Appendix A-5: Employer Questionnaire Survey Analysis

Employer Questionnaire Survey Analysis

1. Unit information A1, the name of your organization is: _____ [fill in the blanks] [fill in the blanks].
Fill-in-the-blank data can be obtained by downloading the detailed data

A2. Location of your unit: _____ Province_____ City [Fill in the blank] [Fill in the blank].
Fill-in-the-blank data can be obtained by downloading the detailed data

A3. The nature of your organization: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Party and government organs	1	3.85%
2. Scientific research and design units	4	15.38%
3. Institutions of higher education	0	0%
4. Elementary and secondary education units	0	0%
5. Medical and health units	0	0%
6. Other public institutions	1	3.85%
7. State-owned enterprises	15	57.69%
8. Private enterprises	4	15.38%
9. Foreign-funded enterprises (Sino-foreign joint ventures, Sino-foreign cooperative joint ventures, wholly foreign-owned enterprises)	0	0%
10. Other Enterprises	0	0%
11. Troops	0	0%
12. Rural organized villages	0	0%
13. Urban communities	0	0%
14. Miscellaneous	1	3.85%
The number of people who fill in this question effectively	26	

A4. The industry in which your organization is engaged: [Multiple choice] Note: Refer to the "National Economic Industry Classification and Code (GB/T 4754-2017)", national economic industry classification. [Multiple choice].

Options	subtotal	proportion
1. Transportation, warehousing and postal services;	0	0%
2. Mining;	0	0%
3. Manufacturing;	1	3.85%
4. Electricity, heat, gas and water production and supply;	6	23.08%
5. Construction;	10	38.46%
6. Wholesale and retail trade;	0	0%
7. Agriculture, forestry, animal husbandry and fishery;	0	0%
8. Accommodation and catering industry;	0	0%
9. Information transmission, software and information technology services;	0	0%
10. Financial industry;	0	0%
11. Real estate;	1	3.85%
12. Leasing and business services;	0	0%
13. Scientific research and technical services;	3	11.54%
14. Water conservancy, environment and public facilities management;	4	15.38%
15. Resident services, repairs, and other services;	0	0%
16. Education;	0	0%
17. Health and social work;	0	0%
18. Culture, sports and entertainment;	0	0%
19. Public administration, social security and social organizations;	1	3.85%
20. International organizations;	0	0%
21. Army	0	0%
The number of people who fill in this question effectively	26	

A5. The scale of your organization: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1.50 people and below	3	11.54%
2.51-100 people	3	11.54%
3. 101-200 people	1	3.85%
4. 201-300 people	1	3.85%
5.301-1000 people	7	26.92%
6. 1001-2000 people	1	3.85%
7. 2001 and above	10	38.46%
The number of people who fill in this question effectively	26	

A6. The nature of the work that our graduates are engaged in in your unit: [Multiple Choice Questions] [Multiple Choice Questions].

Options	subtotal	proportion
1. Project Manager	9	34.62%
2. Chief engineer of the project	8	30.77%
3. Project Supervisor	14	53.85%
4. Technician	21	80.77%
5. Other positions	9	34.62%
The number of people who fill in this question effectively	26	

A7. The average monthly income (before tax) of our graduates is roughly _____ yuan/month (monthly income includes salary, benefits that can be converted into cash, etc.) [fill in the blank].

A8. The position of our graduates in your company belongs to the company: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Grassroots employees	13	50%

2. Key employees	21	80.77%
3. Department Manager	8	30.77%
4. Project responsible	13	50%
5. Top management	6	23.08%
The number of people who fill in this question effectively	26	

A9. The development of the industry in your organization is: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Rapid expansion period	0	0%
2. Expansion period	5	19.23%
3. Stable development period	17	65.38%
4. Atrophy period	4	15.38%
The number of people who fill in this question effectively	26	

A10. The number of recruits expected by your unit in 2023 is compared with that in 2022: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Rise sharply	0	0%
2. There is an uptick	4	15.38%
3. Basically flat	12	46.15%
4. There has been a decline	8	30.77%
5. Significant decline	2	7.69%
The number of people who fill in this question effectively	26	

A11. The number of graduates of our major in your institution in the past five years. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1.1-2 people	7	26.92%
2.3-5 people	8	30.77%
3.5 people and above	11	42.31%
The number of people who fill in this question effectively	26	

A12. The performance of graduates of this major in your unit: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very good	7	26.92%
2. Excellent	14	53.85%
3. Be competent for the job	5	19.23%
4. Poor	0	0%
The number of people who fill in this question effectively	26	

A12-1, what do you think the graduates of water supply and drainage science and engineering in our school need to improve: [fill in the blanks] (A12 choose "poor" to fill in) [fill in the blanks].

Fill-in-the-blank data can be obtained by downloading the detailed data

A13. Your unit's evaluation of the professionalism of the graduates of this major hired: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very satisfied	13	50%
2. Relatively satisfied	12	46.15%
3. General satisfaction	1	3.85%
4. Dissatisfied	0	0%
The number of people who fill in this question effectively	26	

A13-1, what do you think are the deficiencies of the graduates of water supply and drainage science and engineering in our school in terms of professionalism: _____ [fill in the blanks] (A13 select "generally satisfied" and "unsatisfied" to fill in) [fill in the blanks].

A14. Your unit's evaluation of the graduates of this major in terms of comprehensive knowledge: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very satisfied	11	42.31%
2. Relatively satisfied	14	53.85%
3. General satisfaction	1	3.85%
4. Dissatisfied	0	0%
The number of people who fill in this question effectively	26	

A14-1. What do you think are the deficiencies of the graduates of water supply and drainage science and engineering in our school in terms of comprehensive knowledge: _____ [fill in the blanks] (A14 select "generally satisfied" and "unsatisfied" to fill in) [fill in the blanks].

A15. Your unit's evaluation of the vocational ability of the graduates of this major hired: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very satisfied	10	38.46%
2. Relatively satisfied	15	57.69%
3. General satisfaction	1	3.85%
4. Dissatisfied	0	0%
The number of people who fill in this question effectively	26	

A15-1, What do you think are the shortcomings of the graduates of water supply and drainage science and engineering in our school in terms of vocational ability: _____ [fill in the blank] (A15 select "generally satisfied" or "unsatisfied" to fill in) [fill in the blank].

Fill-in-the-blank data can be obtained by downloading the detailed data

A16. Your unit's evaluation of the adaptability of the graduates of this major is [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very satisfied	9	34.62%
2. Relatively satisfied	16	61.54%
3. General satisfaction	1	3.85%
4. Dissatisfied	0	0%
The number of people who fill in this question effectively	26	

A16-1, What do you think are the deficiencies of the graduates of water supply and drainage science and engineering in our school in terms of adaptability: _____ [fill in the blanks] (A16 select "generally satisfied" and "unsatisfied" to fill in) [fill in the blanks].

Fill-in-the-blank data can be obtained by downloading the detailed data

A17. Your unit's overall evaluation of our institute in talent training and teaching: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very satisfied	11	42.31%
2. Relatively satisfied	14	53.85%
3. General satisfaction	1	3.85%
4. Dissatisfied	0	0%
The number of people who fill in this question effectively	26	

A17-1, what do you think are the deficiencies of the School of Municipal Administration and Surveying and Mapping Engineering in terms of talent training and teaching: _____ [fill in the blanks] (A17 select "generally satisfied" or "unsatisfied") [fill in the blanks].

Fill-in-the-blank data can be obtained by downloading the detailed data

2. Rationality evaluation of training objectivesTraining objectives of water supply and drainage science and engineering (2021 edition).

This major aims to cultivate students who adapt to China's new urbanization construction and

rural revitalization strategy, meet the needs of regional economic and social development, develop morally, intellectually, physically, aesthetically and laborably, master the basic theoretical knowledge, engineering skills and management methods of the virtuous social cycle process of urban water system, have the ability of teamwork, pioneering and innovative and independent learning, practice the core values of socialism, have a sense of social responsibility and sustainable development, have humanistic qualities, professional ethics and innovation and entrepreneurship awareness, and can be able to ensure water quality safety, In the fields of sewage treatment and recycling, comprehensive improvement of water environment, building water supply and drainage, smart water affairs and engineering management, engaged in design, construction, operation, management and preliminary research and development, and can serve high-quality application-oriented engineering and technical talents in water supply and drainage science and engineering and related industries.

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

(1) be able to practice the core values of socialism, uphold the concept of sustainable development, actively fulfill social responsibilities, have a sound personality and good humanities and social science literacy, and abide by professional ethics and engineering ethics.

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

(3) Have a good team spirit and certain organizational and communication skills, and be able to play a team role and management role in the water engineering project team such as engineering planning, design, construction, operation and management.

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

B1. The existing training can be adapted to the needs of the times: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	8	30.77%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

B2. Existing training can be applied to professional development: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	9	34.62%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

B3. Positioning of professional talents in the training objectives (high-quality application-oriented engineering and technical talents in water supply and drainage science and engineering and related industries) and school positioning: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	8	30.77%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

B4. The professional fields in the training objectives (water quality safety assurance, sewage treatment and recycling, comprehensive improvement of water environment, building water supply and drainage, smart water affairs and engineering management, etc.) are clear and reasonable: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	9	34.62%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%

The number of people who fill in this question effectively	26	

B5. The characteristics of the target occupation (engaged in design, construction, operation, management and preliminary research and development) are clear and reasonable: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	9	34.62%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

B6. Compared with the graduation requirements at the time of graduation, the existing training goals have been significantly improved through 5 years of development in terms of vocational ability, vocational competitiveness and achievement: [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	10	38.46%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

B7. Please combine your understanding of industry development, social needs and enterprise needs, and evaluate the reasonableness of your ability to achieve goal 1 (be able to practice the core values of socialism, uphold the concept of sustainable development, actively fulfill social responsibilities, have a sound personality and good humanities and social science literacy, and abide by professional ethics and engineering ethics standards). [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%

2. Compliant	9	34.62%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

B8. Please combine your understanding of industry development, social needs and enterprise needs, and evaluate the reasonableness of your ability to achieve goal 2 (be able to adapt to the development requirements of the field of water supply and drainage science and engineering, have professional knowledge related to comprehensive application of water supply and drainage science and engineering, be able to engage 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). [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	8	30.77%
3. Basically compliant	3	11.54%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

B9. Please combine your understanding of industry development, social needs and enterprise needs, and evaluate the reasonableness of the evaluation ability to achieve goal 3 (have a good teamwork spirit and certain organizational and communication skills, and be able to play a team role and management role in the water engineering project team such as engineering planning, design, construction, operation and management). [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	8	30.77%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%

The number of people who fill in this question effectively	26	

B10. Please combine your understanding of industry development, social needs and enterprise needs to evaluate the reasonableness of your evaluation ability to achieve goal 4 (have the awareness of innovation and entrepreneurship, independent learning and lifelong learning, and be able to continuously learn and apply new theories, new methods, new technologies and new equipment in the fields of water supply and drainage science and engineering to solve complex engineering problems in related fields). [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	14	53.85%
2. Compliant	11	42.31%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

B11. Do you have any comments or suggestions on the revision of the professional training plan: _____ [fill in the blanks] [fill in the blanks].
Fill-in-the-blank data can be obtained by downloading the detailed data

3. Subjective achievement evaluation of training goals

Please answer the following questions based on the situation of our students who have graduated from your company for 5 years or more:

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

This major aims to cultivate the ability to adapt to the needs of new urbanization construction and regional economic and social development, meet the social needs of engineering construction and management talents, develop morally, intellectually, physically, aesthetically and laborably, master the basic theories, basic knowledge and skills required for this professional and technical work, and have the ability to engage in engineering design, implementation, management, utilization and analysis related to the water supply and drainage industry, obtain basic training for engineers, have good professionalism, innovation and entrepreneurship ability and lifelong learning awareness, and be able to work in the design department, environmental protection department, High-quality application-oriented talents engaged in the design, construction, operation and management of water supply and drainage projects in industrial and mining

enterprises, economic management departments and government departments. Five years after graduation, have the ability to work as an intermediate engineer or professional technical leader.

Objective 1:

Adapt to the needs of new urbanization construction and regional economic and social development, meet the social needs of engineering construction and management talents, and develop morally, intellectually, physically, aesthetically and laboriously in an all-round way

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

Options	subtotal	proportion
1. Very much in line with	13	50%
2. Compliant	12	46.15%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

C2, moral, intellectual, physical, aesthetic and labor all-round development. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	14	53.85%
2. Compliant	10	38.46%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

Objective 2:

Master the basic theories, basic knowledge and skills required for this professional and technical work, and have the ability to engage in engineering design, implementation, management, utilization and analysis related to the water supply and drainage industry

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

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	9	34.62%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

C4. Have the ability to engage in engineering design, implementation, management, utilization and analysis related to the water supply and drainage industry. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	9	34.62%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

Goal 3:

Have good professional quality, innovation and entrepreneurship ability and lifelong learning awareness

C5. Have good professional quality, innovation and entrepreneurship ability and lifelong learning awareness. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	18	69.23%

2. Compliant	7	26.92%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

Objective 4: Have the ability to engage in the design, construction, operation and management of water supply and drainage projects in design departments, environmental protection departments, industrial and mining enterprises, economic management departments and government departments

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

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	9	34.62%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

Goal 5: Five years after graduation, have the ability to work as a mid-level engineer or professional technical leader.

C7. Have the ability to serve as an intermediate engineer or professional technical leader. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	17	65.38%
2. Compliant	8	30.77%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%

The number of people who fill in this question effectively	26	

4. **Evaluation of the achievement of graduation requirements**

Please answer the following questions based on the situation of students who have worked in your company for about one year after graduation:

1. Engineering knowledge: be able to apply mathematics, natural science, engineering foundation and professional knowledge to solve complex engineering problems related to water supply and drainage science and engineering.

D1-1. Master the relevant mathematics, chemistry and physics knowledge, and lay the foundation for solving complex engineering problems in the field [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	14	53.85%
2. Compliant	9	34.62%
3. Basically compliant	3	11.54%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

D1-2. Master the basic knowledge of engineering in the fields of engineering mechanics, engineering surveying, engineering drawing, civil engineering foundation, electrical engineering and electronics, etc., and lay the foundation for solving complex engineering problems in this field [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	9	34.62%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

D1-3. Master the basic knowledge of water analytical chemistry, hydraulics, water treatment biology, hydrology and hydrogeology, etc., and have the ability to apply relevant knowledge to solve complex engineering problems in this field [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	9	34.62%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

D1-4. Master professional knowledge of water quality engineering, building water supply and drainage engineering, water supply and drainage pipe network system, etc., and be able to apply it to solve complex engineering problems. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	8	30.77%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

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

D2-1. Master the principles of natural sciences such as mathematics, chemistry, and college physics, and have the ability to identify and express the key aspects of complex engineering problems; [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion

1. Very much in line with	13	50%
2. Compliant	9	34.62%
3. Basically compliant	3	11.54%
4. Non-conformity	1	3.85%
The number of people who fill in this question effectively	26	

D2-2. Master the basic theories and basic analysis methods of water supply and drainage science and engineering, and analyze and solve complex engineering problems with the help of literature retrieval and data review, so as to obtain effective solutions. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	8	30.77%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

3. Design/develop solutions: be able to use the knowledge learned to design solutions to 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 be able to consider economic, social, health, safety, legal, cultural and environmental factors in the design process, and be able to reflect the sense of innovation.

D3-1. Be proficient in the calculation methods and processes of engineering planning and design of the specialty, design reasonable solutions for complex engineering problems, and design systems, units (components) or process flows that can meet the specific needs of actual projects; [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	13	50%
2. Compliant	11	42.31%

3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

D3-2. Be able to reflect the innovative consciousness of new technologies, new materials, and new solutions in the solution of complex engineering problems in this specialty, and be able to comprehensively consider the constraints of social, economic, health, safety, legal, cultural and environmental factors. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	13	50%
2. Compliant	10	38.46%
3. Basically compliant	3	11.54%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

4. Research: Based on scientific principles and using scientific methods, including designing experiments, analyzing and interpreting data, information synthesis, etc., to study complex engineering problems in the field of water supply and drainage science and engineering, and obtain reasonable and effective conclusions.

D4-1. Be familiar with the operation methods of experimental instruments and equipment related to water supply and drainage science and engineering, and have the awareness and skills to carry out experimental research around solving complex engineering problems in this specialty; [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	12	46.15%
2. Compliant	13	50%
3. Basically compliant	0	0%
4. Non-conformity	1	3.85%
The number of people who fill in this question effectively	26	

D4-2. Ability to select research routes, design experimental schemes, construct experimental systems reasonably, operate experimental devices proficiently, obtain experimental data, and obtain reasonable and effective conclusions through analysis and processing of experimental data based on scientific principles and scientific methods, and use them to solve complex engineering problems in the specialty. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	14	53.85%
2. Compliant	11	42.31%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

5. Use modern tools: be able to develop, select and use appropriate technologies, resources, modern engineering tools and information technology tools for complex engineering problems, including prediction and simulation of complex engineering problems, and be able to understand their limitations.

D5-1. Be able to master the principles, methods and limitations of the use of professional and commonly used modern instruments, information technology tools, engineering tools and simulation software; [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	9	34.62%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

D5-2. In view of the needs of solving complex engineering problems in this specialty, be able to accurately select and use the correct modern tools to solve complex

engineering problems, and identify, calculate, predict and simulate them, and have the ability to develop modern tools preliminarily. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	9	34.62%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

6. Engineering and society: understand the relevant policies, laws, regulations and norms and standards in the field of water supply and drainage engineering, be able to reasonably analyze professional engineering practices and solutions to complex engineering problems based on the relevant background knowledge of water supply and drainage science and engineering, evaluate the impact on society, health, safety, law and culture, and understand the social responsibilities that should be assumed.

D6-1. Have certain basic knowledge of law, and be able to master the influence of technical standard system, laws and regulations, and culture on engineering activities in related fields; [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	10	38.46%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

D6-2. Be able to identify, analyze, and evaluate the social, health, safety, legal, and cultural impacts of engineering practices and solutions to complex engineering problems in their profession, and understand their responsibilities. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion

1. Very much in line with	15	57.69%
2. Compliant	9	34.62%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

7. Environment and sustainable development: be able to understand and evaluate the impact of engineering practice on the sustainable development of environment and society in the field of water supply and drainage science and engineering.

D7-1. Be able to understand the concepts and connotations of environmental protection and sustainable development related to the engineering practice of the major; [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	10	38.46%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

D7-2. Be able to analyze and evaluate the impact of engineering practice on environmental protection and sustainable development of complex engineering problems in this specialty. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	8	30.77%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

8. Professional norms: have good humanities and social science literacy and a strong sense of social responsibility, and be able to understand and abide by engineering professional ethics and norms in engineering practice in this field.

D8-1. Understand the knowledge of humanities and social sciences literacy, engineering professional ethics and social responsibility; [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	13	50%
2. Compliant	11	42.31%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

D8-2. Establish and practice the core values of socialism, understand the social responsibility of engineers for the safety, health and well-being of the public, as well as environmental protection, and be able to consciously fulfill their responsibilities in engineering practice. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	8	30.77%
3. Basically compliant	3	11.54%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

9. Individuals and teams: be able to assume the roles of individuals, team members and leaders in teams in a multidisciplinary context.

D9-1. Be able to understand the internal relationship between multiple disciplines involved in the water supply and drainage industry; [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	19	73.08%
2. Compliant	6	23.08%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

D9-2, Ability to work in a multidisciplinary team as an individual, as a team member, and as a leader. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	9	34.62%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

10. Communication: Be able to effectively communicate and exchange with industry peers and the public on complex engineering issues, including writing reports and design manuscripts, making statements, and clearly expressing or responding to instructions. And have a certain international perspective, able to communicate and exchange in a cross-cultural context.

D10-1, be able to standardize the writing of professional experiments, internships and other practice reports and professional design texts, be able to clearly express personal views and design ideas, and use professional terminology to effectively communicate and exchange with peers in the industry; [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%

2. Compliant	9	34.62%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

D10-2, have a certain international vision, able to communicate and exchange in a cross-cultural context. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	14	53.85%
2. Compliant	10	38.46%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

11. Project 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 water supply and drainage science and engineering engineering management and economic decision-making methods; [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	10	38.46%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

D11-2. Be able to apply engineering management principles and economic decision-making methods in a multidisciplinary environment. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	9	34.62%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

12. Lifelong learning: have the awareness of independent learning and lifelong learning, and have the ability to continuously learn to expand knowledge and adapt to social development.

D12-1. Have the awareness of self-directed learning and lifelong learning; [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	8	30.77%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

D12-2, have the ability to continuously learn and adapt to development. [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	17	65.38%
2. Compliant	7	26.92%
3. Basically compliant	2	7.69%

4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

5. Feedback on the curriculum system (please answer the following questions based on your understanding of the needs of the enterprise and professional positioning)

E1. Do you think that the subject education courses offered by the water supply and drainage science and engineering major (such as Advanced Mathematics, Water Analytical Chemistry, etc.) can meet the work needs of graduates after graduation? [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	13	50%
2. Compliant	10	38.46%
3. Basically compliant	3	11.54%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

E2. Do you think that the professional education courses offered by the water supply and drainage science and engineering major (such as "Water Supply and Drainage Network System", "Water Quality Engineering", etc.) can meet the work needs of graduates after graduation? [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	8	30.77%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

E3. Do you think that the practical teaching links of water supply and drainage science and engineering (such as "Water Supply Network Course Design", "Building

Water Supply and Drainage Course Design", etc.) can meet the work needs of graduates after graduation? [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	18	69.23%
2. Compliant	6	23.08%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

E4. You think that the humanities and social sciences general education courses (such as "Basic Principles of Marxism", "Ideology, Morality and the Rule of Law", etc.) in water supply and drainage science and engineering can reflect the cultivation of the ability to consider various constraints such as economy, environment, law, and ethics when engaging in engineering design. [Multiple choice].

Options	subtotal	proportion
1. Very much in line with	14	53.85%
2. Compliant	9	34.62%
3. Basically compliant	3	11.54%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

E5. Do you think the curriculum of water supply and drainage science and engineering meets the talent needs of the unit? [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	8	30.77%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

E6. Do you think that the curriculum of water supply and drainage science and engineering can support graduates to complete their jobs better? [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	8	30.77%
3. Basically compliant	2	7.69%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

E7. Do you think the training of water supply and drainage science and engineering in terms of basic knowledge is reasonable? [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	16	61.54%
2. Compliant	9	34.62%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

E8. Do you think the training of basic skills in water supply and drainage science and engineering is reasonable? [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	15	57.69%
2. Compliant	10	38.46%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

E9. Do you think the cultivation of professional ethics and professionalism in water supply and drainage science and engineering is reasonable? [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Very much in line with	17	65.38%
2. Compliant	8	30.77%
3. Basically compliant	1	3.85%
4. Non-conformity	0	0%
The number of people who fill in this question effectively	26	

E10. Do you think that the major of water supply and drainage science and engineering can better cultivate students' innovation and entrepreneurship ability? [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Yes	25	96.15%
2. No	1	3.85%
The number of people who fill in this question effectively	26	

E11. Do you think that the major of water supply and drainage science and engineering can better cultivate students' practical ability? [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Yes	25	96.15%
2. No	1	3.85%
The number of people who fill in this question effectively	26	

E12. Do you think that the major of water supply and drainage science and engineering can better cultivate students' lifelong learning ability? [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Yes	26	100%
2. No	0	0%
The number of people who fill in this question effectively	26	

E13. Do you think the water supply and drainage science and engineering major can broaden students' knowledge horizons? [Multiple Choice] [Multiple Choice].

Options	subtotal	proportion
1. Yes	26	100%
2. No	0	0%
The number of people who fill in this question effectively	26	

E14. What do you think are the shortcomings in the training of students in water supply and drainage science and engineering: _____ [fill in the blanks] [fill in the blanks].
Fill-in-the-blank data can be obtained by downloading the detailed data

E15. What do you think needs to be added to the water supply and drainage science and engineering major of Hunan City University: _____ [fill in the blanks] [fill in the blanks].
Fill-in-the-blank data can be obtained by downloading the detailed data

E16. What do you think needs to be reduced in the water supply and drainage science and engineering major of Hunan City University: _____ [fill in the blanks] [fill in the blanks].
Fill-in-the-blank data can be obtained by downloading the detailed data