

PHT - PHARMACY TECHNICIAN

PHT 100 Describe the professional role and ethics in the health care system (2-0-3)

This unit aims to provide learners with the knowledge and skills required to effectively comprehend their professional role and to guide their future practice in line with ethical principles that form the foundation of safe and competent practice in the health sector.

PHT 101 Describe basic concepts of anatomy and physiology for health care (2-2-4)

This module aims to provide learners with the knowledge and skills of the basic concepts of Anatomy & Physiology by offering the student an insight and understanding of the interrelationships of the body systems and the communication processes required to coordinate their activities.

PHT 102 Describe Pharmacy evolution in drug development, drug classification and prescription processing (1-1-2)

This module aims to provide learners with the knowledge and skills required to understand the history and evolution of pharmacy to current practice areas, drug classification according to routes of administration and dosage forms, reading, interpretation, evaluation and process of prescriptions and labels for dispensing.

PHT 103 Explain the fundamentals of Pharmacology for Pharmacy Technician (2-2-4)

This module aims to equip students with essential knowledge in pharmacology tailored to the responsibilities and scope of practice of pharmacy technicians. It covers the historical development of pharmacology, drug categorization, naming methods, and the drug development process. Additionally, it explores the processes of drug absorption, distribution, metabolism, and excretion, emphasizing on factors influencing them. Moreover, it presents the common mechanisms of drug interactions. Finally, foundational knowledge of autonomic pharmacology is presented.

PHT 104 Apply mathematical principles for precise pharmacy calculations (2-2-4)

This module aims to provide learners with the knowledge and skills required to problem solving in pharmacy. Topics fundamental pharmaceutical calculations: dose calculations based on general considerations and patient parameters; theory and practice of basic practical pharmaceuticals.

PHT 105 Illustrate comprehension of UAE Pharmacy Profession Laws (2-2-4)

This course introduces the UAE pharmacy law and code of conduct to students. It enables the students to apply UAE pharmacy laws and regulations to the preparation and distribution of medications and patient counseling activities.

PHT 106 Illustrate comprehension of UAE pharmacy profession laws and ethics (1-1-2)

This module aims to provide learners with a foundation of the UAE healthcare system, federal pharmacy laws, and pharmaceutical ethical principles governing the pharmacy profession. The module encompasses UAE federal regulations concerning the dispensing and storage of pharmaceutical products, the pharmacist code of ethics, medical malpractice, patient confidentiality, and health data management.

PHT 107 Describe the basis of general, organic and biological chemistry (2-1-3)

This module aims to provide learners with an understanding of foundational concepts in general, organic, and biochemistry, encompassing the basic structure of atoms and molecules, the structures, nomenclature, physical properties, and reactions of organic compounds, and the structure and function of essential biological molecules. that include proteins, lipids, and carbohydrates.

PHT 108 Describe the principles of occupational health and safety in healthcare sector (1-1-2)

This module aims to equip learners with a fundamental understanding of occupational health and safety risks in the healthcare industry. Learners are expected to exhibit their comprehension of potential threats in the healthcare setting with a special focus on risk assessment, mitigation and preventive actions in pharmacy workspace.

PHT 130 Apply essential pharmacy practice principles for pharmacy technician I (0-16-4)

The aim of this module is to provide pharmacy technician students with a comprehensive understanding of the operations within a community setting, effective communication skills with patients, and proficiency in identifying and distinguishing medication forms and names. By the end of this module, students will be equipped with the knowledge and skills necessary to contribute effectively to the pharmacy team and ensure the safe and efficient delivery of pharmaceutical services.

PHT 131 Apply essential pharmacy practice principles for pharmacy technician II (0-16-4)

This module aims to provide learners with competencies needed to excel in pharmacy technician roles, in processing prescription orders and accurately labelling various medications using Pharmacy software. It also emphasizes patient safety and adherence to regulatory standards, ensuring graduates are well-prepared for successful careers in pharmacy operations.

PHT 132 Apply essential pharmacy practice principles for pharmacy technician III (0-16-4)

This module aims to provide learners with competencies needed to excel in pharmacy technician roles, in processing prescription orders and accurately labelling various medications using Pharmacy software. It also emphasizes patient safety and adherence to regulatory standards, ensuring graduates are well-prepared for successful careers in pharmacy operations.

PHT 200 Explain the fundamentals of non-prescription and complementary therapies (1-1-2)

This module aims to provide learners with a comprehensive understanding of non-prescription (over the counter) medications and complementary therapies commonly used in healthcare. The course will provide students with the basics of pharmaceutical care knowledge and skills in non-prescription therapeutics of minor ailments and help in gaining a better understanding of the safe and effective use of nonprescription and self-care products and complementary therapies.

PHT 201 Prepare a variety of non-sterile compounds in a safe and efficient manner (1-1-2)

This module aims to equip students with the knowledge and practical skills required to compound a wide range of non-sterile pharmaceutical products safely and efficiently. This course aims to provide a solid foundation in compounding techniques, ensuring that pharmacy technicians can contribute effectively to pharmaceutical care by preparing customized medications accurately and in compliance with established safety protocols.

PHT 202 Explain the basis of microbiology and antimicrobials therapy for Pharmacy Technician (2-2-4)

The aim of this module is to provide a comprehensive understanding of microorganisms, their classification, structure, growth, and reproduction, and the factors influencing these processes. It also covers the transmission of infections, along with prevention and control measures, emphasizing on the identification of infections caused by pathogenic microorganisms. Also, the module focuses on the principles of antimicrobial agents, including the mechanisms of action of antibacterial, antifungal, and antiviral agents, their appropriate use, potential side effects, and contraindications.

PHT 203 Explain the pathophysiology, pharmacological and non-pharmacological management of diseases I (2-2-4)

The aim of this module is to provide students with a comprehensive understanding of the pathophysiology, treatment options, and management strategies for a diverse array of conditions encompassing pain and inflammation, cardiovascular, and Hematological disorders aligning with therapeutic guidelines. Detailed discussions will cover the mechanisms of action of various pharmacological treatments, alongside exploration of potential adverse effects. Moreover, the module will emphasize on the non-pharmacological interventions to augment disease management.

PHT 204 Demonstrate methods and techniques for simple and advanced sterile compounding (2-2-4)

The aim of this module is to equip students with the knowledge and skills needed to prepare a variety of simple and advanced sterile compounds in a safe and efficient manner. Students will develop a comprehensive understanding of cleanroom design and engineering controls, infection control protocols and sterile compounding principles relevant to aseptic technique. Upon successful completion of this module students will have gained proficiency in accurately combining specified components, ensuring the production of high-quality sterile compounded medications.

PHT 205 Perform tasks required from a pharmacy technician in an institutional setting (1-1-2)

This module aims to provide learners with the required understanding and knowledge of healthcare billing systems, the use of automation and informatics in pharmacy practice. It also serves as a foundation for the continuous pharmacy technician role in quality assurance duties, medication safety and healthcare promotion.

PHT 206 Explain the pathophysiology, pharmacological and non-pharmacological management of diseases II (2-2-4)

The aim of this module is to provide students with a comprehensive understanding of the pathophysiology, treatment options, and management strategies for a diverse array of disease states, encompassing gastrointestinal, psychiatric, neurological, endocrine, metabolic, and immunological disorders, aligning with therapeutic guidelines. Detailed discussions will cover the mechanisms of action of various pharmacological treatments, alongside exploration of potential adverse effects. Moreover, the module will emphasize on the non-pharmacological interventions to augment the disease management.

PHT 207 Perform core competencies for pharmacy technician in the sterile compounding unit (0-2-2)

This module aims to empower students with the knowledge and skills required to perform aseptic techniques, precise calculations, and sterile product preparation to ensure patient safety and the delivery of high-quality pharmaceutical care.

PHT 230 Develop essential skills for Pharmacy Technicians in community pharmacy I (0-16-4)

This module aims to empower learners with the knowledge and skills required to excel in a community pharmacy setting. This comprehensive training program will focus on equipping participants with the essential skills and professional attributes necessary to provide Over the Counter (OTC) guidance, self-care recommendations, and expert advice on complementary medicines.

PHT 231 Develop essential skills for Pharmacy Technicians in community pharmacy II (0-16-4)

This module aims to empower pharmacy technicians with the knowledge and skills required in a community pharmacy to use their critical thinking abilities by learning to evaluate the appropriate use of a wide range of medications, while considering individual patient needs and characteristics. Furthermore, students will actively participate in pharmaceutical stock inventory management and associated activities.

PHT 232 Develop essential skills for Pharmacy Technicians in community pharmacy III (0-16-4)

This module aims to empower pharmacy technicians with the knowledge and skills required in a community pharmacy to use the power of pharmacy software and technology to optimize workflow processes in accordance with industry standards and best practices. They will also demonstrate awareness of various quality assurance tasks within a community pharmacy setting.

PHT 233 Perform core competencies for pharmacy technician in primary healthcare clinics (0-16-4)

This module aims to equip pharmacy technicians with the essential knowledge and skills required to excel in a primary healthcare clinic setting. This module will focus on critical thinking abilities and professional attributes necessary for providing optimal patient care, including medication evaluation, selection, and patient education.

PHT 234 Perform core competencies for pharmacy technician in hospital setting I (0-16-4)

This module is designed to equip learners with the knowledge and skills necessary to work as a pharmacy technician in a hospital setting. Learners are introduced to an array of tasks including medication order processing and various compounding activities. They will also get grasp of the unique organizational structure of hospital system, interdisciplinary communication skills, infection prevention and control, health and safety procedure and patient confidentiality within the hospital setting.

PHT 235 Perform core competencies for pharmacy technician in hospital setting II (0-16-4)

This module is designed to equip learners with the knowledge and skills necessary to work as a pharmacy technician in a hospital setting. Learners are introduced to various automation and informatics solutions available. Also, learners are expected to apply quality assurance checks for patient safety.