

Construction of the course system of “Post Course Competition Certificate Integration” -- taking nursing major as an example

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Abstract: Nursing is a highly practical discipline, but the original curriculum system is out of line with the post, the professional characteristics are not obvious; The society’s requirements for the knowledge, skills and quality of nursing talents are increasing day by day. Therefore, the nursing major of our school draws on the experience of the education model of “integration of post courses and competition certificates” and reconstructs the curriculum system based on the post needs, industry standards and competition standards to meet the social demand for nursing talents, improve the quality of talent training and achieve the training goals.

Key words: Integration of post course competition and certificate; Nursing major; Curriculum system

“Integration of Post Course Competition Certificate” is to integrate the job post, classroom construction, qualification certificate and skill competition, so that the teaching process and clinical work, curriculum standards and post standards, so that students have the knowledge, ability and quality required to complete the typical task, with the guidance of the competition, to promote the training of high-skill applied talents. In recent years, some scholars from outside the province have studied the training mode, curriculum system and integration significance of “Post Course Competition and Certificate Integration” and achieved remarkable results, but they mainly focus on accounting and computer software and other majors of vocational education[3-5]. Bai Mengqing explored and studied the education mode of integrating “post course competition and certificate” in the province, and the rest have not been reported. The orientation of nursing major in our school is to cultivate high-quality applied nursing talents with high humanistic literacy, excellent knowledge structure and strong practical skills. The original curriculum system has obvious professional characteristics, low practice ratio, and some courses are out of touch with post requirements, which is not conducive to the training of nursing clinical thinking ability, comprehensive knowledge application ability, skill operation and other post competencies. The students have weak foundation, lack of professional knowledge reserve, and weak application ability of knowledge and skills, which can not meet the needs of the post and achieve the training goal. At the same time, under the influence of population aging and the national three-child policy, the social demand for nursing talents is increasing day by day. Therefore, this study draws on the experience of “post course competition Certificate” integrated education mode, reconstructs the curriculum system based on post requirements, industry standards and competition standards, so as to meet the social demand for nursing talents, improve the quality of talent training and achieve training goals.

1. The construction of the course system of “Post course Competition Certificate Integration”

The construction of this course system is based on the OBE teaching concept, tracing that 74.1% of graduates’ main employment positions are clinical nurses. According to the spirit of the Nurses Regulations, the Measures for the Administration of Nurse Practitioner Registration and the Measures for Nurse Practitioner Qualification Examination, the nurse post is subject to an admission system, and only after passing the nurse practitioner qualification examination can they apply for registration, so as to work in the nurse post; By analyzing the requirements of clinical nurses’ job posts and certificates, adhering to the professional orientation of “excellent knowledge structure, strong practical skills and high humanistic literacy” and the training goal of applied talents, the positions, qualification requirements and competition standards are integrated with the curriculum.

2. Clarify the meaning of “integration of post course competition Certificate”

Job requirements: The main job of this major is clinical nurse. According to the survey of the employer, the job requirements of clinical nurse in 5 years are: have a solid basic theory of nursing, skilled use of a variety of common nursing operations and common emergency technology; Have skilled use of nursing procedures for common diseases, frequently-occurring patients to implement the ability of overall nursing; Independent and accurate assessment of patients’ self-care ability, falls, pressure ulcers, pipeline risks, and the ability to give effective preventive nursing measures; Good communication skills and be able to communicate effectively with patients, family members and medical staff; Have initial teaching ability, be able to instruct nursing professional clinical interns, and be able to implement basic health education for patients.

Standards of the competition: refer to the “Nursing Track of China College Students Medical Technology and Skills Competition” assessment scope: Including vital signs measurement and related knowledge, intravenous infusion technology and related knowledge, common diseases and related knowledge of the internal medicine system, involving 9 professional courses such as “Basic nursing”, “Internal Medicine Nursing”, “Surgical nursing”, focusing on clinical thinking, communication, teamwork, health education, nursing ethics, laws and regulations and other comprehensive abilities.

Certificate requirements: The main body of “certificate” in this study is the nurse practicing qualification certificate, which includes three aspects: main nursing tasks; The nursing knowledge needed to complete the task; And common diseases. The main tasks are caring for

the sick and meeting basic needs; Treatment-related tasks; 7 types of work tasks such as assessment/evaluation activities; The knowledge embodied in the completion of the above tasks mainly includes the basic medical knowledge closely related to nursing work, nursing professional knowledge and skills as well as the social medical and humanistic knowledge related to nursing work; Common diseases include circulation, respiratory, digestive system, infectious diseases, skin and subcutaneous tissue and other 15 common diseases.

3. Build a course system based on “post course competition certificate integration”

1. Set courses according to the post, and “zero integration” with the post

Focusing on the needs of clinical nurses, the curriculum system consists of the first, second and third classes. Among them, the first class is composed of five modules: general courses, professional basic courses, professional compulsory courses, professional orientation courses and concentrated practice.

Professional basic course module is closely related to nursing courses: “Human morphology”, “pharmacology”, “Pathogen biology”, “Medical Immunology”, “Pathology”, “Physiology” and so on.

Professional compulsory courses: Nursing courses: “Health Assessment”, “Basic Nursing”, “Basic Nursing Skills”, “Medical Nursing”, “Surgical Nursing”, etc. Humanities courses: “Humanistic Cultivation of Nurses”, “Nursing munication”, “Medical literature retrieval and paper Writing”, etc.

Professional course module: fully investigate the employer, set up the orientation course according to the post needs, to ensure the “zero integration” with the post, currently set up 3 professional direction courses: direction 1: Oral care, courses include: “Endodontics”, “Oral implantology”, “Oral nursing”, “Oral materials”; Direction 2: Medical beauty nursing, courses include “beauty guide Consultation and Design”, “Cosmetic skin Treatment Technology”, “Minimally invasive injection Technology”, “Introduction to Medical Aesthetics”; Direction 3: Art nursing, courses include “Tea Art”, “Vocal Music”, “Ballet Form”, “Repertoire Rehearsal”.

Concentrated practice module: Construct the concentrated practice module of “one cycle, three integration and three steps”. “One cycle” is the cycle of intensive skill training running through the middle of the lecture → intensive training before entering the post → graduation practice → return to school after the internship to participate in graduation assessment; The “three integration” is the integration of science and practice, interdisciplinary integration, teaching and clinical integration. The “Experiment of kinesiology” is divided into two parts: basic experiment and comprehensive experiment to realize the integration of basic disciplines; “Clinical Thinking Training 1” realizes the integration of basic courses and clinical courses, “Clinical thinking Training 2 (Nursing comprehensive practical training)” realizes the integration of theory and practice; “Clinical Practice”, to achieve the integration of teaching and clinical, “graduation assessment” and “Comprehensive medical record analysis” to evaluate clinical practice ability and critical thinking ability. The “three steps” is to realize the progressive “three steps” assessment method of direct observation assessment (Dops) of operational skills during learning, mini-clinical exercise assessment before internship (Mini-cex) and objective structured clinical examination before graduation (OSCE).

2. Course certificate accommodation,the integration of certificates and courses

Analyze the examination outline of nursing junior (bachelor) professional technical qualification certificate, assign the certificate examination outline to the corresponding courses, and specify in the graduation requirements that these courses must reach 70 points in order to graduate, to ensure the “integration of courses and certificates”. See Table 1 for details.

Table 1 Certificate examination syllabus belongs to the course

Syllabus for the Licensed Practical Nurse Certification Examination		Belonging Course
Major Nursing Tasks	Take care of patients and meet their basic needs. Tasks related to assisting with treatment. Communicate and coordinate activities. Evaluate/evaluate activities. Ensure patient safety. Health guidance. Ethical/legal activities.	Basic Nursing, Health Assessment, Basic Nursing Skills, Nursing Ethics
Nursing knowledge required to complete nursing tasks	Basic medical knowledge closely related to nursing work. Nursing expertise and skills. Social medical and humanistic knowledge related to nursing work.	Basic medical knowledge: “Human Morphology”, “Pathogen biology”, “Medical immunology”, “Physiology”, “Biochemistry”, “Pharmacology”, “Pathology and pathophysiology”, “Preventive Medicine”. Professional knowledge and skills: “Basic Nursing”, “Basic Nursing Skills”, “Introduction to Nursing”, “Nursing of Traditional Chinese Medicine”. Social medicine, humanistic knowledge: “Humanistic Cultivation of Nurses”, “Nursing Management”, “Nursing Psychology”.

All kinds of common diseases	Circulatory system, digestive system, respiratory system, genitourinary system, musculoskeletal system and connective tissue diseases, nervous system, endocrine, nutritional and metabolic diseases, pregnancy, childbirth and puerperal diseases and conditions, perinatal diseases and conditions, mental disorders, injuries, poisoning, tumors, factors affecting health status and contact with health institutions, life development health care.	“Adult Nursing”, “Maternal and Infant Nursing”, “Child Nursing”, “Geriatric Nursing”, “Acute and Critical Care Nursing”, “Ophthalmology, Otolaryngology and Oral Nursing”, “Community Nursing”
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3.Integration of courses and competitions to improve training quality and professional pride

Integrate the competition project into the curriculum system, the content of the competition into the teaching content, the standards of the competition into the curriculum evaluation standards, etc., take the competition as the guidance, improve the quality of talent training, and ensure the “integration of the course competition”.

① According to the assessment scope and standards of the nursing track of the Medical Technology Skills Competition for Chinese College Students, “Basic Nursing Skills”, “Nursing Clinical Thinking Training 1 (PBL)” and “Nursing Clinical Thinking Training 2 (Comprehensive practical Training of Nursing)” are set up to carry out training based on the assessment mode of the competition (group division of labor and cooperation, and drill according to the real clinical scene). Optimize classroom teaching and practice links with the new technologies, new standards, new norms and new requirements of the competition, and integrate the class competition into one.

② Improve the discipline competition system to form a “school-provincial-national” three-level competition system. The discipline competition in the second classroom (Nursing skills competition) and the first classroom “basic nursing skills” linkage, credit exchange can be carried out, with competition instead of examination.

After strict training, participants can enter the campus, primary school, community, nursing home, etc. to popularize first-aid knowledge, common knowledge of life, medical knowledge, and realize the linkage of the first and third classes.

4. The implementation effect

The implementation effect of “post course competition certificate accommodation” is remarkable. The passing rate of nurse practicing qualification certificate has increased year by year since 2020, and the passing rate will reach more than 98% in 2023. The employment rate of graduates has reached 96 percent, and the employment rate of tertiary hospitals has reached more than 35 percent. Won 6 provincial discipline competition awards, including 4 first prizes, school-level nursing skills competition was recognized by more than 90% of graduates, 82.3% said that through the competition can get a sense of accomplishment, can quickly adapt to clinical work. “Post certificate course competition integration” course system has obvious advantages, but regional economic development, market demand, professional construction and other factors, but also need to continue to adjust and optimize, improve the quality of talent training.

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