



# **Medical Assistant (Proc 24)**

PRE-TEST/POST-TEST TEKS BLUEPRINT

# Pre-Test/Post-Test Development Overview

## TEKS Addressed Selection Process

The Texas Essential Knowledge & Skills (TEKS) included in the course pre-test and post-test were selected for their direct relevance to the course content. This selection process was guided by the goal of assessing learners' understanding of specific topics and skills that are integral to the course. As a result, TEKS related to general employability skills or broader topics were often excluded. This focus ensures that the assessments accurately measure students' mastery of the subject matter, allowing educators to gain a clear insight into areas where students excel or may need additional support. By concentrating on content-specific TEKS, the tests provide a more precise evaluation of the students' knowledge and understanding of the core material.

## Test Question Development Process

The questions created for the pre-test and post-test were designed using psychometric principles to ensure they are of high quality and fairness. This approach helps to accurately assess student understanding. These principles guide the development of questions to be reliable, valid, and free from bias, ensuring that they effectively measure the knowledge and skills the students are expected to acquire in the course.

## Medical Assistant (Proc 24) Pre-Test/Post-Test TEKS Blueprint

Knowledge & Skills Statement	Student Expectation	iCEV Lesson Title
(2) The student evaluates the roles and responsibilities of the medical assistant as a member of the healthcare team. The student is expected to:	(A) explain the role of the medical assistant in various healthcare settings;	Roles and Responsibilities of the Healthcare Team
(2) The student evaluates the roles and responsibilities of the medical assistant as a member of the healthcare team. The student is expected to:	(B) discuss the scope of practice, including responsibilities and limitations of a medical assistant;	Roles and Responsibilities of the Healthcare Team
(3) The student applies professional communication skills to provide information to patients and team members in a healthcare setting. The student is expected to:	(B) demonstrate how to communicate with patients, caregivers, and the interdisciplinary team to assist in the planning, delivery, and coordination of patient-centered care;	Communications in Healthcare Settings
(3) The student applies professional communication skills to provide information to patients and team members in a healthcare setting. The student is expected to:	(D) practice conflict-resolution techniques such as cooperation, contribution, compromise, and collaboration in various situations; and	Communications in Healthcare Settings
(3) The student applies professional communication skills to provide information to patients and team members in a healthcare setting. The student is expected to:	(E) practice providing patient education on health-related topics such as clean catch urine collection, the risks and benefits of vaccinations, use of a peak-flow, and nebulizer treatments.	Communications in Healthcare Settings
(4) The student demonstrates knowledge of healthcare ethical principles in their practice of medical assisting. The student is expected to:	(A) evaluate principles of ethical behavior, including beneficence, non-maleficence, justice, and autonomy;	Ethical Principles in Healthcare
(4) The student demonstrates knowledge of healthcare ethical principles in their practice of medical assisting. The student is expected to:	(B) debate ethical issues related to technological advances in health care such as stem cells, robotics, and immunologic therapies in health care;	Ethical Principles in Healthcare
(4) The student demonstrates knowledge of healthcare ethical principles in their practice of medical assisting. The student is expected to:	(C) evaluate ethical issues and legal ramifications related to malpractice, negligence, and liability; and	Ethical Principles in Healthcare
(4) The student demonstrates knowledge of healthcare ethical principles in their practice of medical assisting. The student is expected to:	(D) summarize legal and ethical standards, including Patient Bill of Rights, Advanced Directives, and the Health Insurance Portability and Accountability Act (HIPAA).	Ethical Principles in Healthcare
(5) The student demonstrates knowledge of the administrative duties of a medical assistant in a healthcare setting. The student is expected to:	(B) discuss considerations related to managing an office schedule such as types of scheduling, under booking, over booking, cancellations, add ons, and no-shows;	Administrative Duties of Medical Assistants: Scheduling
(5) The student demonstrates knowledge of the administrative duties of a medical assistant in a healthcare setting. The student is expected to:	(C) define the terms used in medical billing such as diagnosis codes, billing codes, billing cycle, co-pay, deductibles, maximum out-of-pocket, and time of service;	Administrative Duties of Medical Assistants: Medical Billing
(5) The student demonstrates knowledge of the administrative duties of a medical assistant in a healthcare setting. The student is expected to:	(D) describe the elements of completing patient registration such as recording demographics, emergency contact, and insurance information;	Administrative Duties of Medical Assistants: Patient Registration
(5) The student demonstrates knowledge of the administrative duties of a medical assistant in a healthcare setting. The student is expected to:	(E) analyze different types of health insurance coverage, including Medicare, Medicaid, TRICARE, Civilian Health and Medical Program of the Department of Veterans Affairs (CHAMPVA), private insurance, employer-based insurance, and workers' compensation;	Administrative Duties of Medical Assistants: Health Insurance
(5) The student demonstrates knowledge of the administrative duties of a medical assistant in a healthcare setting. The student is expected to:	(F) identify the components of an insurance card such as plan name, group number, ID number, patient co-pay, co insurance, and phone numbers;	Administrative Duties of Medical Assistants: Health Insurance
(5) The student demonstrates knowledge of the administrative duties of a medical assistant in a healthcare setting. The student is expected to:	(H) define electronic health records systems and their components such as demographics, financial insurance information, orders and referrals, correspondence, and test results; and	Administrative Duties of Medical Assistants: Health Records
(5) The student demonstrates knowledge of the administrative duties of a medical assistant in a healthcare setting. The student is expected to:	(I) analyze the benefits and risks of electronic health records systems.	Administrative Duties of Medical Assistants: Health Records
(6) The student uses appropriate medical terminology as a medical assistant. The student is expected to:	(A) use directional terms and anatomical planes related to body structure;	Medical Terminology for Medical Assistants

## Medical Assistant (Proc 24) Pre-Test/Post-Test TEKS Blueprint

Knowledge & Skills Statement	Student Expectation	iCEV Lesson Title
(6) The student uses appropriate medical terminology as a medical assistant. The student is expected to:	(B) use occupationally specific terms such as terms relating to the body systems, surgical and diagnostic procedures, diseases, and treatment; and	Medical Terminology for Medical Assistants
(6) The student uses appropriate medical terminology as a medical assistant. The student is expected to:	(C) apply knowledge of prefixes, suffixes, and root words to translate medical terms to conversational language to facilitate communication.	Medical Terminology for Medical Assistants
(7) The student practices or models patient intake skills as a medical assistant. The student is expected to:	(A) collect and document patient information during an intake interview, including chief complaint; patient care team; past medical, surgical, social, and family histories; patient allergies; and comprehensive medication list;	Medical Assistant Skills: Patient Intake
(7) The student practices or models patient intake skills as a medical assistant. The student is expected to:	(C) identify normal ranges for vital signs per age group, including blood pressure, temperature, heart rate, respiratory rate, and oxygen saturation;	Medical Assistant Skills: Patient Intake
(7) The student practices or models patient intake skills as a medical assistant. The student is expected to:	(D) measure and record accurate vital signs, including manual blood pressure, temperature, heart rate, respiratory rate, and pain scale;	Medical Assistant Skills: Patient Intake
(8) The student demonstrates knowledge and application of point of care testing as a medical assistant. The student is expected to:	(A) define point of care testing;	Medical Assistant Skills: Point-of-Care Testing
(8) The student demonstrates knowledge and application of point of care testing as a medical assistant. The student is expected to:	(C) describe tests that might be performed as a point of care test in an office such as rapid strep, rapid flu, glucose, urine dip, urine pregnancy, vision screening, and electrocardiogram (EKG tests);	Medical Assistant Skills: Point-of-Care Testing
(8) The student demonstrates knowledge and application of point of care testing as a medical assistant. The student is expected to:	(E) locate landmarks for performing a 12-lead electrocardiogram (EKG).	Medical Assistant Skills: Point-of-Care Testing
(9) The student demonstrates knowledge of medication preparation and administration in a clinical setting specific to the role of a medical assistant. The student is expected to:	(A) apply the six rights of medication administration, including right patient, right medication, right dose, right time, right route, and right documentation;	Medical Assistant Skills: Medication Preparation and Administration
(9) The student demonstrates knowledge of medication preparation and administration in a clinical setting specific to the role of a medical assistant. The student is expected to:	(B) identify drug classifications and the indication	Medical Assistant Skills: Medication Preparation and Administration
(9) The student demonstrates knowledge of medication preparation and administration in a clinical setting specific to the role of a medical assistant. The student is expected to:	(D) calculate the amount of medication to administer based on the dosage ordered and the strength of medication supply on hand;	Medical Assistant Skills: Medication Preparation and Administration
(9) The student demonstrates knowledge of medication preparation and administration in a clinical setting specific to the role of a medical assistant. The student is expected to:	(F) identify routes of medication administration, including oral, buccal, sublingual, inhaled, intranasal, otic, ophthalmic, intravaginal, anal, topical, transdermal, intradermal, subcutaneous, intramuscular, intravenous, and intrathecal;	Medical Assistant Skills: Medication Preparation and Administration
(9) The student demonstrates knowledge of medication preparation and administration in a clinical setting specific to the role of a medical assistant. The student is expected to:	(G) use proper technique when preparing medications for administration, including injections, oral, sublingual, inhaled, otic, ophthalmic, and topical;	Medical Assistant Skills: Medication Preparation and Administration
(9) The student demonstrates knowledge of medication preparation and administration in a clinical setting specific to the role of a medical assistant. The student is expected to:	(H) use proper technique when administering medications, including injections, oral, sublingual, inhaled, otic, ophthalmic, and topical;	Medical Assistant Skills: Medication Preparation and Administration
(9) The student demonstrates knowledge of medication preparation and administration in a clinical setting specific to the role of a medical assistant. The student is expected to:	(I) identify appropriate muscle groups for intramuscular injections, including deltoid, vastus lateralis, and ventrogluteal;	Medical Assistant Skills: Medication Preparation and Administration
(9) The student demonstrates knowledge of medication preparation and administration in a clinical setting specific to the role of a medical assistant. The student is expected to:	(K) explain the factors that affect needle size and gauge selection, including medication viscosity, patient size, muscular density; and	Medical Assistant Skills: Medication Preparation and Administration
(9) The student demonstrates knowledge of medication preparation and administration in a clinical setting specific to the role of a medical assistant. The student is expected to:	(L) demonstrate knowledge of syringe styles and markings on various size syringes such as Luer Lock, oral, insulin, TB, 1ml, 3ml, 5ml, and 10ml syringes.	Medical Assistant Skills: Medication Preparation and Administration

## Medical Assistant (Proc 24) Pre-Test/Post-Test TEKS Blueprint

Knowledge & Skills Statement	Student Expectation	iCEV Lesson Title
(10) The student demonstrates knowledge of collecting, labeling, storing, and transferring lab specimens. The student is expected to:	(A) identify how to properly store and transfer lab specimens such as blood, urine, fecal, and sputum samples;	Medical Assistant Skills: Lab Specimens
(10) The student demonstrates knowledge of collecting, labeling, storing, and transferring lab specimens. The student is expected to:	(C) select the proper collection tubes for specific types of blood tests such as complete blood count (CBC), comprehensive metabolic panel (CMP), and lipid panel;	Medical Assistant Skills: Lab Specimens
(10) The student demonstrates knowledge of collecting, labeling, storing, and transferring lab specimens. The student is expected to:	(D) locate veins used for blood draws;	Medical Assistant Skills: Lab Specimens
(10) The student demonstrates knowledge of collecting, labeling, storing, and transferring lab specimens. The student is expected to:	(E) demonstrate proper technique and post procedural care for veinous blood draws; and	Medical Assistant Skills: Lab Specimens
(11) The student demonstrates knowledge of patient populations and their specific care considerations. The student is expected to:	(A) discuss and identify stages of development throughout a patient's lifespan;	Understanding Patient Populations
(11) The student demonstrates knowledge of patient populations and their specific care considerations. The student is expected to:	(B) describe coping and defense mechanisms exhibited by patients such as emotion-focused behaviors, problem focused behaviors, denial, displacement, intellectualization, projection, rationalization, and regression;	Understanding Patient Populations
(11) The student demonstrates knowledge of patient populations and their specific care considerations. The student is expected to:	(D) practice appropriate methods of care for working with patients with mental, physical, and developmental disabilities;	Understanding Patient Populations
(11) The student demonstrates knowledge of patient populations and their specific care considerations. The student is expected to:	(E) explain how socioeconomic factors such as income, transportation, access to community resources, employment, and education level can influence patient outcomes; and	Understanding Patient Populations
(11) The student demonstrates knowledge of patient populations and their specific care considerations. The student is expected to:	(F) explain how various multicultural values can affect patient care decisions.	Understanding Patient Populations
(12) The student demonstrates knowledge of safety practices and procedures as related to medical assisting. The student is expected to:	(B) identify various modes of disease transmission, including vector borne, air borne, direct or indirect contact, and vehicle;	Medical Assistant Skills: Safety Practices and Procedures
(12) The student demonstrates knowledge of safety practices and procedures as related to medical assisting. The student is expected to:	(E) apply the knowledge of PPE used in various situations such as venipuncture, collecting a throat swab, or dipping urine;	Medical Assistant Skills: Safety Practices and Procedures
(12) The student demonstrates knowledge of safety practices and procedures as related to medical assisting. The student is expected to:	(F) demonstrate proper putting on (donning) and removing (doffing) of PPE;	Medical Assistant Skills: Safety Practices and Procedures
(12) The student demonstrates knowledge of safety practices and procedures as related to medical assisting. The student is expected to:	(G) define the use of a sharps container, biohazard container, shredding bin, and trash receptacle;	Medical Assistant Skills: Safety Practices and Procedures
(12) The student demonstrates knowledge of safety practices and procedures as related to medical assisting. The student is expected to:	(I) identify symptoms of anaphylaxis and the proper emergency response;	Medical Assistant Skills: Safety Practices and Procedures
(12) The student demonstrates knowledge of safety practices and procedures as related to medical assisting. The student is expected to:	(J) explain storage requirements for medications, vaccines, and lab specimens;	Medical Assistant Skills: Safety Practices and Procedures
(12) The student demonstrates knowledge of safety practices and procedures as related to medical assisting. The student is expected to:	(L) define and apply knowledge of medical asepsis	Medical Assistant Skills: Safety Practices and Procedures