

PharmServ Pharmacy Technician Certification Course Outline

Course 1 Outline

- 1. Course Overview
 - a. Minimum qualifications
 - i. High school graduate or GED
 - ii. Satisfactory criminal background check
 - iii. Completion of pharmacy technician training program
 - iv. Completion of 160 hours work experience
 - v. PTCB examination preparation
 - vi. Benefits of the Certified Pharmacy Technician (CPhT) credentials.
- 2. Pharmacy Industry
 - a. Types of pharmacy practice settings
 - i. Community/Retail
 - ii. Hospital/Institutional/Health-System
 - iii. Home healthcare/Long-term care iv. Ambulatory care
 - v. Specialty pharmacy service.
- 3. Professional Conduct
 - a. Professionalism, Communication, Compassion and Teamwork
 - i. Dress code
 - 1. Professional attire
 - 2. Good personal hygiene
 - ii. Compassion
 - 1. Patients
 - 2. Co-workers iii. Teamwork
 - 1. Elements of teamwork
 - 2. Hospital workflow
 - 3. Community workflow

iv. Conduct

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- 1. Disruptive behavior
- 2. Demeaning Behavior
- 3. Intimidating Behavior
- 4. Passive-aggressive behavior
- 5. Passive disrespect
- 6. Dismissive treatment

v. Communication

- 1. Respectful and professional
- 2. Dealing with hostile patients
- 3. Patents with mental illness
- 4. Elderly patients
- 5. Patients with low health literacy

vi. Cultural Sensitivity

- 1. Professional patient encounters
- 2. Religious and cultural diversity awareness
- 3. LGBTQ patient communication awareness

4. Roles and Responsibilities of Pharmacy Technicians

- a. Prescription preparation
 - i. Basic knowledge of prescription and Over The Counter (OTC) medications
 - ii. Knowledge of medication strengths and physical appearance
 - iii. Typical arrangement of medications in the pharmacy
 - iv. Double checking methods for accuracy and error prevention

b. Healthcare institution medication orders preparation

- i. Basic knowledge of Intravenous (IV) medication
- ii. Compounding IV medications
 - 1. Basic calculations
 - 2. Aseptic techniques
- c. Filling automated dispensing cabinet (ADC)
 - i. Pyxis med station medication management
 - ii. Omnicell medication dispensing system

5. Processing Medication Orders and Prescription

- a. Community/Outpatient/Retail Pharmacies
 - i. Labeling requirements
 - ii. Dispensing
 - iii. Storing
- b. Hospital/Inpatient Pharmacies
 - i. Labeling requirements
 - ii. Dispensing iii. Prepackaging iv. Distribution
 - v. Storage



- 6. Medication dosage forms
- a. Liquid
- b. Solid
- c. Semisolid
- d. Miscellaneous
- 7. Routes of Administration
 - a. Oral
 - b. Sublingual
 - c. Parenteral
 - d. Topical
- 8. Generic, Brand, Classification of Drugs (in relation to top 300 drugs)
 - a. Drugs that affect Nervous system
 - b. Drugs that affect Cardiovascular System
 - c. Drugs that affect Respiratory system
 - d. Drugs that affect Musculoskeletal system
 - e. Drugs that affect Endocrine system
 - f. Drugs that affect Gastrointestinal system
 - g. Drugs that affect Urinary system
 - h. Drugs that affect Women's Health
 - i. Drugs that affect Men's Health
 - j. Anti-infective
 - k. Hematologic drugs
 - 1. Drugs to treat Arthritis
 - m. Drugs to treat Seasonal Allergies
 - n. Vitamins and Dietary Supplements
 - o. Controlled Substances
 - i. Schedules and Laws
 - ii. Labeling
 - iii. Dispensing
- 9. Pharmaceutical Calculations
 - a. Basic math
 - b. Conversions
 - c. BSA
 - d. IBW
 - e. Dosage calculations
 - f. Concentration and Dilution
 - g. IV Flow Rate
 - h. Pediatric formulation
- 10. Dosing considerations for pediatric and geriatric patients
 - a. Pediatric pharmacokinetics



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- o. Geriatric pharmacokinetics
- c. Medication safety considerations
- 11. Billing and Reimbursement (Third Party)
 - a. Self-Pay
 - b. Private insurance
 - c. Public payer
 - d. Billing for drugs and dispensing services
- 12. Inventory Management
 - a. Ordering and keeping inventory
 - b. Billing and insurance
 - c. Pharmaceutical supply chain management
- 13. IV Compounding
 - a. Sterile compounding area
 - b. Compounding technique
 - c. Compounding supplies
 - d. Labeling
 - e. Parenteral Nutrition Solutions
- 14. Patient Confidentiality
 - a. Health Insurance Portability and Accountability Act of 1996 (HIPPA)

Course 2 Outline

- 1. Students complete 160 hours of on-site training
 - a. 80 hours at a hospital setting/health-system/institution site
 - b. 80 hours at a community/out-patient/ambulatory site

Course 3 Outline

- 1. PTCB Examination Overview
 - a. PTCB exam structure
 - 1. 110-min
 - 2. 80 MCQ plus 10 questions that doesn't count in test score



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- 2. General Science knowledge
- a. Structure and function of the human body
- 3. Basic Pharmacology of Technicians
 - a. Pharmacokinetics review
 - 1. Absorption
 - 2. Distribution
 - 3. Metabolism
 - 4. Excretion
 - b. Pharmacodynamics
 - 1. Drug effects on the human body system
 - c. Understanding Basic Drug Interactions
- 4. Review of Top 300 drugs
 - a. Brand/Generic/Classification
- 5. Pharmacy Law and Regulations
 - a. Food and Drug Act
 - b. Sherley Amendment
 - c. FDA
 - d. Food, Drug, and Cosmetic Act
 - e. Durham-Humphrey Amendment
 - f. Kefauver-Harris Drug Review
 - g. Tamper-resistant Packaging Regulation
 - h. Hatch-Waxman Act
 - i. Prescription Drug Marketing Act
 - j. U.S. Food and Drug Administration Modernization Act
 - k. Medicare Prescription Drug Improvement and Modernization Act
 - 1. Project BioShield Act
 - m. Anabolic Steroid Control Act
 - n. Drug Safety Board
 - o. Combat Methamphetamine Epidemic Act
 - p. Requirement on Content and Format of Labeling for Human Prescription Drug and Biological Products
- 6. Sterile and Nonsterile Compounding
 - a. USP General Chapter <795>
 - b. Compounding equipment and procedures
 - c. Compounding preparations
 - d. Repackaging drugs
 - e. Beyond-use dating and labeling
 - f. Total Parenteral Nutrition Solution
 - g. Hazardous Sterile Compounding
 - h. Quality Assurance



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- 7. Medication Safety
- a. Types of medication errors
- b. Incidence
- c. Impact of medication errors
- d. Cause of medication errors
- e. Medication safety strategies
- 8. Review Medication Order Entry and Fill Process
- 9. Review Billing and Reimbursement
- 10. Typical PTCB Exam Questions Review