

## ARIZONA CTE CAREER PREPARATION STANDARDS & MEASUREMENT CRITERIA

<b>DENTAL ASSISTING - 51.0600</b>	
<b>1.0</b>	<b>DEMONSTRATE DENTAL OFFICE BUSINESS PROCEDURES</b>
1.1	Explain the importance of patient scheduling depending on treatment time requirement
1.2	Describe the function of a recall system
1.3	Prepare and maintain patient clinical records
1.4	Prepare and maintain patient financial records
1.5	Prepare and maintain inventory control and purchasing
1.6	Perform knowledge of coding, billing, and third party payment
1.7	Describe public relations responsibilities of the dental team
1.8	Use front office business equipment
1.9	Maintain the dental office environment
1.10	Receive and dismiss patients and visitors
1.11	Identify psychological considerations influencing behaviors of dental patients
1.12	Identify emergency and evacuation plans for the office
<b>2.0</b>	<b>USE INFORMATION TECHNOLOGY TOOLS COMMONLY FOUND IN DENTAL SETTINGS</b>
2.1	Describe technology applications commonly found in the dental office
2.2	Demonstrate basic computer hardware and software skills
2.3	Interpret information from electronic patient documents, such as referrals, lab tracking slips, and radiographs, and direct to appropriate entity for processing/treatment
2.4	Identify technological tools to expedite workflow, including word processing, databases, reports, spreadsheets, multimedia presentations, electronic calendar, contacts, email, and internet applications
2.5	Use patient database applications to increase workplace efficiency
2.6	Employ dental management software to access, create, manage, integrate, and store dental practice information
<b>3.0</b>	<b>DEMONSTRATE DISEASE PREVENTION, INFECTION CONTROL, AND WASTE MANAGEMENT PROCEDURES</b>
3.1	Differentiate between pathogenic and non-pathogenic microorganisms

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3.2	Describe pathogens and modes of disease transmission
3.3	Differentiate between aseptic and non-aseptic environments
3.4	Perform hand hygiene protocols
3.5	Select and use personal protective equipment as needed
3.6	Apply methods of surface cleaning and disinfection
3.7	Perform instrument processing and sterilization
3.8	Compare and contrast products used to control the spread of disease in the dental office environment
3.9	Comply with state and federal regulations for infection control and disease prevention (CDC)
3.10	Identify and apply the OSHA Bloodborne Pathogens Standard (29CFR-1910.1030) applicable to the dental office environment
3.11	Identify and apply the OSHA Hazard Communications Standard (29CFR-1910.1200) applicable to the dental office environment
<b>4.0</b>	<b>IDENTIFY STRUCTURES AND FUNCTIONS OF ORAL, HEAD, AND NECK ANATOMY AND RELATED DENTAL PATHOLOGIES</b>
4.1	Identify structures and functions of head and neck anatomy including bones, muscles, sinuses, salivary glands, nerve, and blood vessels
4.2	Identify embryonic development of head, oral cavity, and teeth
4.3	Identify dental anatomy, tooth morphology, and tooth surfaces
4.4	Identify oral structures and landmarks
4.5	Differentiate among dental numbering systems
4.6	Describe histological components of the oral cavity, teeth, and periodontium
4.7	Recognize and describe dental pathological conditions and their development
<b>5.0</b>	<b>MAINTAIN AND UTILIZE DENTAL INSTRUMENTS AND EQUIPMENT</b>
5.1	Maintain and operate operatory, lab, and sterilization equipment
5.2	Identify types and functions of restorative, surgical, prosthodontic, orthodontic, periodontal, and endodontic dental instruments
5.3	Maintain dental instruments and hand pieces
5.4	Identify types and functions of dental hygiene instruments with emphasis on category rather than individual

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	instruments
5.5	Maintain and operate an evacuation system
<b>6.0</b>	<b>IDENTIFY FUNCTIONS OF PHARMACOLOGY AND ANESTHESIA RELATED TO DENTISTRY</b>
6.1	Identify drug classification, agencies, and regulations
6.2	Record dispensed or prescribed drugs in the patient's clinical record
6.3	Use drug references to identify drug actions, side effects, indications, and contraindication
6.4	Identify common drugs used in dentistry
6.5	Prepare and apply a topical anesthetic agent
6.6	Identify types and properties of local anesthetics
6.7	Prepare syringes for the administration of local anesthetics
6.8	Monitor patients and identify precautions in the use of nitrous oxide-oxygen conscious sedation
<b>7.0</b>	<b>MANIPULATE DENTAL MATERIALS</b>
7.1	Identify properties and uses and manipulate gypsum
7.2	Identify properties and uses and manipulate restorative materials
7.3	Identify properties and uses and manipulate dental cements
7.4	Identify properties and uses, manipulate impression materials, and obtain an impression
7.5	Identify properties and uses and manipulate acrylics and/or thermoplastics
7.6	Identify properties and uses and manipulate waxes
7.7	Perform dental laboratory procedures to include the fabrication of casts, custom trays, and/or temporary crowns and bridges
7.8	Clean and polish removable dental appliances
7.9	Identify properties and uses of abrasive agents used to polish coronal surfaces and appliances
7.10	Identify and manage hazardous dental materials and wastes in accordance with local, state, and federal regulations
<b>8.0</b>	<b>DEMONSTRATE DENTAL RADIOGRAPHIC PROCEDURES FOR DIAGNOSIS</b>
8.1	Describe the history, physics, and biological effects of ionizing radiation

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8.2	Identify parts of the X-ray machine including accessories
8.3	Perform radiologic health protection techniques
8.4	Perform radiographic procedures
8.5	Describe proper disposal of hazardous radiographic waste
8.6	Place and expose dental radiographic/image receptor
8.7	Identify radiographic anatomical landmarks and pathologies
8.8	Mount radiographic surveys
8.9	Maintain unexposed film inventory and storage including appropriate biohazardous properties
8.10	Utilize various radiographic imaging techniques
<b>9.0</b>	<b>DEMONSTRATE CHAIRSIDE PROCEDURES FOR DENTISTRY</b>
9.1	Prepare and maintain the aseptic working area, including the sterilization of instruments for intraoral/extraoral procedures
9.2	Apply principles of four-handed dentistry
9.3	Assist with restorative and specialty procedures
9.4	Evacuate and maintain the operating field
9.5	Perform functions as permitted by the Arizona statute/law pertaining to chairside assisting in general and specialty settings
9.6	Prepare tray sets and operatory to assist in general and specialty dental procedures
9.7	Select, prepare, and manipulate dental materials for general and specialty procedures
9.8	Perform visual assessment of existing oral conditions
9.9	Perform patient management practices to meet individual patient need
<b>10.0</b>	<b>RECORD PATIENT ASSESSMENT AND TREATMENT DATA</b>
10.1	Record medical and dental histories, including the use of recreational drugs, homeopathies, and OTC drugs; existing restorative and oral conditions; and recent accidents and surgeries
10.2	Record existing oral conditions
10.3	Record conditions diagnosed by the dentist

## ARIZONA CTE CAREER PREPARATION STANDARDS & MEASUREMENT CRITERIA

10.4	Record treatment-related data in the patient's clinical record, e.g., post-operative instruction, reactions to treatment, and referrals
10.5	Record treatment plan and treatment provided in patient's clinical chart
<b>11.0</b>	<b>DEMONSTRATE TECHNIQUES OF PREVENTIVE DENTISTRY</b>
11.1	Instruct patients on oral homecare and oral disease prevention
11.2	Apply anticariogenic treatments
11.3	Perform coronal polishing procedures
11.4	Identify principles of nutrition essential for a healthy lifestyle
11.5	Identify dietary practices that contribute to negative health consequences
<b>12.0</b>	<b>RECOGNIZE AND RESPOND TO EMERGENCY SITUATIONS</b>
12.1	Obtain, monitor, and record vital signs
12.2	Describe legal parameters relating to administration of emergency care
12.3	Obtain and maintain training and/or certification in cardiopulmonary resuscitation (CPR) approved by the Dental Assisting National Board (DANB)
12.4	Recognize common emergencies, emergency preventive measures, and emergency response strategies
<b>13.0</b>	<b>DESCRIBE THE LEGAL AND ETHICAL RESPONSIBILITIES OF THE DENTAL HEALTHCARE WORKER</b>
13.1	Define commonly used legal vocabulary related to dentistry
13.2	Describe ethical considerations/obligations in the dental team-patient relationship
13.3	Explain risk management
13.4	Describe the Arizona State Dental Practice Act as it applies to the practice of dental assisting
13.5	Follow HIPPA laws related to the practice of dentistry
<b>14.0</b>	<b>DEMONSTRATE MATHEMATICS AND SCIENCE KNOWLEDGE AND SKILLS</b>
14.1	Draw, read, and report using graphs, charts, and tables
14.2	Measure time, temperature, distance, capacity, and mass/weight
14.3	Make, use, and convert weights and measures using both traditional and metric units
14.4	Organize and communicate results obtained by observations and experimentation

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14.5	Differentiate between digital clock and analog clock
14.6	Convert to and from 12-hour time format and 24-hour format
14.7	Evaluate and draw conclusions
14.8	Formulate scientifically investigable questions, construct investigations, collect and evaluate data, and develop scientific recommendations based on findings
14.9	Perform knowledge of arithmetic operations
14.10	Analyze and apply data and measurements to solve problems and interpret documents
14.11	Explain the role of creativity in constructing scientific questions, methods, and explanations
<b>15.0</b>	<b>DEMONSTRATE LANGUAGE ARTS KNOWLEDGE AND SKILLS</b>
15.1	Locate, comprehend, and evaluate oral and written information
15.2	Draft, revise, and edit written documents using correct grammar, punctuation, and vocabulary
15.3	Present information formally and informally for specific purposes and audiences in oral and written formats
15.4	Use dental terminology in the dental environment
<b>16.0</b>	<b>KEEP CURRENT WITH PRODUCTS, SERVICES, AND INDUSTRY TRENDS</b>
16.1	Read professional journals
16.2	Participate in professional organizations and meetings
16.3	Attend educational seminars
16.4	Comprehend changes in local, state, and federal dental laws and regulations