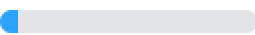
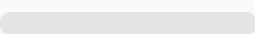
**2Problem Analysis: Able to apply the basic theories of mathematics, natural sciences, and the field of water supply and drainage science and engineering, identify, express, and systematically analyze complex engineering problems in this field through literature research, and obtain effective conclusions.**

D2-1, master the principles of natural sciences such as mathematics, chemistry, and university physics, and have the ability to identify and express key aspects of complex engineering problems; 【Single Choice Question】 [\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	13	 50%
2. Comply	9	 34.62%
3. Basically meets	3	 11.54%
4. Not compliant	1	 3.85%
The number of valid submissions for this question	26	

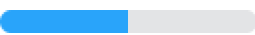
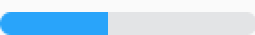
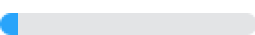
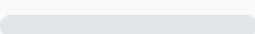
D2-2, master the basic theories and fundamental analysis methods of water supply and drainage science and engineering, and use literature

retrieval, data review, and other means to analyze and solve complex engineering problems in order to obtain effective solutions. 【Multiple choice question】 [\[Multiple choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	16	 61.54%
2. Comply	8	 30.77%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

**3、Design and develop solutions: the ability to apply learned knowledge to design solutions for complex engineering problems in the field of water supply and drainage science and engineering, design water supply and drainage engineering systems, units, or processes that meet specific needs, and consider economic, social, health, safety, legal, cultural, and environmental factors during the design phase, while also reflecting innovative awareness.**


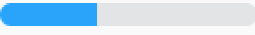
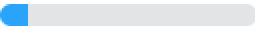
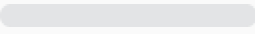
D3-1, able to proficiently master the calculation methods and processes of engineering planning and design in this field, design reasonable solutions for complex engineering problems, and ensure that the designed systems, units (components), or processes meet the specific needs of actual engineering;[\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	13	 50%
2. Comply	11	 42.31%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%




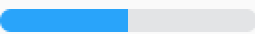
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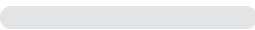
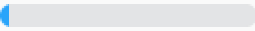
D3-2, able to reflect innovative awareness of new technologies, new materials, new solutions, etc. in the solutions to complex engineering problems in this field, and can comprehensively consider the constraints of social, economic, health, safety, legal, cultural, and environmental factors. [Single choice question][\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	13	 50%
2. Comply	10	 38.46%
3. Basically meets	3	 11.54%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	


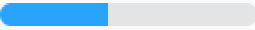
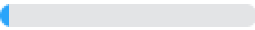
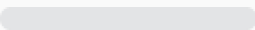
**4Research: The ability to study complex engineering problems in the field of water supply and drainage science and engineering based on scientific principles and using scientific methods, including designing experiments, analyzing and interpreting data, and synthesizing information, to arrive at reasonable and effective conclusions.**

D4-1, be familiar with the operation methods of experimental instruments and equipment related to the field of water supply and drainage science and engineering, and possess the awareness and skills to conduct experimental research aimed at solving complex engineering problems in this field; 【Single Choice Question】 [\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	12	 46.15%
2. Comply	13	 50%

3. Basically meets	0	 0%
4. Not compliant	1	 3.85%
The number of valid submissions for this question	26	

D4-2, the ability to choose research routes based on scientific principles and using scientific methods, design experimental plans, reasonably construct experimental systems, skillfully operate experimental devices, obtain experimental data, and analyze and process experimental data to draw reasonable and effective conclusions for solving complex engineering problems in this field. [Single choice question] [\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	14	 53.85%
2. Comply	11	 42.31%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

**5Use modern tools: the ability to develop, select, and use appropriate technologies, resources, modern engineering tools, and information technology tools for complex engineering problems, including the prediction and simulation of complex engineering issues, while understanding their limitations.**

D5-1, able to master the principles, methods, and limitations of commonly used modern instruments, information technology tools, engineering tools, and simulation software; **【Multiple Choice Question】** [\[Multiple Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	

		57.69%
2. Comply	9	34.62%
3. Basically meets	2	7.69%
4. Not compliant	0	0%
The number of valid submissions for this question	26	


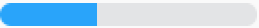
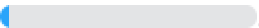
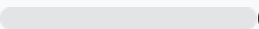
D5-2, in response to the need to solve complex engineering problems in this field, is able to accurately select and use the correct modern tools to address complex engineering issues, and to identify, calculate, predict, and simulate them, as well as possessing preliminary development capabilities for modern tools.[\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	57.69%
2. Comply	9	34.62%
3. Basically meets	2	7.69%
4. Not compliant	0	0%
The number of valid submissions for this question	26	


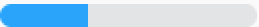
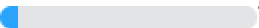
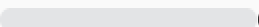
**6Engineering and Society: Understand the policies, laws, regulations, and standards related to water supply and drainage engineering, and be able to conduct reasonable analysis based on the background knowledge of water supply science and engineering for professional engineering practices and solutions to complex engineering problems, evaluate the impact on society, health, safety, law, and culture, and understand the social responsibilities that should be undertaken.**

D6-1, with a certain level of legal knowledge, can understand the impact of technical standards, laws and regulations, and cultural

knowledge related to this profession on engineering activities; **【Single Choice Question】** [\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	 57.69%
2. Comply	10	 38.46%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

D6-2, able to recognize, analyze, and evaluate the impact of engineering practices and complex engineering problem solutions in this field on society, health, safety, law, and culture, and understand the responsibilities that should be undertaken. **【Multiple choice question】** [\[Multiple choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	 57.69%
2. Comply	9	 34.62%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

**7Environmental and Sustainable Development: The ability to understand and evaluate the impact of engineering practices in the field of water supply and drainage science and engineering on the environment and social sustainability in complex engineering issues.**

D7-1, able to understand the concepts and connotations of environmental protection and sustainable development related to the engineering practice of this profession; **【Single Choice Question】**  
[\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	<div><div></div></div> 57.69%
2. Comply	10	<div><div></div></div> 38.46%
3. Basically meets	1	<div><div></div></div> 3.85%
4. Not compliant	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	

D7-2, able to analyze and evaluate the impact of engineering practices in this field on environmental protection and sustainable development regarding complex engineering problems. [Single choice question]  
[\[Single choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	16	<div><div></div></div> 61.54%
2. Comply	8	<div><div></div></div> 30.77%
3. Basically meets	2	<div><div></div></div> 7.69%
4. Not compliant	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	

**8Professional Standards: Possess a good understanding of the humanities and social sciences, as well as a strong sense of social responsibility, and be able to understand and adhere to engineering ethics and standards in engineering practice within this field.**

D8-1, understand knowledge of humanities and social sciences literacy, engineering professional ethics, and social responsibility; 【Single choice question】 [\[Single choice question\]](#)


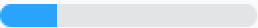
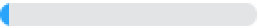
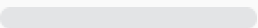
Option	Subtotal	proportion
1. Very suitable	13	50%
2. Comply	11	42.31%
3. Basically meets	2	7.69%
4. Not compliant	0	0%
The number of valid submissions for this question	26	

D8-2. Establish and practice the core socialist values, understand the social responsibility of engineers for public safety, health, and well-being, as well as environmental protection, and be able to consciously fulfill these responsibilities in engineering practice. 【Multiple choice question】 [\[Multiple choice question\]](#)


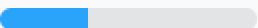
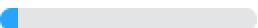
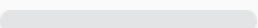
Option	Subtotal	proportion
1. Very suitable	15	57.69%
2. Comply	8	30.77%
3. Basically meets	3	11.54%
4. Not compliant	0	0%
The number of valid submissions for this question	26	

**9Personal and team: Able to take on the roles of individual, team member, and leader within a multidisciplinary team.**

D9-1, able to understand the intrinsic connections between the various disciplines involved in the water supply and drainage industry; 【Multiple Choice Question】 [\[Multiple Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	19	 73.08%
2. Comply	6	 23.08%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	


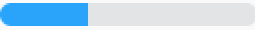
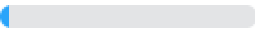
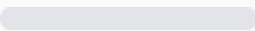
D9-2, able to complete work in the roles of individual, team member, and leader within a multidisciplinary team context. [Multiple choice question][\[Multiple choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	 57.69%
2. Comply	9	 34.62%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	


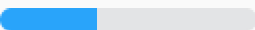
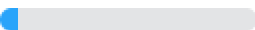
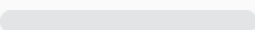
**10Communication: The ability to effectively communicate and interact with industry peers and the public on complex engineering issues, including writing reports and design documents, making presentations, and clearly expressing or responding to instructions. Also possesses a certain international perspective, capable of communicating and interacting in a cross-cultural context.**

D10-1, able to standardize the writing of practical reports such as experiments and internships in this field, clearly express personal opinions and design ideas, and effectively communicate and exchange

with industry peers using professional terminology; 【Single Choice Question】 [\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	16	 61.54%
2. Comply	9	 34.62%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

D10-2, possessing a certain international perspective, able to communicate and interact in a cross-cultural context. 【Multiple choice question】 [\[Multiple choice question\]](#)


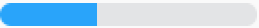
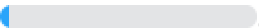
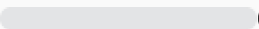
Option	Subtotal	proportion
1. Very suitable	14	 53.85%
2. Comply	10	 38.46%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

**11Project Management: Understand and master the principles of engineering management and economic decision-making methods, and be able to apply them in a multidisciplinary environment related to water supply and drainage science and engineering.**


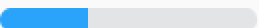
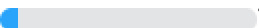
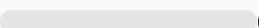
D11-1, understand and master the principles of engineering management and economic decision-making methods in water supply



and drainage science and engineering; **【Single Choice Question】**  
[\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	 57.69%
2. Comply	10	 38.46%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

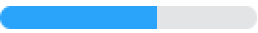
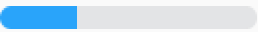
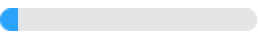
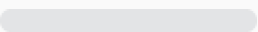
D11-2, able to apply engineering management principles and economic decision-making methods in a multidisciplinary environment. **[Multiple choice question]**  
[\[Multiple choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	15	 57.69%
2. Comply	9	 34.62%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	


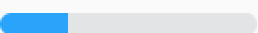
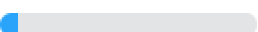
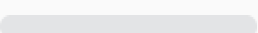
**12Continuous Learning: Having the awareness of self-directed learning and lifelong learning, and the ability to continuously expand knowledge and adapt to social development.**

D12-1, having the awareness of self-directed learning and lifelong learning; **【Multiple Choice Question】** [\[Multiple Choice Question\]](#)

Option	Subtotal	proportion
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1. Very suitable	16	 61.54%
2. Comply	8	 30.77%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

D12-2, has the ability to continuously learn and adapt to development.  
**【Multiple choice question】** [\[Multiple choice question\]](#)

Option	Subtotal	proportion
1. Very suitable	17	 65.38%
2. Comply	7	 26.92%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

**5. Feedback on the Curriculum System (Please answer the following questions based on your understanding of enterprise needs and professional positioning)**

E1. Do you think the subject education courses offered in the Water Supply and Drainage Science and Engineering program (such as "Advanced Mathematics," "Water Analytical Chemistry," etc.) can meet the work needs of graduates after graduation? **[Single Choice Question]**  
[\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Very suitable	13	 50%
2. Comply	10	

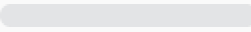
		<div><div></div></div> 38.46%
3. Basically meets	3	<div><div></div></div> 11.54%
4. Not compliant	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	

E2. Do you think the specialized education courses offered in the Water Supply and Drainage Science and Engineering program (such as "Water Supply and Drainage Pipeline Network System," "Water Quality Engineering," etc.) can meet the work needs of graduates after they graduate? [Single Choice Question][\[Single Choice Question\]](#)

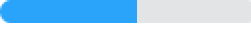
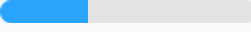
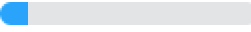
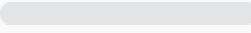
Option	Subtotal	proportion
1. Very suitable	16	<div><div></div></div> 61.54%
2. Comply	8	<div><div></div></div> 30.77%
3. Basically meets	2	<div><div></div></div> 7.69%
4. Not compliant	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	

E3, do you think the practical teaching components of the Water Supply and Drainage Science and Engineering program (such as "Water Supply Pipeline Network Course Design," "Building Water Supply and Drainage Course Design," etc.) can meet the work needs of graduates after graduation? [Single Choice Question][\[Single Choice Question\]](#)


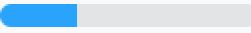
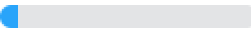
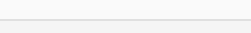
Option	Subtotal	proportion
1. Very suitable	18	<div><div></div></div> 69.23%
2. Comply	6	<div><div></div></div> 23.08%
3. Basically meets	2	<div><div></div></div> 7.69%

4. Not compliant	0	 0%
The number of valid submissions for this question	26	

E4. Do you think that general education courses in the humanities and social sciences for the Water Supply and Drainage Science and Engineering major (such as "Basic Principles of Marxism," "Ethics and Rule of Law," etc.) can reflect the cultivation of the ability to consider various constraints such as economic, environmental, legal, and ethical factors in engineering design?[[Single Choice Question](#)]

Option	Subtotal	proportion
1. Very suitable	14	 53.85%
2. Comply	9	 34.62%
3. Basically meets	3	 11.54%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

E5. Do you think the curriculum of the Water Supply and Drainage Science and Engineering program meets the talent needs of the organization? [Single choice question][[Single choice question](#)]

Option	Subtotal	proportion
1. Very suitable	16	 61.54%
2. Comply	8	 30.77%
3. Basically meets	2	 7.69%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

E6. Do you think the curriculum of the Water Supply and Drainage Science and Engineering program can support graduates in completing their work well? [Single choice question][\[Single choice question\]](#)

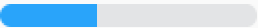
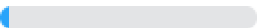
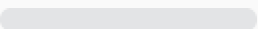
Option	Subtotal	proportion
1. Very suitable	16	<div><div></div></div> 61.54%
2. Comply	8	<div><div></div></div> 30.77%
3. Basically meets	2	<div><div></div></div> 7.69%
4. Not compliant	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	

E7. Do you think the training in basic knowledge for the Water Supply and Drainage Science and Engineering major is reasonable? [Single choice question][\[Single choice question\]](#)


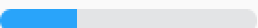
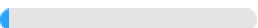
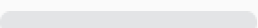
Option	Subtotal	proportion
1. Very suitable	16	<div><div></div></div> 61.54%
2. Comply	9	<div><div></div></div> 34.62%
3. Basically meets	1	<div><div></div></div> 3.85%
4. Not compliant	0	<div><div></div></div> 0%
The number of valid submissions for this question	26	

E8. Do you think the training of basic skills in the field of Water Supply and Drainage Science and Engineering is reasonable? [Single Choice Question][\[Single Choice Question\]](#)


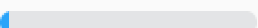
Option	Subtotal	proportion
1. Very suitable	15	<div><div></div></div> 57.69%

2. Comply	10	 38.46%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

E9. Do you think the training of the Water Supply and Drainage Science and Engineering major in terms of professional ethics and professional quality is reasonable? [Single choice question][\[Single choice question\]](#)

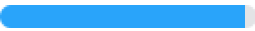
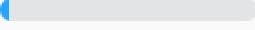
Option	Subtotal	proportion
1. Very suitable	17	 65.38%
2. Comply	8	 30.77%
3. Basically meets	1	 3.85%
4. Not compliant	0	 0%
The number of valid submissions for this question	26	

E10. Do you think the major of Water Supply and Drainage Science and Engineering can effectively cultivate students' innovation and entrepreneurship abilities? [Single Choice Question][\[Single Choice Question\]](#)

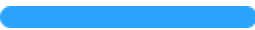
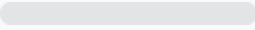
Option	Subtotal	proportion
1. Yes	25	 96.15%
2. No	1	 3.85%
The number of valid submissions for this question	26	

E11. Do you think the Water Supply and Drainage Science and Engineering program can effectively cultivate students' practical


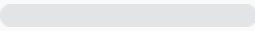
abilities? [Single Choice Question][\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Yes	25	 96.15%
2. No	1	 3.85%
The number of valid submissions for this question	26	

E12. Do you think the major of Water Supply and Drainage Science and Engineering can effectively cultivate students' ability for lifelong learning? 【Single Choice Question】 [\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Yes	26	 100%
2. No	0	 0%
The number of valid submissions for this question	26	

E13. Do you think that the major of Water Supply and Drainage Science and Engineering can broaden students' knowledge horizons? [Single Choice Question][\[Single Choice Question\]](#)

Option	Subtotal	proportion
1. Yes	26	 100%
2. No	0	 0%
The number of valid submissions for this question	26	

E14. What do you think are the shortcomings in the training of students in the Water Supply and Drainage Science and Engineering major: \_\_\_\_\_[\[Fill in the blank\]](#)

Please obtain the fill-in-the-blank question data by downloading the detailed data

E15. What additional courses do you think should be added to the Water Supply and Drainage Science and Engineering program at Hunan University of Cities? \_\_\_\_\_ 【Fill in the blank】 [\[Fill in the blank\]](#)

Please obtain the fill-in-the-blank question data by downloading the detailed data

E16. What courses do you think should be reduced in the Water Supply and Drainage Science and Engineering program at Hunan University of Urban Construction: \_\_\_\_\_ [Fill in the blank][\[Fill in the blank\]](#)

Please obtain the fill-in-the-blank question data by downloading the detailed data



Dear students:

Hello!

Thank you for participating in this survey. This questionnaire mainly aims to understand graduates' perceptions of the achievement of professional training objectives and their feedback on professional talent cultivation and teaching management services. It will provide a reference for the college to improve talent cultivation and teaching services. Please answer truthfully and seriously. The questionnaire is anonymous and will be kept strictly confidential; the results will only be used for the college's analysis and research, so please feel free to respond. We sincerely appreciate your support and cooperation!

### 1. Career Development Status

A1Your gender: **【Multiple choice question】**

1. Male
2. Female

A2What year did you graduate:。

A3Your place of employment:\_\_\_\_Province\_\_\_\_City.

A4The relevance of your work to your field of study: **【Multiple choice question】**

1. Very relevant
2. Comparative relevance
3. General
4. Relatively unrelated
5. Irrelevant

A5、Your current employment status: **【Multiple choice question】**

1. Work
2. Self-employment
3. Freelancing
4. Continuingto pursue further studies
5. Unemployed

1、Work situation (A5Select “1.Work” or “3.Freelancer” respondents)

A5-1What industry are you currently employed in: (A4Answer excluding5)  
**【Single choice question】**

Note: Refer to "National Economic Industry Classification and Codes (GB/T 4754-2017)", National Economic Industry Classification.

1. Transportation, warehousing, and postal services;
2. Mining industry;
3. Manufacturing;
4. Electricity, heat, gas, and water production and supply industry;
5. Construction Industry;
6. Wholesale and retail trade;
7. Agriculture, forestry, animal husbandry, and fishery;
8. Accommodation and food services;
9. Information transmission, software and information technology services;
10. Financial industry;
11. Real estate;
12. Rental and business services;
13. Scientific research and technical services industry;
14. Water conservancy, environment, and public facilities management industry;
15. Resident services, repair, and other service industries;
16. Education;
17. Health and social work;
18. Culture, sports, and entertainment industry;
19. Public administration, social security, and social organizations;
20. International organizations;
21. Army

A5-2 Your current occupation: (A4 excluding 5 please answer) **【Single choice question】**

1 Technical personnel related to the field of water supply and drainage science and engineering;

2 Technical personnel related to the field of non-drainage science and engineering;

2.1 Civil Servants;

2.2 Scientific Researchers

2.3 Agricultural, forestry, animal husbandry, and fishery technicians;

2.4 Health professionals;

2.5 Economic business personnel;

2.6 Financial business personnel;

2.7 Legal professionals;

2.8 Teaching staff;

- 2.9Literary and artistic workers;
- 2.10 Sports staff;
- 2.11News publishing and cultural workers;
- 2.12Other professional technical personnel;
- 2.13Staff and relevant personnel;
- 2.14Business and service personnel;
- 2.15Production and transportation equipment operators;
- 2.16Soldiers;
- 2.17Other Personnel

A5-3The nature of your current employment unit: 【A4Answer excluding5as a single choice question】

- 11. Party and government organs
- 2. Research and Design Unit
- 3. Higher Education Institutions
- 4.Primary and Secondary Education Institutions
- 5. Medical and health institutions
- 6. Other public institutions
- 7. State-owned enterprises
- 8.Private enterprises

**9. Sino-foreign joint ventures (Sino-foreign joint venture enterprises, Sino-foreign cooperative enterprises, wholly foreign-owned enterprises)**

- 10. Other enterprises
- 11. Troops
- 12. Rural administrative village
- 13. Town and community
- 14.Others

A5-4, Your current job position: [Answer from A4 excluding 5, single choice question]

- 1.Unit senior leadership/management personnel
- 2.Middle-level leaders/Managers
- 3.Unit grassroots leaders/management personnel
- 4.Ordinary employees or others

A5-5Your current job title; 【Multiple choice question】

- 1.Senior Professional Title
- 2.Intermediate Professional Title

3. Junior Professional Title

4. The unit did not conduct a title evaluation/Other

A5-6 Your average annual income (before tax) at work is approximately ten thousand yuan/year (income includes salary, bonuses, stock options, and benefits that can be converted to cash, etc.) [Fill in the blank]

A5-7, you think how is the development situation of this major? **【Multiple choice question】**

1. Very good

2. Better

3. General

4. Not very good

5. Very bad

A5-8, Your current main area of work is: **【Multiple Choice Question】**

1. Water Quality Safety Assurance

2. Wastewater Treatment and Resource Recovery

3. Comprehensive Water Environment Improvement

4. Building Water Supply and Drainage

5. Smart Water Management and Engineering

A5-9 Your main job nature now is: **【Multiple Choice】**

1. Design

2. Construction

3. Operation

4. Management

5. Research and Development

A5-10 What roles have you taken on in your unit: **【Multiple choice question】**

1. Project Leader

2. Key Technical Personnel

3. General Participants

4. Never participated

A5-11 After graduation, did you join an industry association/society, or hold any social positions:

1. is

2. No

A5-12 Social part-time jobs you have held include: (A5-11 Select “1. Yes” respondents) **【Single choice question】**

1. County-level association members
2. City-level Association Members
3. Provincial Association Member
4. Members of national and international associations
5. Others

A5-13, have you published any papers (including accepted ones) after graduation: **【Multiple choice question】**

1. Authoritative or influential journals
2. Core Journals
3. Regular journals or conference papers
4. Has not published any papers

A5-14 Have you applied for a patent after graduation? **【Multiple choice question】**

1. Invention Patent
2. Utility Model Patent
3. Design Patent
4. Has not applied for a patent

A5-15, Your current English level is: **【Multiple choice】**

1. CET-6
2. English Level Four
3. No grading
4. Others

A5-16 Have you obtained the engineer qualification? **【Multiple choice question】**

1. Professor-level Senior Engineer
2. Senior Engineer
3. Intermediate Engineer
4. Did not obtain engineer qualification

A5-17, the name of the industry qualification certificate you obtained is\_\_\_\_\_. (A5-16 Choose “1.2.3” for those who answered) **【Fill in the blanks】**

A5-18 Among the following skills related to engineers, which one do you think you are currently strongest in\_\_\_\_\_, and which one do you think you are currently weakest in\_\_\_\_\_. **【Multiple choice question】**

1. Mathematics and Natural Sciences
2. Engineering Fundamentals and Professional Knowledge
3. Humanities and Social Sciences
4. Design/Development

- 5.Engineering Economics
- 6.Engineering Tools
- 7.Experiment/Research
8. Identification, Analysis and Resolution
9. Professional Quality/Ability
10. Social Impact
11. Public Safety
12. Engineering Law
13. Engineering Risks and Reliability
14. Sustainable Development and Environmental Impact
15. Engineering Ethics
16. Professional Qualities
17. Team Organization Management
18. Teamwork/Collaboration
19. Communication and Interaction
20. International Perspective
21. Project Management and Organization
22. Continuous Learning

## 2、Unemployment Status 【A5Select “5.Unemployed” population answered this section】

A5-19Have you been unemployed since graduation? 【Multiple choice question】

- 1.I haven't looked for a job and haven't been employed.
- 2.Looked for a job, but have notfound employment
- 3.Previously employed

A5-20What are the reasonsyou have not been employed? (A5-19Please select “1” to answer this question)

1. Personal interest reasons
2. Other arrangements besides work
3. No suitable job unit
4. Others

A5-21What difficulties have you encountered while job hunting? (A5-19Select “2” to answer this question)

1. Industry development is sluggish
2. Lack of personal skills
3. Bad luck
4. The school's reputation is not strong enough

5. Others

A5-22 What is the reason for your resignation? (A5-19 Select "3" to answer this question)

1. Industry/Job mismatch
2. Lack of personal skills
3. Work Status/Environmental Inadaptability
4. Other arrangements besides work
5. Others

A5-23 What situation do you currently belong to? **【Multiple choice question】**

1. Not looking for a job at the moment
2. Prepare for the entrance exam
3. Preparing to study or work abroad
4. Prepare to participate in public servant and public institution recruitment exams
5. Prepare for military enlistment
6. The entrepreneurial project and direction have been determined, and various preliminary preparations and construction work for the startup are underway.
7. Employment intention has been confirmed, and an agreement or contract is being prepared for signing soon.
8. Selecting employment unit
9. Others

**Graduates who are continuing their studies situation 【A5 choose "4 are continuing their studies" group returns**

**Answer this part** A5-24、What do you think about the current admission results for further studies? **【Multiple choice question】**

1. Very satisfied
2. Relatively Satisfied
3. Basically Satisfied
4. Relatively dissatisfied
5. Dissatisfied

A5-25 The main reason you chose to continue your studies is: **【Multiple choice question】**

1. Interested in the profession and studying in depth
2. Enhancing Comprehensive Abilities
3. Increase employment capital and stand at a higher job-seeking point
4. Delaying the difficulties of facing employment
5. Others

A5-26Your current stage of study is:

Master's degree

2. Doctorate

3. Postdoctoral Research

A5-27Have you had any work experience before advancing your studies?

1. Have work experience

2. Never worked before

A5-28, you are currently continuing your studies in a major that is related to your undergraduate major: **【Multiple choice question】**

1. Consistency

2. Related

3. Irrelevant

A5-29The main reason you changed your major is: **【Multiple Choice】** (A5-28Select "3" people answered this question)

1. Out of personal interest

2. Good employment prospects

3. Low difficulty in obtaining

4. Low study pressure

5. Volunteer external adjustment

6. Others

A5-30What are your options for further study?

1. Domestic Higher Education

2. Studying Abroad

2. Self-evaluation of professional competence (subjective evaluation of abilities)

Water Supply and Drainage Science and Engineering Program Training  
Objectives (2019 Edition)

This major aims to cultivate talents that adapt to the needs of new urbanization construction and regional economic and social development, meet the social demand for engineering construction and management personnel, and achieve comprehensive development in morality, intelligence, physical fitness, aesthetics, and labor. Students will master the basic theories, knowledge, and skills required for technical work in this field, possess the ability to engage in engineering design, implementation, management, utilization, and analysis related to the water supply and drainage industry, receive basic training as engineers, and develop good professional qualities, innovation and entrepreneurship abilities, and a lifelong learning awareness. They will



be high-quality applied talents capable of working in design departments, environmental protection departments, industrial and mining enterprises, economic management departments, and government departments in areas such as water supply and drainage engineering design, construction, operation, and management. Five years after graduation, they will have the ability to serve as intermediate engineers or professional technical leaders.

1. Ability Achievement Evaluation

**B1. Master the basic theories, knowledge, and skills required for engaging in professional technical work: [Multiple choice question]**

- 1. Very suitable
- 2. complies
- 3. Basically meets
- 4. Not compliant

**B2、engaged in engineering design, implementation, management, utilization, and analysis capabilities related to the water supply and drainage industry: 【Multiple Choice Question】**

- 1. Very suitable
- 2. complies
- 3. Basically meets
- 4. Not compliant

**B3、good professional qualities, innovation and entrepreneurship abilities, and awareness of lifelong learning: 【multiple choice question】**

- 1. Very suitable
- 2. complies
- 3. Basically meets
- 4. Not compliant

**B4、high-quality applied talents engaged in the design, construction, operation, and management of water supply and drainage engineering: 【Multiple Choice Question】**

- 1. Very suitable
- 2. complies
- 3. Basically meets
- 4. Not compliant

**B5、has the ability to serve as a mid-level engineer or professional technical leader: 【Multiple Choice Question】**

- 1. Very suitable

2. complies
3. Basically meets
4. Not compliant

## 2. Evaluation of Achievement of Training Objectives

### Goal1: **Professional Qualities**

Decomposed into “humanities and social sciences literacy” and  
“professional ethics” two ability assessment points.

B6 In your professional work, can you consider factors such as philosophy and sociology: **【Multiple choice question】**

1. Completely able to consider
2. Basic considerations
3. Partial Consideration
4. Not considered

B7、You can apply knowledge related to economics, management, and other areas beyond technical knowledge in your work. **【Multiple Choice Question】**

1. Very suitable
2. complies
3. Basically meets
4. Not compliant

B8 In your work you take the public interest as the highest goal. **【Multiple choice question】**

1. Very suitable
2. complies
3. Basically meets
4. Not compliant

B9 You will pay attention to the existing laws and regulations related to the business. **【Multiple choice question】**

1. Very suitable
2. complies
3. Basically meets
4. Not compliant

B10, in the workplace you are able to adhere to the principles of public safety, health, and well-being, take responsibility for engineering decisions, and disclose factors that may harm the public or the environment. **【Multiple choice question】**

1. Very suitable

- 2. complies
- 3. Basically meets
- 4. Not compliant

## Goal2: Engineering Capability

**Proficiently master the natural science knowledge, professional knowledge, and skills required in the field of water supply and drainage science and engineering, and be able to apply professional engineering principles and techniques to design feasible and reasonable solutions for complex engineering problems**

B11You can proficiently master mathematics, natural sciences, engineering fundamentals, and professional foundational knowledge, and in practical work, you can comprehensively mobilize the knowledge you have learned to understand, analyze, and address problems. [Single Choice Question]

- 1. Very suitable
- 2. complies
- 3. Basically meets
- 4. Not compliant

B12, you can analyze and solve problems through knowledge of water supply and drainage science and engineering, identifying the essence of the problem through phenomena.. [Multiple choice question]

- 1. Very suitable
- 2. complies
- 3. Basically meets
- 4. Not compliant

B13When encountering problems during work or project processes, Youare usually able to apply your professional knowledge, work experience, and various advanced technical concepts to analyze the problems and propose solutions. [Multiple Choice Question]

- 1. Very suitable
- 2. complies
- 3. Basically meets
- 4. Not compliant

B14, You are able to flexibly apply knowledge of water supply and drainage science and engineering to solvecomplex engineering problems inthe field of water supply and drainage engineering. 【Multiple Choice Question】

- 1. Very suitable
- 2. complies
- 3. Basically meets
- 4. Not compliant

### **Objective3: Industry Competition**

B15、can perform job tasks and receive positive feedback from the outside.

【Multiple Choice Question】

1. Very suitable
2. complies
3. Basic compliance
4. Not compliant

B16、you can adapt to industry market demands and technological developments, gaining a competitive advantage in the industry market. 【Multiple Choice Question】

1. Very suitable
2. complies
3. Basically meets
4. Not compliant

### **Goal4: Collaborative Communication**

B17 Can you achieve the operation management and goal realization of engineering projects by organizing team members and coordinating external resources?

【Single choice question】

1. Very suitable
2. complies
3. Basically meets
4. Not compliant

B18 You always align with the team's goals, support team decisions, share information, and adjust your position for the benefit of the team.

1. Very suitable
2. complies
3. Basically meets
4. Not compliant

B19 You are able to integrate, lead, and drive team coordination, organization, and project implementation. [Single choice question]

1. Very suitable
2. complies
3. Basically meets
4. Not compliant

B20、can effectively communicate and exchange ideas with other departments, partners, and owners regarding project development. 【Single choice question】

1. Very suitable
2. complies

3. Basically meets

4. Not compliant

### **Goal5: Lifelong Learning**

B21 You can continuously learn relevant knowledge in the field of water supply and drainage science and engineering through various channels such as books, the internet, workshops, seminars, or joining professional organizations, and continuously improve your professional skills. 【Multiple choice question】

1. Very suitable

2. complies

3. Basically meets

4. Not compliant

B22、You are capable of handling planning and engineering design, construction, operation and management, technical consulting, product development, and other tasks in the field of drainage science and engineering or related engineering fields based on your own learning and work experience. 【Multiple Choice Question】

1. Very suitable

2. complies

3. Basically meets

4. Not compliant

B23、actively learns new technologies and knowledge in work to improve one's professional quality and ability. 【Multiple Choice Question】

1. Very suitable

2. complies

3. Basically meets

4. Not compliant

Three, on the current evaluation of training objectives

#### **Water Supply and Drainage Science and Engineering Program Training Objectives (2021 Edition)**

This major aims to cultivate talents who can adapt to the new urbanization construction and rural revitalization strategy in our country, meet the needs of regional economic and social development, and achieve comprehensive development in morality, intelligence, physical fitness, aesthetics, and labor. They should master the basic theoretical knowledge, engineering skills, and management methods of a sound social circulation process in urban water systems. They should possess the ability for teamwork, innovation, and self-directed learning, practice the core socialist values, have a sense of social responsibility and sustainable development concepts, and possess cultural literacy, professional ethics, and entrepreneurial awareness. They will be able to engage in design, construction, operation, management, and preliminary

research and development work in areas such as water quality safety assurance, sewage treatment and resource utilization, comprehensive water environment management, building water supply and drainage, smart water management, and engineering management, serving as high-quality applied engineering and technical talents in the field of water supply and drainage science and engineering and related industries.

Students in this major are expected to achieve the following goals in about 5 years after graduation:

(1) Can practice the core values of socialism, uphold the concept of sustainable development, actively fulfill social responsibilities, possess a sound personality and good humanistic and social science literacy, and adhere to professional ethics and engineering ethical standards..

(2) can adapt to the development requirements of the field of water supply and drainage science and engineering, possess comprehensive application of relevant professional knowledge in water supply and drainage science and engineering, be capable of engaging in design, construction, operation, management, and other work in related fields, have preliminary research and development capabilities, and have the ability to serve as an engineer or professional technical leader.

(3) has a good spirit of teamwork and certain organizational communication skills, capable of fulfilling team and management roles in water engineering project teams during planning, design, construction, operation, and management.

(4) Possess awareness of innovation, entrepreneurship, self-directed learning, and lifelong learning, able to continuously learn and apply new theories, methods, technologies, and equipment related to water supply and drainage science and engineering to solve complex engineering problems in related fields.

C1, existing training can meet the needs of the times: [Single choice question]

1. Very suitable
2. complies
3. Basically meets
4. Not compliant

C2 Current training applicable to professional development: [Single choice question]

1. Very suitable
2. complies
3. Basically meets
4. Not compliant

C3、The positioning of professional talent in the training objectives (high-quality applied engineering and technical talents in water supply and drainage science and engineering and related industries) and the school's positioning: **【Single choice question】**

1. Very suitable
2. complies

3. Basically meets

4. Not compliant

C4、The training objectives in the professional field (water quality safety assurance, wastewater treatment and resource utilization, comprehensive water environment management, building water supply and drainage, smart water management and engineering management, etc.) are clearly reasonable: [Single choice question]

1. Very suitable

2. complies

3. Basically meets

4. Not compliant

C5、Cultivation target career characteristics (engaged in design, construction, operation, management, and preliminary research and development) are clear and reasonable: [Single choice question]

1. Very suitable

2. complies

3. Basically meets

4. Not compliant

C6 Compared to the graduation requirements at the time of graduation, the existing training objectives have significantly improved in terms of professional ability, competitiveness, and achievements through 5 years of development: 【Single choice question】

1. Very suitable

2. complies

3. Basically meets

4. Not compliant

C7 Please evaluate the reasonableness of achieving the goal 5 based on your actual work situation and enterprise needs around 1 (being able to practice the core values of socialism, adhering to the concept of sustainable development, actively fulfilling social responsibilities, possessing a sound personality and good humanistic and social science literacy, and adhering to professional ethics and engineering ethics standards) 【Single choice question】

1. Very suitable

2. complies

3. Basically meets

4. Not compliant

C8 Please evaluate the reasonableness of achieving the ability to meet the goals 5 years of actual work experience and enterprise needs 2 (able to adapt to

the development requirements of the field of water supply and drainage science and engineering, possessing comprehensive application of relevant professional knowledge in water supply and drainage science and engineering, capable of engaging in design, construction, operation, management, etc. in related fields, possessing preliminary research and development capabilities, and able to serve as an engineer or professional technical leader)

**reasonableness. [Single choice question]**

1. Very suitable
2. complies
3. Basically meets
4. Not compliant

C9 Please evaluate the reasonableness of achieving the goal 5 based on your actual work experience of about 3 (having good teamwork spirit and certain organizational communication skills, capable of fulfilling team and management roles in engineering planning, design, construction, operation, and management in water engineering project teams) **【Single Choice Question】**

1. Very suitable
2. complies
3. Basically meets
4. Not compliant

C10 Please evaluate the reasonableness of achieving the goal 5 based on your actual work experience of about 4 years and the needs of the enterprise (with awareness of innovation, entrepreneurship, self-learning, and lifelong learning, capable of continuously learning and applying new theories, methods, technologies, and equipment related to water supply and drainage science and engineering to solve complex engineering problems in related fields) **【Single choice question】**

1. Very suitable
2. complies
3. Basically meets
4. Not compliant

C11、What are your comments or suggestions on the revision of the professional training program:\_\_\_\_\_ **【Fill in the blank】**

#### Part Four Opinions and Suggestions for the School

##### 1. School infrastructure

D1, classrooms, laboratories, and equipment meet the teaching needs in terms of quantity and functionality. **【Multiple Choice Question】**

1. Very suitable



2.complies

3.Basically meets

4.Not compliant

D2 has good management, maintenance, and updating mechanisms for laboratories and equipment, allowing students to use them conveniently. **【Multiple Choice Question】**

1.Very suitable

2.complies

3.Basically meets

4.Not compliant

D3, cooperate with enterprises to jointly build internship and training bases, providing students with a platform for practical participation during the teaching process. **【Multiple Choice Question】**

1.Very suitable

2.complies

3.Basically meets

4.Not compliant

D4、computer, network, and library resources can meet the daily needs of learning, teaching, and research. **【Multiple choice question】**

1.Very suitable

2.complies

3.Basically meets

4.Not compliant

D5The school can provide the necessary infrastructure to meet graduation requirements, including effective support for students' practical activities and innovative activities. **【Multiple Choice Question】**

1.Very suitable

2.complies

3.Basically meets

4.Not compliant

D6 The teaching management and service standards of the school can effectively support the achievement of professional graduation requirements. **【Multiple Choice Question】**

1.Very suitable

2.complies

3.Basically meets

4.Not compliant

**Two、ProfessionalTalent Development**

D7What is your overall satisfaction withprofessionaleducation and teaching:

【Multiple choice question】

1. Very satisfied
2. Fairly Satisfied
3. General
4. Relatively dissatisfied

D8What is your satisfaction level with theprofessionalpractice teaching component (including experimental teaching, internships, etc.)? 【Multiple choice question】

1. Very satisfied
2. Fairly Satisfied
3. General
4. Relatively dissatisfied

D9What type of practical teachingdo you thinkneeds to be strengthened?

【Multiple choice question】

1. Course Design
2. On-campus Professional Practice/Internships and Training/Course Experiments
3. Short-term (1-2 weeks) off-campus internship/apprenticeship/social survey, etc.
4. Graduation Internship (such as professional internship, etc.)
5. Graduation Design/Graduation Thesis
6. University Student Innovative Experiment Program
7. Others

D10In addition to practical teaching, what improvements do you think are needed in professional teaching? [Multiple choice]

1. The courses offered need to be more aligned with job requirements
2. Course content is updated in conjunction withscienceandtechnological development
3. Classroom teaching needs to focus more on skill development
4. The course assessment methods need to be further optimized
5. Others
6. Overall, it's very good and doesn't need improvement.

D11For current learning, the aspect ofprofessionaleducation that needs the most improvement is 【multiple choice question】

1. General Course Knowledge
2. Fundamental Course Knowledge
3. Core Knowledge of the Major
4. Practical Hands-on Ability

5. Research Method Training
6. Critical Thinking Skills in Academia
7. Literature Search and Summary Skills
8. Writing Ability

9. Interpersonal Communication Skills

10. Unable to evaluate

D12 Would you recommend your alma mater to others? **【Single choice question】**

1. willing

2. Unwilling

D13 Through work practice, what aspects do you think university education should further strengthen: (multiple choices allowed) **【Multiple Choice Question】**

1. Ideological and Moral Quality

2. Fundamental Professional Knowledge

3. Practical Hands-on Ability

4. Ability to work independently

5. Innovative Ability

6. Interpersonal Skills

7. Professional Competence

8. Teamwork Spirit

9. Expansion of knowledge across professional fields

10. Foreign languages or practical writing, etc. application ability

11. Career Planning and Guidance

12. Others

D14、Do you think the courses related to Water Supply and Drainage Science and Engineering that you have learned meet the job requirements? **【Single Choice Question】**

1. is

2. No

D15、In professional education, what type of course teaching do you think needs the most strengthening? **【Multiple choice question】**

1. General Education Courses (Outline of Modern and Contemporary Chinese History, Ideology, Morality and Rule of Law, etc.)

2. Natural Science Education Course (Advanced MathematicsA (I), Engineering MechanicsB etc.)

3. Professional education courses (water supply and drainage pipeline engineering, urban rainwater flood control and simulation, etc.)

4. Professional Practice Course (Comprehensive Design of Building Water Supply and Drainage Engineering, Process Design of Water Treatment Plants and Sewage

Treatment Plants (including Economic Cost Analysis), etc.)

5. Professional Competence Development Courses (Innovation and Entrepreneurship for College Students, etc.)