

Health Science and Medical Technology

Job Title Pharmacy Technician

Career Pathway: Patient Care

Industry Sector: Health Science and Medical Technology

O*NET-SOC CODE: 29-2052.00

CBEDS Title: Healthcare Occupations

CBEDS No.: 4257

77-90-60

Pharmacy Technician

Credits: 30

Hours: 400

Course Description:

This competency-based course is designed to prepare students for employment in a pharmaceutical setting. The class consists of theory and clinical preparation to include: medical terminoloav, and physiology, anatomv pharmaceutical settings, duties and responsibilities of a pharmacy technician, pharmaceutical terms, abbreviations and symbols, metric and apothecary systems, drug requirements, record-keeping, dispensing prescriptions, knowledge of manufacturing, packaging, and labeling of drug products, complete 120 hours of clinical training. At the successful completion of this course, students will be qualified to register with the California State Board of Pharmacy as a Pharmacy Technician and students will be eligible to register for the Pharmacy Technican Upgrade program. Students will perform community classroom activities while under the direct supervision of a pharmacist. The competencies in this course are aligned with the California High School Academic Content Standards and the California Career Technical Education Model Curriculum Standards.

Prerequisites:

Enrollment requires a U.S. High School Diploma, high school equivalency, or A.A. Degree, math skill level equivalent to Math 2 (53-03-76), at least 18 years of age, possession of an AHA or BLS Healthcare Providers current Basic "C" CPR Certificate, tuberculosis clearance, and a physical exam.

NOTE: For Perkins purposes this course has been designated as an **introductory/concentrator** course.

This course cannot be repeated once a student receives a Certificate of Completion.

Los Angeles Unified School Distri Division of Adult and Career Educatio instructional and Couseling Services Ur Adult Curriculum Offic www.wearedace.o





REVISED: August/2020

COURSE OUTLINE COMPETENCY-BASED COMPONENTS

A course outline reflects the essential intent and content of the course described. Acceptable course outlines have six components. (Education Code Section 52506). Course outlines for all apportionment classes, including those in jails, state hospitals, and convalescent hospitals, contain the six required elements:

(EC 52504; 5CCR 10508 [b]; Adult Education Handbook for California [1977], Section 100)

COURSE OUTLINE COMPONENTS

GOALS AND PURPOSES

The educational goals or purposes of every course are clearly stated, and the class periods are devoted to instruction. The course should be broad enough in scope and should have sufficient educational worth to justify the expenditure of public funds.

The goals and purpose of a course are stated in the COURSE DESCRIPTION. Course descriptions state the major emphasis and content of a course and are written to be understandable by a prospective student.

PERFORMANCE OBJECTIVES OR COMPETENCIES

Objectives should be delineated and described in terms of measurable results for the student and include the possible ways in which the objectives contribute to the student's acquisition of skills and competencies.

Performance Objectives are sequentially listed in the COMPETENCY-BASED COMPONENTS section of the course outline. Competency Areas are units of instruction based on related competencies. Competency Statements are competency area goals that together define the framework and purpose of a course. Competencies fall on a continuum between goals and performance objectives and denote the outcome of instruction.

Competency-based instruction tells a student before instruction what skills or knowledge they will demonstrate after instruction. Competency-based education provides instruction which enables each student to attain individual goals as measured against pre-stated standards.

Competency-based instruction provides immediate and continual repetition and in competency-based education the curriculum, instruction, and assessment share common characteristics based on clearly stated competencies. Curriculum, instruction, and assessment in competency-based education are explicit, known, agreed upon, integrated, performance oriented, and adaptive.

2

LOCATION

Cover

pp. 8-13

COURSE OUTLINE COMPETENCY-BASED COMPONENTS (continued)

COURSE OUTLINE COMPONENTS	LOCATION
INSTRUCTIONAL STRATEGIES	p. 16
Instructional techniques or methods could include laboratory techniques, lecture method, small-group discussion, grouping plans, and other strategies used in the classroom.	
Instructional strategies for this course are listed in the TEACHING STRATEGIES AND EVALUATION section of the course outline. Instructional strategies and activities for a course should be selected so that the overall teaching approach takes into account the instructional standards of a particular program, i.e., English as a Second Language, Programs for Adults with Disabilities.	
UNITS OF STUDY, WITH APPROXIMATE HOURS ALLOTTED FOR EACH UNIT	Cover
The approximate time devoted to each instructional unit within the course, as well as the total hours for the course, is indicated. The time in class is consistent with the needs of the student, and the length of the class should be that it ensures the student will learn at an optimum level.	pp. 8-14
Units of study, with approximate hours allotted for each unit are listed in the COMPETENCY AREA STATEMENT(S) of the course outline. The total hours of the course, including work-based learning hours (community classroom and cooperative vocational education) is listed on the cover of every CBE course outline. Each Competency Area listed within a CBE outline is assigned hours of instruction per unit.	
EVALUATION PROCEDURES	p. 16
The evaluation describes measurable evaluation criteria clearly within the reach of the student. The evaluation indicates anticipated improvement in performances as well as anticipated skills and competencies to be achieved.	
Evaluation procedures are detailed in the TEACHING STRATEGIES AND EVALUATION section of the course outline. Instructors monitor students' progress on a continuing basis, assessing students on attainment of objectives identified in the course outline through a variety of formal and informal tests (applied performance procedures, observations, and simulations), paper and pencil exams, and standardized tests.	
REPETITION POLICY THAT PREVENTS PERPETUATION OF STUDENT ENROLLMENT	Cover

After a student has completed all the objectives of the course, he or she should not be allowed to reenroll in the course. There is, therefore, a need for a statement about the conditions for possible repetition of a course to prevent perpetuation of students in a particular program for an indefinite period of time.

ACKNOWLEDGMENTS

Thanks to VICKY BROCCOLO and LUZ GRANADOS for developing and editing this curriculum. Acknowledgment is also given to ERICA ROSARIO for designing the original artwork for the course covers.

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CALIFORNIA CAREER TECHNICAL EDUCATION MODEL CURRICULUM STANDARDS Health Science and Medical Technology Industry Sector Knowledge and Performance Anchor Standards

1.0 Academics

Analyze and apply appropriate academic standards required for successful industry sector pathway completion leading to postsecondary education and employment. Refer to the Health Science and Medical Technology academic alignment matrix for identification of standards.

2.0 Communications

Acquire and accurately use Health Science and Medical Technology sector terminology and protocols at the career and college readiness level for communicating effectively in oral, written, and multimedia formats.

3.0 Career Planning and Management

Integrate multiple sources of career information from diverse formats to make informed career decisions, solve problems, and manage personal career plans.

4.0 Technology

Use existing and emerging technology to investigate, research, and produce products and services, including new information, as required in the Health Science and Medical Technology sector workplace environment.

5.0 Problem Solving and Critical Thinking

Conduct short, as well as more sustained, research to create alternative solutions to answer a question or solve a problem unique to the Health Science and Medical Technology sector using critical and creative thinking, logical reasoning, analysis, inquiry, and problem-solving techniques.

6.0 Health and Safety

Demonstrate health and safety procedures, regulations, and personal health practices and determine the meaning of symbols, key terms, and domain-specific words and phrases as related to the Health Science and Medical Technology sector workplace environment.

7.0 Responsibility and Flexibility

Initiate, and participate in, a range of collaborations demonstrating behaviors that reflect personal and professional responsibility, flexibility, and respect in the Health Science and Medical Technology sector workplace environment and community settings.

8.0 Ethics and Legal Responsibilities

Practice professional, ethical, and legal behavior, responding thoughtfully to diverse perspectives and resolving contradictions when possible, consistent with applicable laws, regulations, and organizational norms.

9.0 Leadership and Teamwork

Work with peers to promote divergent and creative perspectives, effective leadership, group dynamics, team and individual decision making, benefits of workforce diversity, and conflict resolution as practiced in the Cal-HOSA career technical student organization.

10.0 Technical Knowledge and Skills

Apply essential technical knowledge and skills common to all pathways in the Health Science and Medical Technology sector, following procedures when carrying out experiments or performing technical tasks.

11.0 Demonstration and Application

Demonstrate and apply the knowledge and skills contained in the Health Science and Medical Technology anchor standards, pathway standards, and performance indicators in classroom, laboratory, and workplace settings and through the Cal-HOSA career technical student organization.

Health Science and Medical Technology Pathway Standards

B. Patient Care Pathway

The standards for the Patient Care pathway apply to occupations or functions involved in the prevention, treatment, and management of illness and the preservation of mental and physical well-being through the services offered by the medical and allied health professions. The standards specify the knowledge and skills needed by professional-and technical personnel pursuing careers in this pathway.

Sample occupations associated with this pathway:

- Kinesiotherapist
- Nurse Anesthetist
- Respiratory Therapist
- Radiologic Technician
- Dental Hygienist
- B1.0 Recognize the integrated systems approach to health care delivery services: prevention, diagnosis, pathology, and treatment
- B2.0 Understand the basic structure and function of the human body and relate normal function to common disorders.
- B3.0 Know how to apply mathematical computations used in health care delivery system.
- B4.0 Recognize and practice components of an intake assessment relevant to patient care.
- B5.0 Know the definition, spelling, pronunciation, and use of appropriate terminology in the health care setting.
- B6.0 Communicate procedures and goals to patients using various communication strategies to respond to questions and concerns.
- B7.0 Apply observation techniques to detect changes in the health status of patients.
- B8.0 Demonstrate the principles of body mechanics as they apply to the positioning, transferring, and transporting of patients.
- B9.0 Implement wellness strategies for the prevention of injury and disease behaviors that prevent injury and illness
- B10.0 Comply with protocols and preventative health practices necessary to maintain a safe
- B11.0 Comply with hazardous waste disposal policies and procedures, including documentation, to ensure that regulated waste is handled, packaged, stored, and disposed of in accordance with federal, state, and local regulations.
- B12.0 Adhere to the roles and responsibilities, within the scope of practice, that contribute to the design and implementation of treatment planning
- B13.0 Research factors that define cultural differences between and among different ethnic, racial, and cultural groups and special populations.

American Society of Health-System Pharmacists (ASHP) Standards

STANDARD CATEGORIES

- 1. Personal/Interpersonal Knowledge and Skills
- 2. Foundational Professional Knowledge and Skills
- 3. Processing and Handling of Medications and Medication Orders
- 4. Patient Care, Quality and Safety Knowledge and Skills
- 5. Regulatory and Compliance Knowledge and Skills
- 6. Authority and Responsibility provided to Program Director
- 7. Strategic Plan
- 8. Advisory Committee
- 9. Curricular Length
- 10. Curricular Composition and Delivery
- 11. Student Recruitment, Acceptance, Enrollment, and Representation
- 12. Faculty/Instructors
- 13. Documentation
- 14. Assessment of Competency Expectations
- 15. Assessments of Structure and Process

Pharmacy Technician Certification Examination (PTCE) Content Outline

- 1. Medications
- 2. Federal Requirements
- 3. Patient Safety and Quality Assurance
- 4. Order Entry and Processing

CBE

Competency-Based Education

COMPETENCY-BASED COMPONENTS for the <u>Pharmacy Technician</u> Course

COMPETENCY AREAS AND STATEMENTS	MINIMAL COMPETENCIES	STANDARDS
A. INTRODUCTION Demonstrate understanding of course policies and procedures.	 Describe class requirements. Describe pharmacy technician's role, pharmacist's role, and other occupations in healthcare. Describe appropriate behavior and dress standards for classroom and clinical settings. Review course standards and state requirements including how felony conviction or history of substance abuse could prohibit registration and/or employment as a pharmacy technician. Describe professionalism in the health care setting. Understand applicable state and federal laws to pharmacy practice Demonstrate ethical conduct. Apply self-management skills, including time, stress, and change management 	Career Ready Practice: 1, 2, 3, 5, 7, 8, 12 CTE Anchor: Communication: 2.2, 2.2 Problem Solving and Critical Thinking: 5.1, 5.4 Responsibility and Flexibility: 7.2, 7.3, 7.7 Ethics and Legal Responsibilities: 8.2, 8.3, 8.4 Technical Knowledge and Skills: 10.1, 10.2 CTE Pathway:
(Theory: 2 hours)		B10.5, B12.2
 B. SAFETY PROCEDURES Describe safety and health standards in the workplace setting. 	 Describe Cal OSHA requirements in the workplace setting. Review classroom and lab safety rules and regulations. Describe health and safety procedures for the product and the dispenser. Describe the role of a pharmacy technician in reporting and documentation. Pass the safety test with 100% accuracy. 	Career Ready Practice: 1, 2, 5, 7, 8, 11, 12 CTE Anchor: Communication: 2.1, 2.2, 2.3 Problem Solving and Critical Thinking: 5.1, 5.2, 5.3, 5.4 Health and Safety: 6.2, 6.6, 6.8 Responsibility and Flexibility: 7.2, 7.7 Ethics and Legal Responsibilities: 8.1, 8.2, 8.4, 8.5 Leadership and Teamwork: 9.2, 9.3 Leadership and Teamwork: 9.2, 9.3

COMPETENCY AREAS AND STATEMENTS	MINIMAL COMPETENCIES	STANDARDS
Theory: 1 hours) (Community Classroom: 2 hours)		CTE Pathway: B10.4, B11.4
C. COMMUNICATION AND CUSTOMER SERVICE Describe telephone etiquette, communication styles, ethics, and confidentiality.	 Demonstrate active and engaged listening skills Communicate clearly and effectively, both verbally, nonverbally and in writing Demonstrate a respectful and professional attitude when interacting with diverse patient populations, colleagues, and professionals Apply interpersonal skills, including negotiation skills, conflict resolution, customer service, and teamwork Describe telephone etiquette between technician and client, health care personnel and outside agencies. Demonstrate ability to maintain confidentiality of patient information Understand the Health Insurance Portability and Accountability Act (HIPAA) Demonstrate via role playing a client and technical situational procedure. Assist pharmacists in collecting, organizing, and recording demographic and clinical information for the Pharmacists' Patient Care Process. Explain point of care testing. Explain pharmacist and pharmacy technician roles in medication management services. Collect payment for medications, pharmacy services, and devices. 	Career Ready Practice: 1, 2, 5, 7, 8, 10, 12 CTE Anchor: Communication: 2.1, 2.2, 2.3, 2.4, 2.5, 2.6 Problem Solving and Critical Thinking: 5.1, 5.2, 5.3, 5.4 Responsibility and Flexibility: 7.2, 7.3, 7.7 Ethics and Legal Responsibilities: 8.2, 8.3, 8.4, 8.5, 8.7 Technical Knowledge and Skills: 10.1, 10.2, 10.4 Demonstration and Application: 11.1 CTE Pathway: B4.1, B4.4, B6.1, B6.2, B6.3, B6.4, B6.6, B7.1
D. PHARMACOLOGY Demonstrate an understanding of medication and drug sources, abbreviations, actions, and physician orders.	 Demonstrate basic knowledge of anatomy, physiology, and pharmacology, and medical terminology relevant to the pharmacy technician's role Recognize and describe various drug classifications. Describe the various uses of drugs and their sources. Describe various routes of drug administration. Describe prescription and its written components. Describe basic drug actions and reactions. List and define drug abbreviations. Demonstrate an understanding of written physician's orders and translate to "every-day language." 	Career Ready Practice: 1, 2, 5, 10, 11 CTE Anchor: Communication: 2.1, 2.2, 2.3, 2.4, 2.6, 2.7, 2.8 Technology: 4.1, 4.5 Problem Solving and Critical Thinking: 5.1, 5.4, 5.6

COMPETENCY AREAS AND STATEMENTS	MINIMAL COMPETENCIES	STANDARDS
(Theory: 40 hours) (Community Classroom: 20 hours)	 9. List and describe chemical symbols. 10. Describe therapeutic classifications and equivalence 11. Describe differences between prescribed and "over-the-counter" drugs. 12. Describe the role of the Food and Drug Administration (FDA). 13. Describe wellness promotion and disease prevention concepts 14. Explain the pharmacy technician's role in the medication-use process. 	Health and Safety: 6.2, 6.6 Technical Knowledge and Skills: 10.1, 10.4 Demonstration and Application: 11.1, 11.2 CTE Pathway: B1.1, B2.1, B5.1, B5.2, B5.3, B5.4, B5.5, B5.6, B5.7
E. CALCULATIONS Demonstrate various mathematical procedures required for prescription dosages.	 Demonstrate ability to add, subtract, multiply, and divide fractions, decimals, percents, and ratios. Demonstrate ability to interpret and calculate apothecary, metric, and household measurement Perform mathematical calculations essential to the duties of pharmacy technicians in a variety of settings Demonstrate knowledge of metric and household equivalents. Demonstrate ratios, proportions, conversions, allegations, concentrations, dilutions, and days' supply as they relate to pharmacy practice. Demonstrate the set-up for dosage calculation, via ratio- proportion for a drug. Calculate pediatric dosages per kilogram of body weight. Set up and solve calculations for percent solutions. Explain the use of milliequivalent (Meq) and units (U) in dosage calculations. Calculate I.V. infusion rates. Recognize and calculate unit dose systems. Describe and demonstrate dosage calculation using the delegation method. Describe technician's role with client when explaining 	Career Ready Practice: 1, 5, 7, 8, 10 CTE Anchor: Communication: 2.1, 2.7, 2.8 Problem Solving and Critical Thinking: 5.1, 5.2, 5.3, 5.5, 5.6 Responsibility and Flexibility: 7.2 Ethics and Legal Responsibilities: 8.2, 8.3, 8.5 Technical Knowledge and Skills: 10.1, 10.4 Demonstration and Application: 11.1 CTE Pathway: B3.1, B3.2, B3.3, B7.3
(Community Classroom: 20 hours)	drug dosages. 14. Describe documentation and reporting of errors.	
F. LAWS AND REGULATIONS Demonstrate and describe laws, regulations, and compliance.	 Describe and apply state and federal laws pertaining to processing, handling, and dispensing of medications including controlled substances Describe state and federal laws and regulations pertaining to pharmacy technicians. Explain that differences exist between states regarding state regulations, pertaining to pharmacy technicians, and the processing, handling, and dispensing of medications. 	Career Ready Practice: 1, 2, 5, 7, 8, 10, 11 CTE Anchor: Communication: 2.1, 2.2, 2.3, 2.4, 2.6, Problem Solving and Critical Thinking: 5.1, 5.4, 5.6, Health and Safety:

COMPETENCY AREAS AND STATEMENTS	MINIMAL COMPETENCIES	STANDARDS
(Theory: 45 hours) (Community Classroom: 20 hours)	 Describe pharmacy compliance with professional standards and relevant legal, regulatory, formulary, contractual, and safety requirements. Describe Occupational Safety and Health Administration (OSHA), National Institute of Occupational Safety and Health (NIOSH), and United States Pharmacopeia (USP) requirements for prevention and treatment of exposure to hazardous substances (e.g., risk assessment, personal protective equipment, eyewash, spill kit) Describe OSHA requirements for prevention and response to blood-borne pathogen exposure (e.g., accidental needle stick, post- exposure prophylaxis). Describe OSHA Hazard Communication Standard (i.e., "Employee Right to Know") 	6.8 Responsibility and Flexibility 7.2, 7.3, 7.4, 7.7, 7.8 Ethics and Legal Responsibilities: 8.1, 8.2, 8.3, 8.4, 8.7 Technical Knowledge and Skills: 10.1, 10.2, 10.4 Demonstration and Application: 11.1, 11.2 CTE Pathway: B5.1, B9.1, B9.3, B12.4
 G. PROCESSING AND HANDLING OF MEDICATIONS AND MEDICATION ORDERS Demonstrate knowledge of medication distribution, record- keeping functions and prescription dispensing. 	 Assist pharmacists in preparing, storing, and distributing medication products including those requiring special handling and documentation. Prepare patient-specific medications for distribution. Prepare non-patient-specific medications for distribution. Describe basic concepts related to preparation for sterile and non-sterile compounding. Recognize and demonstrate centralized vs. decentralized medication distribution. Demonstrate preparation of admixtures in PVC bags, glass containers, and plastic containers. Describe large volume and intravenous (I.V.) small volume (IVPB). Practice and adhere to effective infection control, aseptic and safety techniques utilized in preparing intravenous solutions and chemotherapeutic agents. Demonstrate procedure for reconstituting a powdered vial and breaking an ampoule. Explain parts of laminar flow hood and its function. Demonstrate understanding of robotics in pharmacy drug distribution locale. Type a prescription label with 100% accuracy. Explain extemporaneous compounding. Prepare simple non-sterile medications per applicable USP chapters (e.g., reconstitution, basic ointments, and creams). 	Career Ready Practice: 1, 2, 5, 8, 10, 12 CTE Anchor: Communication: 2.1, 2.2, 2.3, 2.5, 2.7, 2.8 Technology: 4.1 Problem Solving and Critical Thinking: 5.1, 5.2, 5.3, 5.5, 5.6 Ethics and Legal Responsibilities: 8.1, 8.2, 8.3 Leadership and Teamwork: 9.2, 9.3, 9.6, 9.7 Technical Knowledge and Skills: 10.1, 10.4, 10.5 Demonstration and Application: 11.1, 11.2 CTE Pathway: B1.1, B1.2, B2.3, B2.4, B3.1, B3.2, B3.3, B4.5, B6.2, B6.3, B6.4, B10.2, B10.3, B10.4, B10.6, B10.6, B10.7, B12.2, B12.3, B12.4

COMPETENCY AREAS AND STATEMENTS	MINIMAL COMPETENCIES	STANDARDS
(Theory: 67 hours) (Community Classroom: 28 hours)	 Assist pharmacists in preparing medications requiring compounding of non-sterile products. Explain accepted procedures in purchasing pharmaceuticals, devices, and supplies. Explain accepted procedures in inventory control of medications, equipment, and devices. Explain accepted procedures utilized in identifying and disposing of expired medications. Explain accepted procedures in delivery and documentation of immunizations. Prepare, store, and deliver medication products requiring special handling and documentation. 	
H. PATIENT CARE, SAFETY, AND QUALITY ASSURANCE Demonstrate patient care, patient safety, and quality assurance.	 Ensure accuracy, authenticity, and safety on completeness of prescription/medication orders Explain the <i>Pharmacists' Patient Care Process</i> and describe the role of the pharmacy technician in the patient care process. Assist pharmacists in the identification and monitoring of patients who desire/require counseling to optimize the use of medications, equipment, and devices Apply patient- and medication-safety practices in aspects of the pharmacy technician's roles. Identify common and severe medications and dietary supplements Maintain pharmacy facilities and equipment Explain basic safety and emergency preparedness procedures applicable to pharmacy services. Describe best practices regarding quality assurance measures according to leading quality organizations. Describe procedures for manufacturing drug products. Demonstrate techniques related to effective packaging of drug products. Demonstrate complete product: manufacturing, packaging, and labeling of a variety of drugs. Use information from Safety Data Sheets (SDS), National Institute of Occupational Safety and Health (NIOSH) Hazardous Drug List, and the United States Pharmacopeia (USP) to identify, handle, dispense, and safely dispose of hazardous medications and materials. Demonstrate proper hand washing, hygiene and cleaning standards when using Personal Protective Equipment, and maintaining facility devices 	Career Ready Practice: 1, 2, 5, 7, 8, 12 CTE Anchor: Communication: 2.1, 2.2, 2.5, 2.6, 2.8 Problem Solving and Critical Thinking: 5.1, 5.2, 5.4, 5.6 Health Safety 6.1, 6.2, 6.3, 6.7 Responsibility and Flexibility 7.2, 7.3, 7.4, 7.7, Ethics and Legal Responsibilities: 8.1, 8.2, 8.3, 8.4, 8.7 Technical Knowledge and Skills: 10.1, 10.2, 10.4 Demonstration and Application: 11.1 CTE Pathway: B1.1, B1.2, B1.4, B5.1, B5.2, B5.5, B6.1, B6.2, B6.3, B6.4, B6.5, B6.6, B7.1, B7.3, B7.4, B10.2, B10.5, B12.2, B12.3, B12.4

COMPETENCY AREAS AND STATEMENTS	MINIMAL COMPETENCIES	STANDARDS
(Theory: 15 hours) (Community Classroom: 25 hours)	 Describe Food and Drug Administration product tracking, tracing, and handling requirements. Apply quality assurance practices to pharmaceuticals, durable and non-durable medical equipment, devices, and supplies. Explain procedures and communication channels to use in the event of a product recall or shortage, a medication error, or identification of another problem. Use current technology to ensure the safety and accuracy of medication dispensing. Obtain certification as a Basic Life Support Healthcare Provider. 	
I. EMPLOYABILITY SKILLS Demonstrate the ability to prepare for and keep employment as a pharmacy technician.	 Describe opportunities in community and clinical based locations. Describe various sites to obtain employment information e.g. internet, newspaper, employment office. Describe application and résumé requirements. Prepare résumé. Complete a sample application form. Describe grooming for an interview. Describe and demonstrate interview techniques for employment. Describe resigning from a position including time element and letter format. Explain the importance of maintaining competency through continuing education and continuing professional development Describe the process and responsibilities required to obtain and maintain registration and/or licensure to work as a pharmacy technician. 	Career Ready Practice: 1, 2, 3, 5, 6, 8, 11 CTE Anchor: Communication: 2.1, 2.2, 2.3, 2.4, 2.5 Career Planning and Management: 3.1, 3.2, 3.4, 3.4, 3.5, 3.6 Technology: 4.1, 4.2 Problem Solving and Critical Thinking: 5.1, 5.2, 5.6 Ethics and Legal Responsibilities: 8.3, 8.4 Technical Knowledge and Skills: 10.1 Demonstration and Application: 11.1, 11.2, 11.5
(Theory: 20 hours)		CTE Pathway: B1.1

SUGGESTED INSTRUCTIONAL MATERIALS and OTHER RESOURCES

TEXTBOOKS

Davis, Karen/Guerra, Anthony. Mosby's Pharmacy Technician Principals and Practice 5th Edition. Elsevier, 2019.

Davis, Karen/Guerra, Anthony. <u>Mosby's Pharmacy Technician Principals and Practice Workbook and Lab Manual 5th</u> <u>Edition</u>. Elsevier, 2019.

Ballington, Don A./ Wiegand-Green, Tova. Pharmacy Calculations for Technicians 5th Edition. Paradigm, 2014

Hamilton, Richard J. Tarascon Pocket Pharmacopoeia Classic Shirt-Pocket 8th Edition. Jones & Bartlett, 2019.

Hochadel, MaryAnne. Mosby's Drug Reference for Health Professions 5th Edition. Elsevier, 2016

Johnston, Mike. Certification Exam Review for the Pharmacy Technician, 3rd Edition. Pearson, 2016.

Mizner, James J. Mosby's Review for the Pharmacy Technician Certification Exam. 3rd Edition. Elsevier, 2016

SUPPLEMENTAL MATERIALS

Darvey, Diane. Legal Handbook of Pharmacy Technicians. American Society of Health System Pharmacists, 2008.

Makely, Sherry. Professionalism in Health Care: A Primer for Career Success, 3rd edition. Prentice-Hall, 2008.

INSTRUCTIONAL MATERIALS

Finkel, Richard. <u>Patient Care Management Lab: A Workbook for Prescription Practice. 2nd Edition</u>. Lippincott Williams & Wilkins, 2011.

DAA Enterprises, Inc. <u>Pharmacy Management Software for Pharmacy Technicians and Workbook. 3rd Edition</u>. Elsevier, 2019.

Davis, Karen, and Jason Sparks. <u>Getting Started in Non-Sterile Compounding Workbook and DVD</u>. American Society of Health System Pharmacists, 2008.

Davis, Karen, and Jason Sparks. <u>Getting Started in Aseptic Compounding Workbook and DVD</u>. American Society of Health System Pharmacists, 2008.

RESOURCES

Teacher prepared slides, films, transparencies, and instructional packages.

Employer Advisory Board members

Foundation Standards http://www.cde.ca.gov/ci/ct/sf/documents/ctestandards.pdf http://www.cde.ca.gov/be/st/ss/documents/ctestandards.doc

California State Board of Pharmacy 1625 N. Market Blvd, Suite N219, Sacramento, CA 95834 Phone (916) 574-7900 Fax (916) 574-8618 Website: <u>http://www.pharmacy.ca.gov</u>

Pharmacy Technician Certification Board 2215 Constitution Avenue NW Washington, DC 20037-2985 Phone (800) 363-8012 Fax (202) 429-7596 Website: <u>http://www.ptcb.org</u>

American Society of Health-System Pharmacists (ASHP) 7272 Wisconsin Avenue Bethesda, MD 20814 Website: <u>http://www.ashp.org</u>

National Pharmacy Technician Association (NPTA) P.O. Box 683148 Houston, TX 77268 Phone: 888-247-8700 Website: http://www.pharmacytechnician.org

American Association of Pharmacy Technicians (AAPT) P.O. Box 1447 Greensboro, NC 27402 Phone (877) 368-4771 Website: <u>http://www.pharmacytechnician.org</u>

COMPETENCY CHECKLIST

TEACHING STRATEGIES and EVALUATION

METHODS AND PROCEDURES

- A. Lecture and discussion
- B. Demonstration/ participation
- C. Multi-sensory presentation
 - 1. Charts
 - 2. Brochures
 - 3. Pharmaceutical equipment and supplies
 - 4. Videos
 - 5. Overhead transparencies
- D. Individualized instruction
- E. Laboratory practice
- F. Community classroom experience
- G. Guest lecturers

EVALUATION

SECTION A – Introduction – Pass all assignments and exams on introduction with a minimum score of 80% or higher.

SECTION B – Safety Procedures – Pass the safety test with 100% accuracy.

SECTION C – Communication and Customer Service – Pass all assignments and exams on communication with a minimum score of 80% or higher.

SECTION D – Pharmacology – Pass all assignments and exams on pharmacology with a minimum score of 80% or higher.

SECTION E – Calculations – Pass all assignments and exams on calculations with a minimum score of 80% or higher.

SECTION F – Laws and Regulations - Pass all assignments and exams on pharmacy laws and regulations

SECTION G – Processing and Handling of Medications and Medications Orders – Pass all assignments and exams on processing and handling of medications and medication orders with a minimum score of 80% or higher.

SECTION H – Patient Care, Safety and Quality Assurance – Pass all assignments and exams on patient care, safety, and quality assurance with a minimum score of 80% or higher.

SECTION I – Employability Skills – Pass all assignments and exams on employability skills with a minimum score of 80% or higher.

Standards for Career Ready Practice

1. Apply appropriate technical skills and academic knowledge.

Career-ready individuals readily access and use the knowledge and skills acquired through experience and education. They make connections between abstract concepts with real-world applications and recognize the value of academic preparation for solving problems, communicating with others, calculating measures, and performing other work-related practices.

2. Communicate clearly, effectively, and with reason.

Career-ready individuals communicate thoughts, ideas, and action plans with clarity, using written, verbal, electronic, and/or visual methods. They are skilled at interacting with others: they are active listeners who speak clearly and with purpose, and they are comfortable with terminology that is common to workplace environments. Career-ready individuals consider the audience for their communication and prepare accordingly to ensure the desired outcome.

3. Develop an education and career plan aligned with personal goals.

Career-ready individuals take personal ownership of their educational and career goals and manage their individual plan to attain these goals. They recognize the value of each step in the educational and experiential process, and they understand that nearly all career paths require ongoing education and experience to adapt to practices, procedures, and expectations of an ever-changing work environment. They seek counselors, mentors, and other experts to assist in the planning and execution of education and career plans.

4. Apply technology to enhance productivity.

Career-ready individuals find and maximize the productive value of existing and new technology to accomplish workplace tasks and solve workplace problems. They are flexible and adaptive in acquiring and using new technology. They understand the inherent risks—personal and organizational—of technology applications, and they take actions to prevent or mitigate these risks.

5. Utilize critical thinking to make sense of problems and persevere in solving them

Career-ready individuals recognize problems in the workplace, understand the nature of the problems, and devise effective plans to solve the problems. They thoughtfully investigate the root cause of a problem prior to introducing solutions. They carefully consider options to solve a problem and, once agreed upon, follow through to ensure the problem is resolved.

6. Practice personal health and understand financial literacy.

Career-ready individuals understand the relationship between personal health and workplace performance. They contribute to their personal well-being through a healthy diet, regular exercise, and mental health activities. Career-ready individuals also understand that financial literacy leads to a secure future that enables career success.

7. Act as a responsible citizen in the workplace and the community.

Career-ready individuals understand the obligations and responsibilities of being a member of a community and demonstrate this understanding every day through their interactions with others. They are aware of the impacts of their decisions on others and the environment around them, and they think about the short-term and long-term consequences of their actions. They are reliable and consistent in going beyond minimum expectations and in participating in activities that serve the greater good.

8. Model integrity, ethical leadership, and effective management.

Career-ready individuals consistently act in ways that align with personal and community-held ideals and principles. They employ ethical behaviors and actions that positively influence others. They have a clear understanding of integrity and act on this understanding in every decision. They use a variety of means to positively impact the direction and actions of a team or organization, and they recognize the short-term and long-term effects that management's actions and attitudes can have on productivity, morale, and organizational culture.

9. Work productively in teams while integrating cultural and global competence.

Career-ready individuals contribute positively to every team, as both team leaders and team members. To avoid barriers to productive and positive interaction, they apply an awareness of cultural differences. They interact effectively and sensitively with all members of the team and find ways to increase the engagement and contribution of other members.

10. Demonstrate creativity and innovation.

Career-ready individuals recommend ideas that solve problems in new and different ways and contribute to the improvement of the organization. They consider unconventional ideas and suggestions by others as solutions to issues, tasks, or problems. They discern which ideas and suggestions may have the greatest value. They seek new methods, practices, and ideas from a variety of sources and apply those ideas to their own workplace practices.

11. Employ valid and reliable research strategies.

Career-ready individuals employ research practices to plan and carry out investigations, create solutions, and keep abreast of the most current findings related to workplace environments and practices. They use a reliable research process to search for new information and confirm the validity of sources when considering the use and adoption of external information or practices.

12. Understand the environmental, societal, and economic impacts of decisions.

Career-ready individuals understand the interrelated nature of their actions and regularly make decisions that positively impact other people, organizations, the workplace, and the environment. They are aware of and utilize new technologies, understandings, procedures, and materials and adhere to regulations affecting the nature of their work. They are cognizant of impacts on the social condition, environment, workplace, and profitability of the organization.

Statement for Civil Rights

All educational and vocational opportunities are offered without regard to race, color, national origin, gender, or physical disability.



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