



How to Create an Interactive Dental Assistant Pathway Program

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We partner with educators, administrators and industry leaders to ensure our offerings meet their needs and make lessons truly meaningful.

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Presented by

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Senior Product Manager

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Agenda

- Building a Dental Assistant Pathway
- Industry Recognized Credentials
- Hands-On Resources
- Curriculum
- Additional Resources
- Q&A

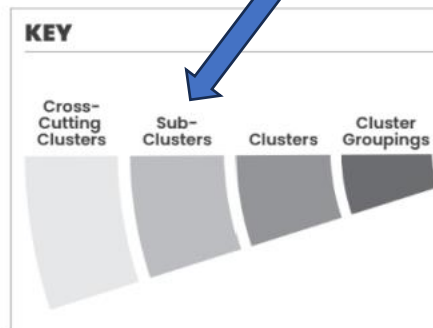
Building a Dental Assistant Pathway



The Framework: Grid View

Behavioral & Mental Health
Biotechnology Research & Development
Community & Social Services
Health Data & Administration
Personal Care Services
Physical Health

Healthcare & Human Services





Physical Health

Careers in healthcare that directly affect the physical well-being of individuals by providing medical care, conducting diagnostics, offering therapeutic services, administering pharmaceuticals, and supporting nutrition and dental health. This Sub-Cluster encompasses healthcare from prebirth to death, addressing all stages from pediatrics to geriatrics and mortuary sciences. It also includes careers that offer alternative and complementary health services such as homeopathy, acupuncture, and others that focus on the holistic well-being of individuals.



Building Your Plan of Study

EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Health Science	SAMPLE Occupations Relating to This Career Cluster
Interest Inventory Administered and Plan of Study Initiated for all Learners								
SECONDARY	9	English/ Language Arts I	Algebra I	Dependent on chosen pathway	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work- based experiences. A foreign language is	**Health Science I: introduction to Health Science **information Technology Applications	Occupations Requiring Less than Baccalaureate Degree ► Dental Assistant/Hygienist ► EMT/Paramedic ► Health Information Coder ► Home Health Aide Occupations Requiring Baccalaureate Degree ► Radiographer ► Registered Nurse ► Athletic Trainer ► Biochemist ► Biostatistician ► Geneticist ► Industrial Hygienist ► Nutritionist ► Occupational Therapist ► Physician (MD/DO) ► Physician's Assistant ► Psychologist ► Radiologist ► Research Scientist ► Speech/Language Pathologist ► Toxicologist ► Veterinarian
	10	English/ Language Arts II	Dependent on chosen pathway	Dependent on chosen pathway	U.S. History		**Health Science II: Health, Safety and Ethics in the Health Environment	
	11	English/ Language Arts III	Dependent on chosen pathway	Dependent on chosen pathway	World History Sociology		**Health Science III: Employment in Health Occupations	
	College Placement Assessments-Academic/Career Advisement Provided							
12	English/ Language Arts IV	Dependent on chosen pathway	Dependent on chosen pathway	Psychology Economics	Continue courses pertinent to the pathway selected.			
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.								
POSTSECONDARY	Year 13	English Composition	Dependent on chosen pathway	Dependent on chosen pathway	American Govt. Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include. Work-based learning is an integral part of this Career Cluster.	Continue courses pertinent to the pathway selected.	
	Year 14	Speech/ Oral Communication Technical Writing	Dependent on chosen pathway	Dependent on chosen pathway	American History Sociology			
	Year 15	Continue courses in the area of specialization.						
	Year 16							

High school

Post-Secondary

****Health Science I: Introduction to Health Science**

****Information Technology Applications**

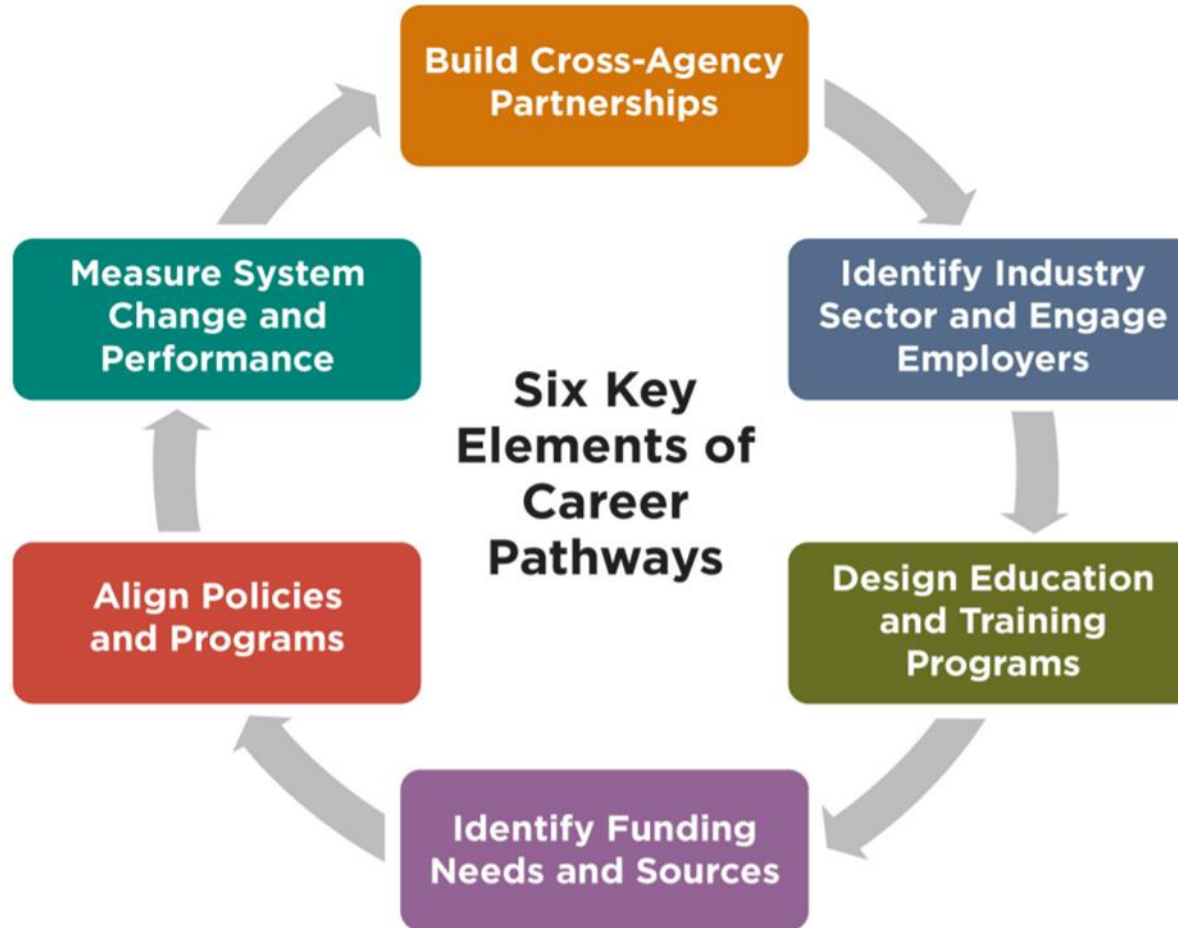
****Health Science II: Health, Safety and Ethics in the Health Environment**

****Health Science III: Employment in Health Occupations**

Continue courses pertinent to the pathway selected.

<https://careertech.org/wp-content/uploads/sites/default/files/PlanStudy-CareerCluster-HS.pdf>

Six Key Elements for Developing Career Pathways



Where Should I Begin? Standards

National Health Science Education Standards



The screenshot shows the NCHSE website homepage. At the top is a dark blue navigation bar with the NCHSE logo and text 'National Consortium for Health Science Education'. To the right of the logo are links for 'ABOUT', 'CURRICULUM', 'RESOURCES', and 'PROFESSIONAL DEVELOPMENT', followed by a shopping cart icon and a magnifying glass icon. A green 'JOIN TODAY' button is on the far right. Below the navigation bar is a large blue banner with the text 'Free Resource' and 'Download our free Crosswalk Curriculum Template.' A green 'DOWNLOAD' button is positioned below this text. Further down, on a light blue background, is the heading 'Align Your Health Science Curriculum to the National Health Science Standards'. Below this heading is a paragraph explaining the standards. A green 'ACCESS THE STANDARDS' button is centered below the paragraph. At the bottom of the page, there are two green buttons: 'MIDDLE SCHOOL EVENTS' and 'SECONDARY/POSTSECONDARY EVENTS'.

NCHSE
National Consortium for Health Science Education

ABOUT ▾ CURRICULUM ▾ RESOURCES ▾ PROFESSIONAL DEVELOPMENT ▾ 🛒 🔍

Free Resource
Download our free Crosswalk Curriculum Template.

DOWNLOAD

Align Your Health Science Curriculum to the National Health Science Standards

The health science standards offer an answer to the question, "What does a worker need to know and be able to contribute to the delivery of safe and effective healthcare?" The standards represent core expectations transferrable to many health professions.

ACCESS THE STANDARDS

NCHSE's National Health Science Standards and HOSA-Future Health Professionals' Competitive Events Program crosswalk is a valuable resource designed to help health science teachers and HOSA advisors integrate and reinforce these industry-recognized national standards through engaging competitive events. This tool supports curriculum planning, ensures alignment with educational content, and guides students in selecting appropriate competitive events for their success. These middle school and secondary/postsecondary events crosswalks supports the curricular value of HOSA as a career and technical student organization.

MIDDLE SCHOOL EVENTS **SECONDARY/POSTSECONDARY EVENTS**



[Standards | National Consortium for Health Science Education \(healthscienceconsortium.org\)](https://healthscienceconsortium.org/standards)

Health Science Standard Alignment Template



National Health Science Standards Crosswalk

The crosswalk template is a working resource to document where the National Health Science Standards (NHSS) being met in their courses. This resource provides teachers a way to ensure all the NHSS have been taught in your health science courses throughout your program. The curriculum column can be used to include examples such as: what lesson is used to teach the standard, which chapter in a particular resource, an activity, project, or PPT, and educational resource used to support teaching of the standard.

Foundation Standard 1: Academic Foundation

Understand human anatomy, physiology, common diseases and disorders, and medical math principles.

1.1 Human A&P	Subcategories	Curriculum	Courses
1.1.1 Describe the organization of the human body and directional terms.			
a. Identify levels of organization	- Cellular - Chemical - Organ - Organism - System - Tissue		
b. Demonstrate anatomical position			
c. Identify body planes	- Coronal / Frontal - Midsagittal - Sagittal - Transverse/Horizontal		
d. Use directional terms	- Anterior / Posterior - Cephalic/Caudal - Medial / Lateral - Proximal / Distal - Superficial / Deep - Superior / Inferior - Ventral/Dorsal		

<https://mailchi.mp/healthscienceconsortium/curriculum-crosswalk>

National Dental Assistant Standards

- <https://coda.ada.org/>

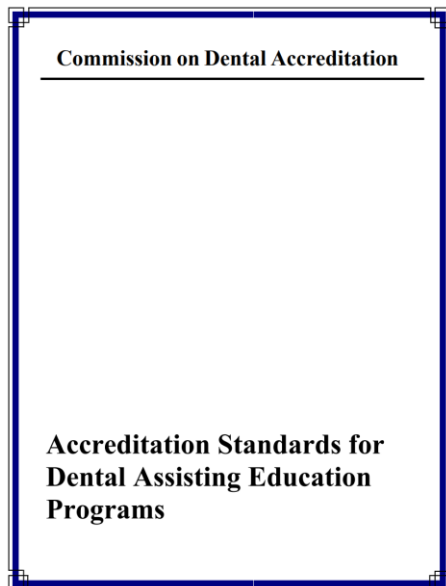


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Common Career Technical Core Standards

- Includes general Health Science cluster standards
- Identifies standards for each of the pathways

[CCTC Standards Formatted 2014.pdf](#)



State Standards

[Home](#) | [Strategic Planning](#) | [Licensing](#) | [Families & Students](#) | [Schools & Educators](#) | [Libraries](#) | [Data & Media](#)



Select Language ▼

Search



Health Science
Standards
Licensure
CTSO - HOSA
Resources ▼

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Stay up to date on the latest news in health science education.

Related Links

HEALTH SCIENCE EDUCATION STANDARDS

Health Science Education Standards

The Wisconsin Health Science Occupations Skill Standards would be included in a Health Science Occupations student proficient for an entry level training program on the basis of the Wisconsin Health Science Occupations Skill Standards.

National Consortium of Health Science Education (NCHSE) several sub-sections. The National Healthcare Foundation Criteria answers the question, "What does a worker need to contribute to the delivery of safe and effective health care? What are the expectations most workers need in order to succeed in continuous formal preparation on the job."

There are five Pathway Standards, divided by career cluster:

1. The Therapeutic Services Pathway Standards apply to changing the health status of a patient over time.
2. The Diagnostic Pathway Services Standards apply to picture of a patient's health status at a single point in time.



College, Career and Technical Education

May 2023

Dental Science

Primary Career Cluster:	Health Science
Course Contact:	CTE.Standards@tn.gov
Course Code(s):	C14H21
Prerequisite(s):	Health Science (C14H14)
Credit:	1
Grade Level:	11-12
Focus Elective Graduation Requirements:	This course satisfies one of three credits required for an elective focus when taken in conjunction with other Health Science courses.
POS Concentrator:	This course satisfies one out of two required courses to meet the Perkins V concentrator definition, when taken in sequence in the approved program of study.
Programs of Study and Sequence:	This is the second or third course in the <i>Therapeutic Services</i> program of study.
Aligned Student Organization(s):	HOSA: http://www.tennesseehosa.org
Coordinating Work-Based Learning:	Teachers are encouraged to use embedded WBL activities such as informational interviewing, job shadowing, and career mentoring. For information, visit https://www.tn.gov/education/educators/career-and-technical-education/work-based-learning.html .
Promoted Tennessee Student Industry Credentials:	Credentials are aligned with postsecondary and employment opportunities and with the competencies and skills that students acquire through their selected program of study. For a listing of promoted student industry credentials, visit https://www.tn.gov/content/tn/education/educators/career-and-technical-education/student-industry-certification.html .
Teacher Endorsement(s):	577, 720
Required Teacher Certifications/Training:	None
Teacher Resources:	https://www.tn.gov/education/educators/career-and-technical-education/career-clusters/cte-cluster-health-science.html Best for All Central: https://bestforall.tnedu.gov/

NORTH CAROLINA

CTE Course Inventory and Essential Standards

CAREER AND TECHNICAL EDUCATION2023-2024



Agricultural Education

Business, Finance, and Marketing Education

Career Development Education

Computer Science, IT, and Technology Education

Family and Consumer Sciences Education

Health Science Education

Trade and Industrial Education

North Carolina Department of PUBLIC INSTRUCTION



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Look for Established Programs of Study

Dental Assisting Program of Study

Dental assisting programs of study deliver a curriculum which provides students with knowledge and skills related to the field of dental health. Program components may include clerical and administrative tasks, maintaining computerized dental records, medical terminology, patient communication, infection control and sterilization techniques, preparation of restorative and impression materials, dental radiography, and CPR. The didactic learning combined with supervised clinical experience (see below) comprises a program of study.

Dental assisting programs of study which are *not* approved/registered ([Inventory of Registered Programs](#)) through the **New York State** Office of Professions, are considered dental chairside programs and prepare students only for unlicensed dental assisting careers.

NY

TX

HS Endorsement: Public Service			
9th Grade	10th Grade	11th Grade	12th Grade
Principles of Health Sciences	Medical Terminology	Health Science (Clinical) 1.0 Medical Microbiology	Practicum in Health Science Pathophysiology

Course Content

- Administrative Dental Skills
- Oral & Dental Anatomy and Health
- Dental Radiology
- Infection Control
- Instrument Identification & Use
- Lecture & Lab Sessions
- Dental Procedures
- Effective Communication
- Customer Service

Look for Established Programs of Study

- 2-4 Semesters
- CAREER CLUSTER
- Pathway Title
- High School Courses
- College Credits
- Industry Certifications
- Internships and Work Experiences

HEALTH SCIENCE

Dental

Principles of Dental Careers

Dental Career Fundamentals

Advanced Dental Careers Capstone (second-year students)

DENT 171: Dental Terminology

HLHS 101: Medical Terminology (second-year students)

ISDH Dental Radiography

CPR/AED

First Year: Six-week placement in a dentist's office.

Second Year: year long internship placement in a dental office or facility.

IN

AZ



Dental Assisting 1 & 2 Scope & Sequence: Year 1

Semester 3		Semester 4	
Quarter 1	Quarter 2	Quarter 3	Quarter 4
Technical Standards: 1.7, 1.11, 13.0, 15.0 Professional Standards: 8A, 8D, 8E Unit 1 Introduction to Dental Assisting - History of Dental - The Dental Team - Basic Communication - AZ and Federal Laws (HIPAA) - Dental Assisting National Board Technical Standards: 4.1 Professional Standards: 1.A, 2.B, 3.B Unit 2 Basic Dental Science - General Neck Anatomy - Head and Neck Anatomy Technical Standards: 4.2, 4.3, 4.5-4.7 Professional Standards: 1.B, 1.D, 3.D Unit 3 Oral Anatomy - Oral Embryology and Histology - Landmarks of the face and Oral Anatomy	Technical Standards: 4.3 Professional Standards: 1.A, 1.B, 6.C Unit 4 Tooth Morphology - Identify Dental Anatomy - Tooth Morphology Technical Standards: 4.5 Professional Standards: 1.A, 1.D, 2.C, 3.B Unit 5 Tooth Numbering - Tooth Numbering Systems - Tooth Chart - Permanent and Primary Dentition Technical Standards: 11.1, 11.4, 11.5 Professional Standards: Unit 6 Oral Health - Preventative Techniques - Nutrition Technical Standards: 5.2, 7.9, 10.3, 11.2, 11.3 Professional Standards: 4.A, 6.A, 6.B, 6.C	Technical Standards: 3.0 Professional Standards: 8C Unit 7 Infection Control and Lab Safety - Intro to Microbiology - OSHA Hazard Communications - CDC guidelines for Dental Healthcare Workers - Infection Control Process - Management of Hazard Materials *Lab Safety Exam Technical Standards: 2.0 Professional Standards: 1.C, 2.C, 3.C, 4.B, 5.A Unit 8 Computer Applications - Technology Applications - Dental Management Software - Electronic Dental Charting Technical Standards: 5.1, 10.0, 12.1, 14.1, 14.2, 14.4-14.6 Professional Standards: 5.0, 6.0, 8.0 Unit 9 Introduction to Patient Care - Intro to Chairside Assisting - Patient Records/Med HX - Vital Signs Technical Skills Assessment National Board Certifications	Technical Standards: 10.2-10.5 Professional Standards: 1.0, 2.0, 4.A, 4.B, 5.0 Unit 10 Clinical Charting - Dental Charting Existing Conditions - Dental Charting - Diagnosis/Treatment Plan - Patient Clinical Records Technical Standards: 6.0 Professional Standards: 1.0, 6.0, 8.0, 9.0 Unit 11 Anesthesia and Sedation - Pharmacology - Anesthetics - Sedation Techniques

TUCSON UNIFIED
SCHOOL DISTRICT

51% of the entire program will be conducted in a lab setting. The lab consists of hand-on learning projects and experiences where student will practice the necessary skills to complete the current unit study.



Dental Assisting 3 & 4 Scope & Sequence: Year 2

Semester 3		Semester 4	
Quarter 1	Quarter 2	Quarter 3	Quarter 4
Technical Standards: 3.0, 4.2, 4.3, 4.5 - 4.7, 5.1, 10.0, 12.1, 14.1, 14.2, 14.4 - 14.6 Professional Standards: 3.0, 4.0, 5.0, 8.0 Unit 1 REVIEW FROM YEAR 1 - Tooth numbering - Charting - PPE - Infection Control - Lab Safety Technical Standards: 1.9, 1.10, 1.13, 5.1, 5.3, 5.4, 5.5, 6.7, 9.0 Professional Standards: 1.0, 3.0, 4.0 Unit 2 Clinical Dental Procedures - Basic Chairside Assisting - Instrument Identification - Isolation & Oral Evacuation - Instrument Transfer - Amalgam - Composite - Lab Procedures Technical Standards: 2.5 Professional Standards: 1.0, 4.0, 5.0 Unit 3 Introduction to Dental Specialties - Endodontics - Endo Procedures - Tray Set Up - Lab Procedures	Technical Standards: 5.0 Professional Standards: 6.0, 7.0 Unit 4 Oral & Maxillofacial Surgery - Oral Surgery Procedures - Tray Set-Up - Lab Procedures Technical Standards: 5.2 Professional Standards: 4.0, 5.0 Unit 5 Orthodontics - Orthodontic Procedures - Tray Set-Up - Lab Procedures Technical Standards: 11.0 Professional Standards: 4.0, 5.0 Unit 6 Preventative Dentistry - Pediatric Dentistry - Fluoride & Sealants - Lab Procedures Technical Standards: 5.2, 7.9, 10.3, 11.2, 11.3 Professional Standards: 4.0, 5.0 Unit 7 Perio/Coronal Polish - Periodontal Disease - Coronal Polishing - Lab Procedures	Technical Standards: 12.0 Professional Standards: 4.0, 5.0 Unit 8 CPR & First Aid - CPR/BLS/AED - Emergency Management *American Heart Association CPR/First Aid Certification Technical Standards: 3.0 Professional Standards: 8C Unit 9 OSHA - OSHA Bloodborne Pathogens - OSHA Hazard Communications *OSHA 10 Medical Certification Technical Standards: 7.0 Professional Standards: 5.0, 8.0 Unit 10 Dental Materials - Dental Cements - Restorative & Impression Materials - Provisional Coverage Technical Standards: 5.2, 7.8, 7.9 Professional Standards: 4.0, 5.0 Unit 11 Removable Prosthodontics - Dentures & Lab Procedures *Technical Skills Assessment Industry Certification Testing	Technical Standards: 5.2 Professional Standards: 4.0, 5.0, 6.0 Unit 12 Fixed Prosthodontics - Crown & Bridge & Lab Procedures Technical Standards: 8.0, 14.3, 14.7-14.9 Professional Standards: 4.0, 5.0, 6.0 Unit 13 Dental Radiography - Introduction to Radiography & Equipment - Production of Dental Radiographs - Evaluation of Dental Radiographs - Extraoral Radiography - Digital Radiography Technical Standards: 1.0 Professional Standards: 2B, 8I, 9.0 Unit 14 Dental Office Management - Inventory & Supplies - Office Business Procedures Technical Standards: 1.0 Professional Standards: 10, 3A, 4.0 Unit 15 Professionalism - Resume Writing & Mock Interviews *Summer Externship Experience

TUCSON UNIFIED
SCHOOL DISTRICT

51% of the entire program will be conducted in a lab setting. The lab consists of hand-on learning projects and experiences where student will practice the necessary skills to complete the current unit study.

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Build an Advisory Council

Invite 5-10 industry professionals to participate in a health science advisory council

Meet several times per year

Focus on outcomes – what are employers looking for

Are you teaching the right things?

Form partnerships for field experience, job shadowing, guest speaker opportunities



Industry Recognized Credentials and Certifications



Seek Industry-Recognized Certifications

Does your state
dep. recommend a
specific certification
or testing agency?

Are your instructors
licensed to teach
dental assisting
courses?

What are local
employers looking
for?

Is employment
transferable?

What is the cost of
certification or a
specific credential?

National Organizations with Certifications

AMT

- Registered Dental Assistant (RDA) <https://americanmedtech.org/Dental-Assistant>

American Medical Certification Association (AMCA)

- Dental Support Technician Certification (DSTC) <https://www.amcaexams.com/certifications/dental-support-technician-certification/>

National Occupational Competency Testing Institute (NOCTI)

- Dental Assisting
<https://www.nocti.org/wp-content/uploads/2020/09/JRDentalAsstg4226.pdf>

National Board for Certification in Dental Laboratory Technology

- National Dental Technician
<https://nbccert.org/certificants/certified-dental-technician/>

American Medical Technologists (AMT)



About AMT

- ▶ **Established in 1939** by allied health professionals
- ▶ Not-for-profit certification and professional membership association
- ▶ **Diverse and unique membership** across the **medical, dental, and laboratory** allied health fields
 - ▶ 12 allied healthcare certifications
- ▶ Known and recognized by employers for our **quality-driven** certification standards



Certification is Important

AMERICAN MEDICAL TECHNOLOGISTS

AMT Dental Certifications

- ▶ Registered Dental Assistant (RDA)
- ▶ Dental Assisting Radiography (DAR)

Certifications

Medical & Dental

- ▶ Registered Medical Assistant (RMA)
- ▶ Registered Phlebotomy Technician (RPT)
- ▶ Patient Care Technician (PCT)
- ▶ Certified Medical Administrative Specialist (CMAS)
- ▶ Registered Dental Assistant (RDA)
- ▶ Dental Assisting Radiography (DAR)

Laboratory

- ▶ Medical Laboratory Scientist (MLS)
- ▶ Medical Laboratory Technician (MLT)
- ▶ Molecular Diagnostics Technologist (MDT)
- ▶ Certified Medical Laboratory Assistant (CMLA)
- ▶ Certified Laboratory Consultant (CLC)

Health Instruction

- ▶ Allied Health Instructor (AHI)



What is Certification?

- ▶ Different than a certificate or other credential
- ▶ **Third-party validation** of knowledge and skills acquired
 - ▶ Curriculum and exam are from different entities
 - ▶ No “teaching to the test”
- ▶ Mostly designed/administered by a **professional non-profit**
- ▶ Typically has an **experiential requirement** (externship)

Maintaining Certification

- ▶ Annual **certification maintenance fee**
- ▶ Documented **continuing education requirements** every three years
- ▶ **Membership** in a professional association is **included!**
 - ▶ Access to over 400+ CE courses at discounted prices
 - ▶ Online and in-person networking events (state and national levels)
 - ▶ Quarterly publication
 - ▶ Advocacy for the profession
 - ▶ Professional development and leadership opportunities

RDA and DAR Certification Exams

Know what to expect



Why Get Certified?

- ▶ Exhibits **career readiness** to help land an interview
- ▶ Shows **dedication and expertise** in the dental field
- ▶ Can lead to **increased earning** potential
- ▶ Can help with **promotional** opportunities

RDA Exam Format

- ▶ **210** multiple choice questions & about **2 hours long**
- ▶ Test at a secure PearsonVUE location
- ▶ Know your score **IMMEDIATELY**
- ▶ **Subjects**
 - ▶ Office Assisting – 28 questions
 - ▶ Dental Sciences – 70 questions
 - ▶ Clinical Procedures – 51 questions
 - ▶ Dental Imaging – 61 questions
- ▶ **Retesting** available

Resources

Practice Makes Perfect

▶ **RDA Practice Exam**

- 2 full-length practice tests
- Closely follows the actual exam
- Immediate scores

▶ 100% online & self-paced

- Ability to pause & save

▶ **Review Course** coming soon!

No Trick Questions

- ▶ Questions are written based on expected tasks you would perform on the job
- ▶ Questions are carefully crafted to be understood in a positive, straightforward manner
- ▶ All questions are multiple-choice; no fill-in-the-blank or essays

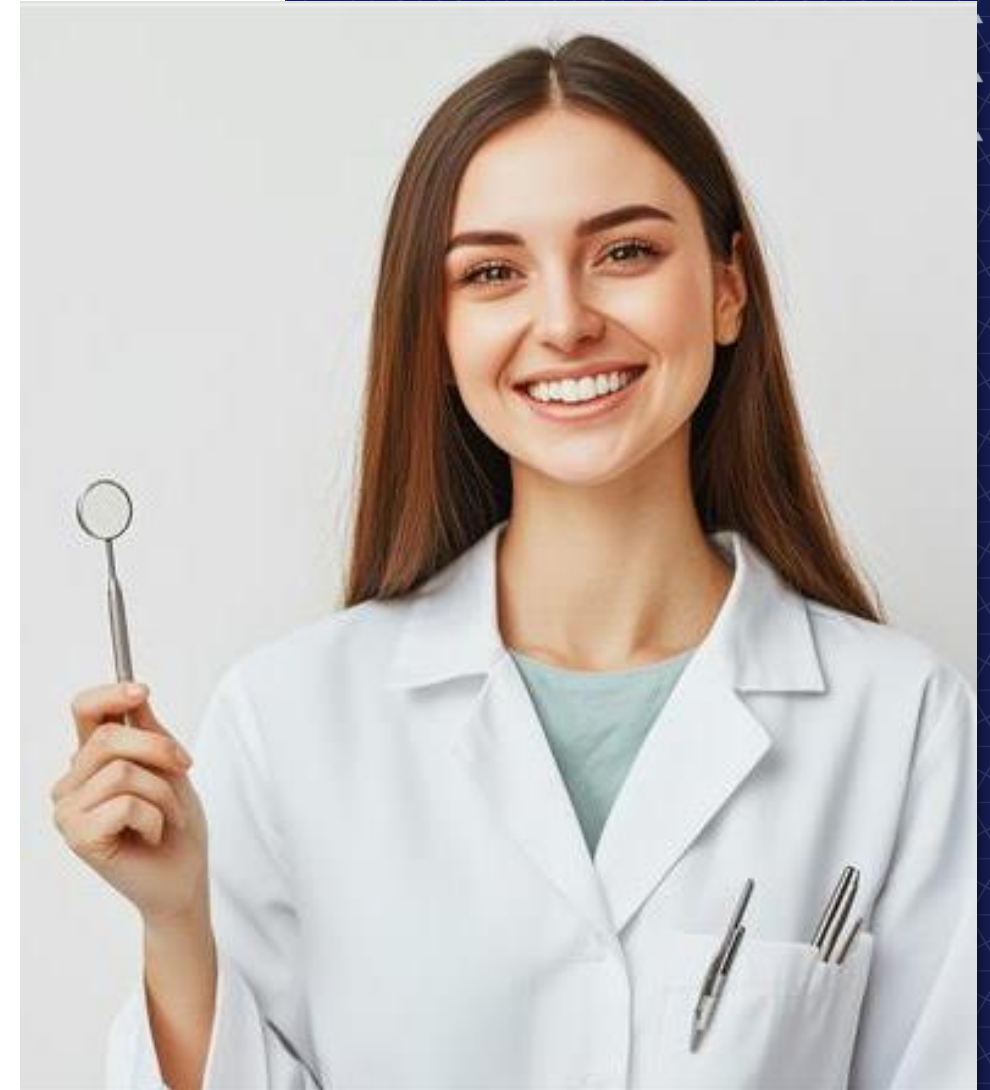
Educator and Student Support

▶ **AMT Supports Educators**

- ▶ Student-tracking reports on secure portal
- ▶ Test blueprint to guide training
- ▶ Bulk purchases for ease of ordering
- ▶ Concierge-level support

▶ **AMT Supports Students**

- ▶ Study tools: RDA practice exam
- ▶ Study tools: Review course coming soon
- ▶ Online student communities
- ▶ Scholarships



Keep in Touch

- ▶ Monthly member update email
- ▶ Text update option
- ▶ AMT Communities
- ▶ Social Media



- ▶ AMTConnect

Visit our website at:

www.americanmedtech.org

Call us at: **847.823.5169**

Email us at: accountcare@americanmedtech.org



DANB Certifications

National Entry Level Dental Assistant (NELDA®)

DANB's National Entry Level Dental Assistant (NELDA) certification is ideal for high school students or those who are starting out in their dental assisting careers.



Certified Dental Assistant™ (CDA®)

DANB's Certified Dental Assistant (CDA) certification is held by more than 35,000 dental assistants and is recognized or required in many states across the country.

DANB NELDA Exam Outlines: Competencies for Dental Assisting Programs

AMP Exam Outline

I: Head, Neck and Oral Cavity Anatomy and Physiology (40%)

- A. Circulatory and lymphatic systems
- B. Muscular/skeletal system
- C. Nervous system
- D. Hard and soft tissue
- E. Landmarks
- F. Salivary glands
- G. Sinuses

II: Tooth Anatomy, Morphology and Physiology (60%)

- A. Classifications of occlusion
- B. Permanent teeth
- C. Primary teeth
- D. Tooth numbering systems
- E. Tooth anomalies

ICE Exam Outline

I: Prevention of Disease Transmission (20%)

- A. Infectious diseases
 - 1. Modes of transmission
 - 2. Patient safety
 - 3. Occupational risk
- B. Review medical histories for transmissible diseases.
- C. Hand hygiene, including but not limited to:
 - 1. product types (e.g., antimicrobial, antibacterial, alcohol rub).
 - 2. skin/nail care.
 - 3. techniques.
 - 4. protocols
- D. Use of personal protective equipment (PPE), including but not limited to:
 - 1. select appropriate PPE.
 - 2. prepare PPE for reuse.
 - 3. don and doff techniques and sequence.
 - 4. patient safety precautions.
 - 5. dispose of contaminated PPE.
- E. Minimize contact with aerosols, droplets and spatter using, but not limited to:
 - 1. barriers.
 - 2. dental dams.
 - 3. evacuation.

II. Prevention of Cross-contamination (34%)

- A. Clean and disinfect treatment areas and laboratories
- B. Prepare and use chemical disinfectants.
- C. Use of surface barriers.
- D. Prepare tray setups (e.g., single-use devices [SUD], single unit dosing, aseptic retrieval).
- E. Maintain and monitor dental unit water lines.
- F. Clean and maintain evacuation lines and traps.
- G. Clean and disinfect equipment, including but not limited to radiography equipment.
- H. Disinfect impressions and dental appliances.
- I. Dispose of biohazardous and other waste.

RHS Exam Outline

I: Purpose and Technique (50%)

- A. Purpose of radiographic images
 - 1. Describe purpose of radiographic image
 - a. Periapical
 - b. Bitewing
 - c. Full mouth series
 - d. Occlusal
 - e. Panoramic
 - f. Cephalometric
 - g. CBCT (cone-beam computed tomography)
 - 2. Identify survey used to examine or view specific conditions, teeth or landmarks.
- B. Technique
 - 1. Review patient medical and dental histories for contraindications, including medications.
 - 2. Intraoral techniques, including error correction
 - a. Parallelism
 - b. Bisecting angle
 - 3. Extraoral techniques, including error correction
 - a. Panoramic
 - b. Cephalometric
 - c. CBCT (cone-beam computed tomography) basics
 - 4. Technique modifications based on anatomical variations and clinical conditions
 - 5. Purpose and maintenance of radiographic equipment
 - 6. Patient management techniques before, during and after exposure
 - 7. Mount images using facial (buccal and labial) view.
 - a. Anatomical landmarks that aid in mounting
 - b. Match tooth views to tooth mount windows
 - c. Image viewing techniques
 - 8. Anatomical structures and dental materials observed on images (e.g., differentiating between radiolucent and radiopaque areas)
 - 9. Features of a diagnostically acceptable image
 - 10. Prepare images for legal requirements, viewing, duplication and transfer (e.g., HIPAA).

Vendors with Certifications

- youscience
Dental Assistant: Dental Science I
Dental Assistant: Dental Science II
Dental Assistant: Dental Science III

<https://www.youscience.com/certifications/career-clusters/health-science/>

youscience



National Organizations with Competitions or Assessments

- SkillsUSA
 - Dental Assisting Competitive Event



- National Consortium for Health Science Education (NCHSE)
 - National Health Science Assessment



- HOSA – Future Health Professionals
 - National Competitive Events



Hands-On Resources



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Dental Safety Training Kit

Dental Radiation Safety and Infection Control Scenario 1

Focus: Pediatric Radiographic Techniques

Scenario: You work in a pediatric dental office, and your patient, Zoe, is waiting in the operator. She's been there before, but it's her first time having radiographs taken. She appears nervous. You slowly approach her and introduce yourself. You tell her that you're going to take pictures of her teeth using your big camera.

Show her the tubehead and allow Zoe to touch and ask questions about the big camera. Let Zoe touch the receptor-holding device, so she knows what to expect once it's placed in her mouth. You ask Zoe if she's ready to begin, and she says yes.

Key Questions:

1. Why is it important to tell Zoe what you are doing before continuing with the X-ray procedure?
2. How might the situation play out differently if you hadn't explained the steps to Zoe?

Possible Solutions:

1. Why is it important to tell Zoe what you are doing before continuing with the X-ray procedure?

Zoe has never had X-rays before. She appears nervous, so explaining every step before doing it will help her understand the process and reduce her fear.

2. How might the situation play out differently if you hadn't explained the steps to Zoe?

Zoe might have become uncooperative, making it difficult for you to take the radiograph.

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1067038-01



Dental Palpation Simulator



28 permanent teeth
and movable tongue

Flexible face and
mouth lining

Jaw click and grind settings
Jaw lock
(on back of head)

Anatomically
correct jaw

Enlarged lymph
node insert

Attaches to a
real dental chair

6 Dental abnormality inserts:

- Firm large tumor insert in buccal mucosa
- Polyp insert in the labial mucosa
- Growth insert in the Oropharynx area of throat
- Hard palate tumor insert in fauces
- Insert for facial asymmetry
- Ulcer insert in the fauces



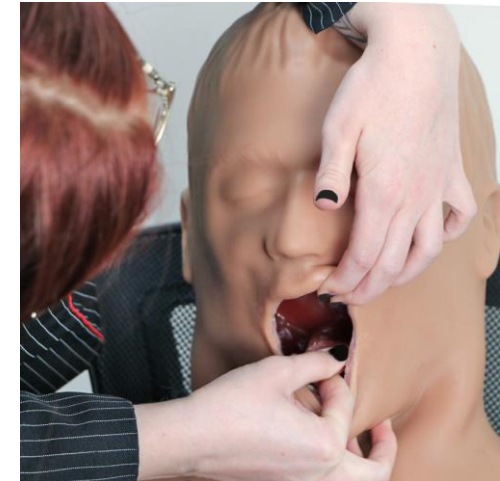
Jaw open/close
foot pedal

Dental Palpation Simulator

Additional features and functions:

- Jaw allows for TMJ testing
- Practice conducting intraoral soft tissue and extraoral head and neck exams

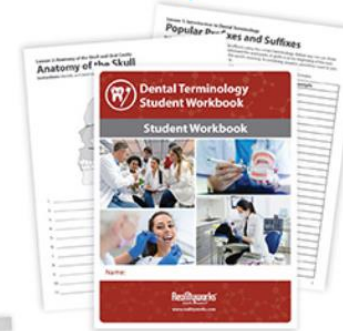
Scenario cards (4 sets)



Dental Terminology Kit



20 student workbooks filled with activities to reinforce students' knowledge



Downloadable Dental Terminology Student Workbook - Teacher Guide



5 color-coded sets of tiles for interactive word-building



Scenario cards that provide practical context for terminology



Printable vocabulary cards for independent study



Dental Terminology Master List of Words



Dental Terminology Kit

Additional feature:

- Downloadable, 12-lesson curriculum

Dental Assistant Pathway Package



Explore dental assistant careers with our turnkey Dental Assistant Package. It includes 10 hands-on resources and up to 40+ hours of course content. Lessons come with presentation slides, activities, and assessments.

Dental Assistant Package - Realityworks

Learning Aids for Dental Assistant Training

10 hands-on resources:

- Dental Palpation Simulator
- Dental Anatomy Model Set
- Dental Safety Training Kit
- Healthcare Interpersonal Skills Program
- AED Trainer
- BVM Ventilation Trainers - 2
- RealCare™ Infant Health and Safety Pack
- Blood Pressure Simulators - 2



Tools Applied to Plan of Study

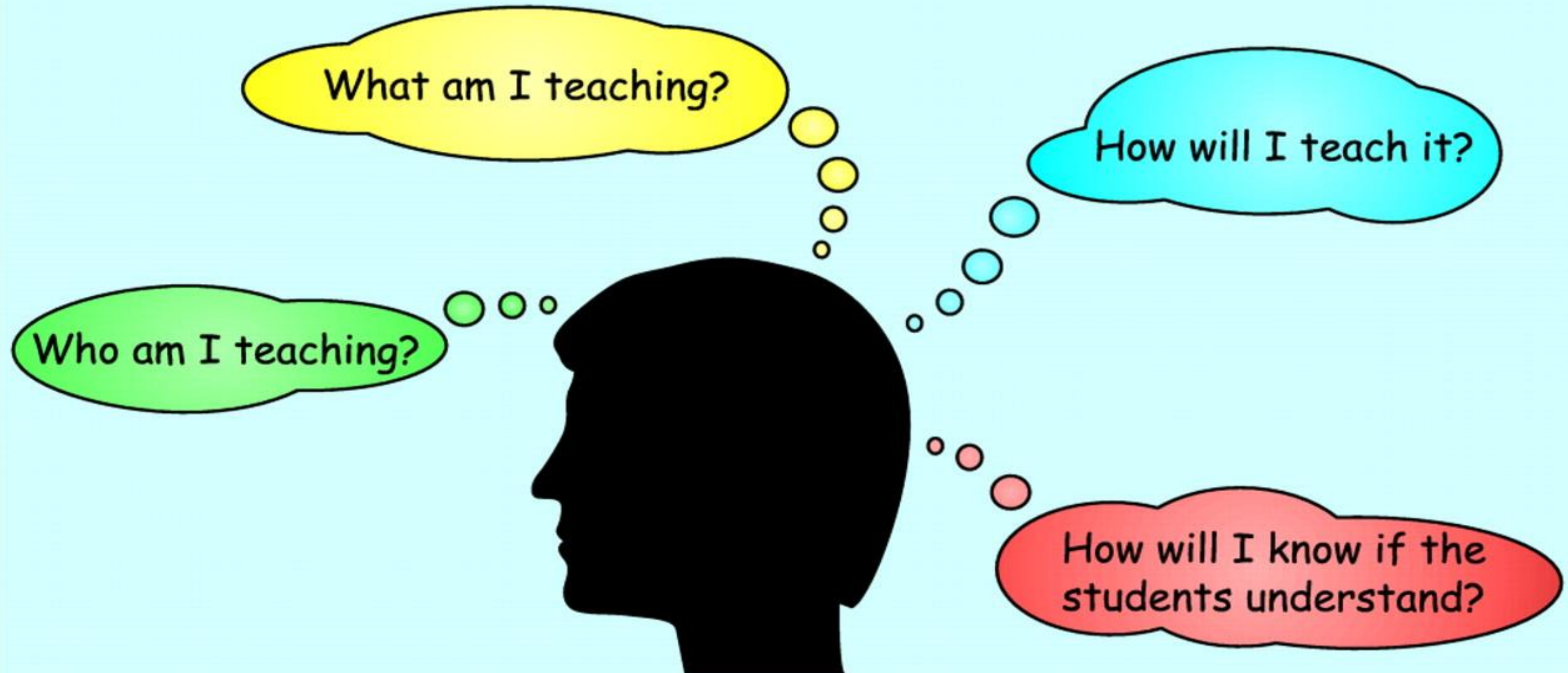
Begin to fit these hands-on learning tools into your courses:

- Dental Terminology Kit
- Dental Anatomy Model Set
- Dental Safety and PPE Training Kit
- Dental Palpation Simulator
- And more....

**Health Science I: Introduction to Health Science
**Information Technology Applications
**Health Science II: Health, Safety and Ethics in the Health Environment
**Health Science III: Employment in Health Occupations
Continue courses pertinent to the pathway selected.

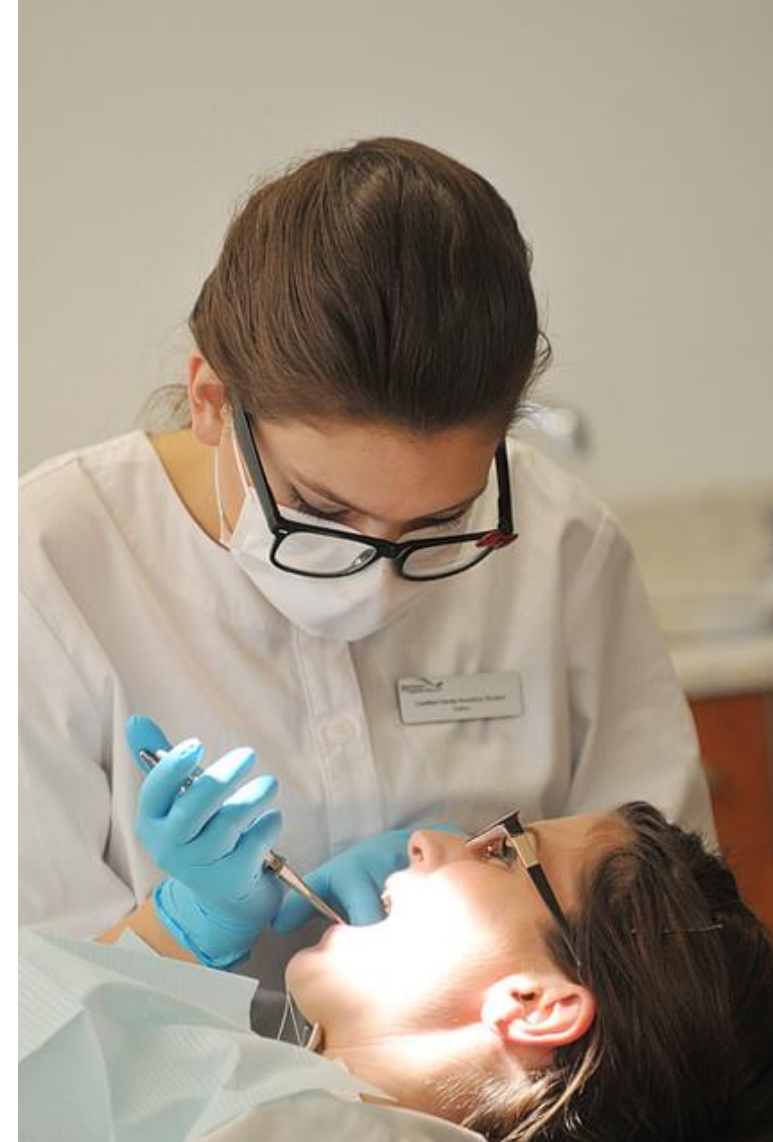


Curriculum



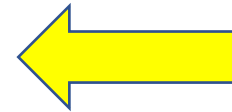
Dental Assistant Curricula

<u>Hours</u>	<u>Curriculum Topic</u>
• 2.5 - 5	Dental Palpation
• 3 - 5	Dental Anatomy
• 3.5 – 5.5	Dental Radiation Safety and Infection Control
• 4.5 – 7	PPE and Sterilization
• 10	Healthcare Interpersonal Skills
• 1 - 2	Introduction to Bag Valve Mask Ventilation
• 2.5	Cardiac Arrest Management and AED
• 1	Introduction to Blood Pressure
• 1-2	Emergency Infant CPR
• 1-2	Infant Airway Obstruction Emergency Procedures
30-42	Total Hours



Content Applied to Plan of Study

Name							
Learner ID							
School/College/University							
Health Science							
Career Cluster Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty							
This Career Cluster Plan of Study (based on the Health Science Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.							
EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Health Science
Interest Inventory Administered and Plan of Study Initiated for all Learners							
SECONDARY	9	English/ Language Arts I	Algebra I	Dependent on chosen pathway	State History Civics	All plans of study should meet local and state high school graduation requirements and college entrance requirements. Certain local student organization activities are also important including public speaking, record keeping and work-based experiences. A foreign language is recommended.	**Health Science I: Introduction to Health Science **Information Technology Applications **Health Science II: Health, Safety and Ethics in the Health Environment
	10	English/ Language Arts II	Dependent on chosen pathway	Dependent on chosen pathway	U.S. History		
	11	English/ Language Arts III	Dependent on chosen pathway	Dependent on chosen pathway	World History Sociology		**Health Science III: Employment in Health Occupations
	12	English/ Language Arts IV	Dependent on chosen pathway	Dependent on chosen pathway	Psychology Economics		Continue courses pertinent to the pathway selected.
College Placement Assessments-Academic/Career Advisement Provided							
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.							
POSTSECONDARY	Year 13	English Composition	Dependent on chosen pathway	Dependent on chosen pathway	American Govt. Psychology	All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include. Work-based learning is an integral part of this Career Cluster.	Continue courses pertinent to the pathway selected.
	Year 14	Speech/ Oral Communication Technical Writing	Dependent on chosen pathway	Dependent on chosen pathway	American History Sociology		
	Year 15	Continue courses in the area of specialization.					
	Year 16						

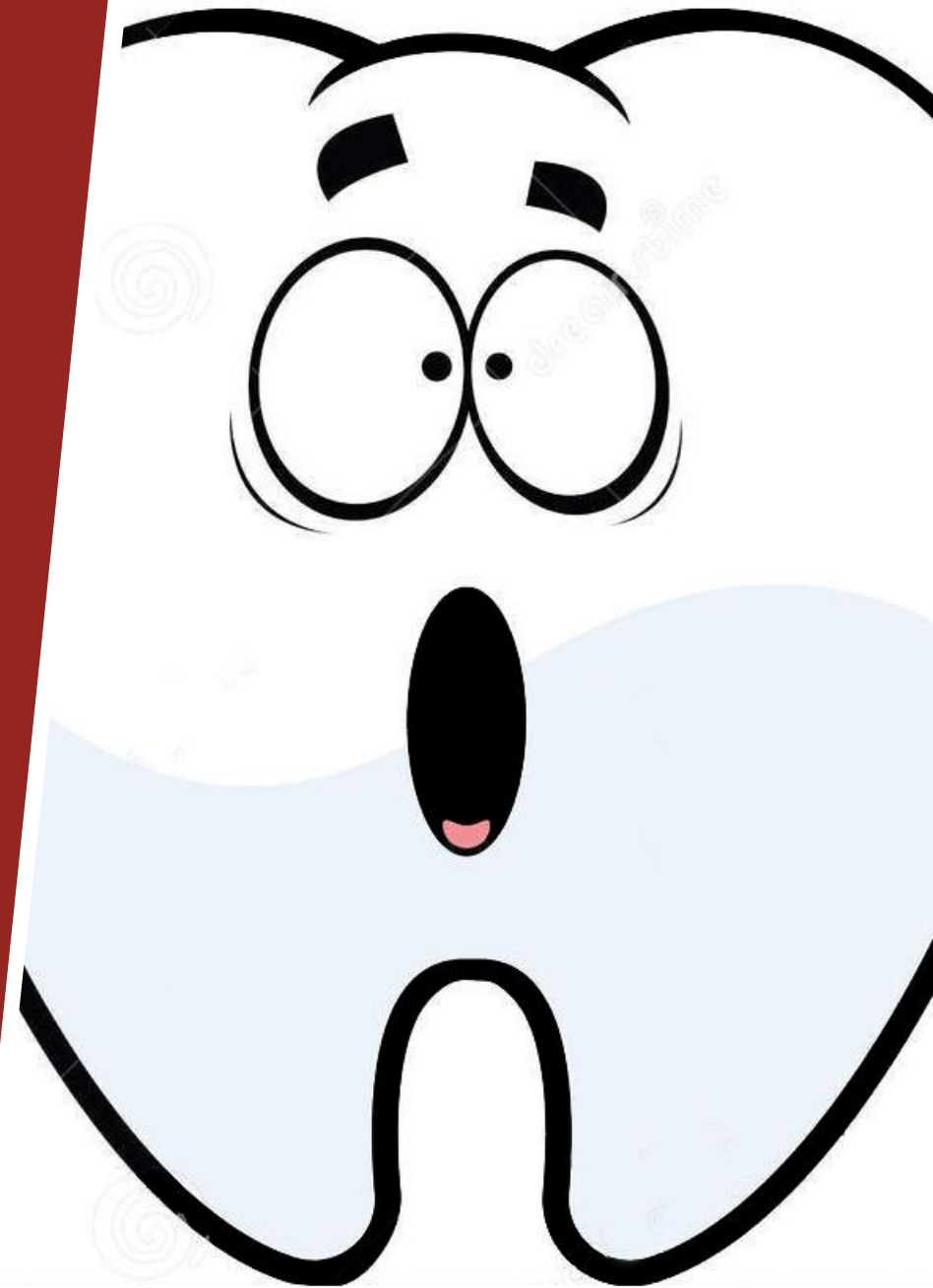


Begin to fit these hours of content into your courses.



More Free Resources

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Dental Assisting Career Exploration Lesson Resources...

Dental Assisting Instructional Videos

- <https://dental.ufl.edu/education/resources/dental-assisting-instructional-videos/>

Career Lynx

- https://nieonline.com/coloradonie/downloads/learninglynx/CareerLynx_Dentistry.pdf

Planning Tools for Training Dental Assistants on the Job

- <https://www.ihs.gov/doh/clinicmanagement/pathways/training%20da%20on-the-job.pdf>

YouTube Dental Assistant Career Exploration

- <https://www.youtube.com/watch?v=j5SvTrGFAqE>

Career Exploration and Planning Lesson

- <https://www.ptech.org/wp-content/uploads/LessonPlan-CareerExploration-Final.pdf>



More FREE Resources

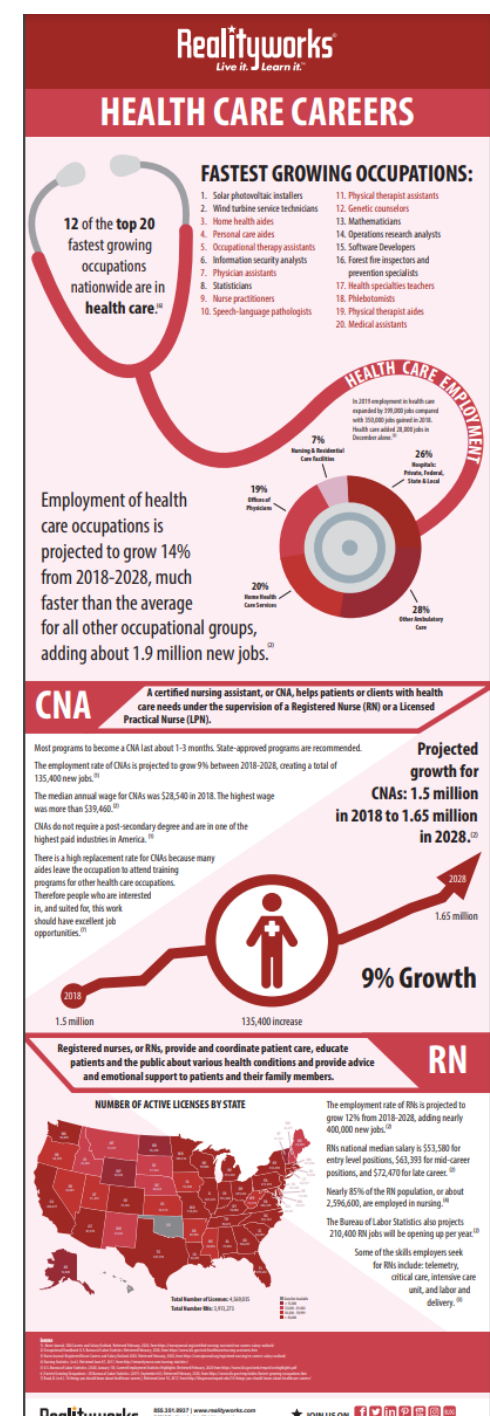
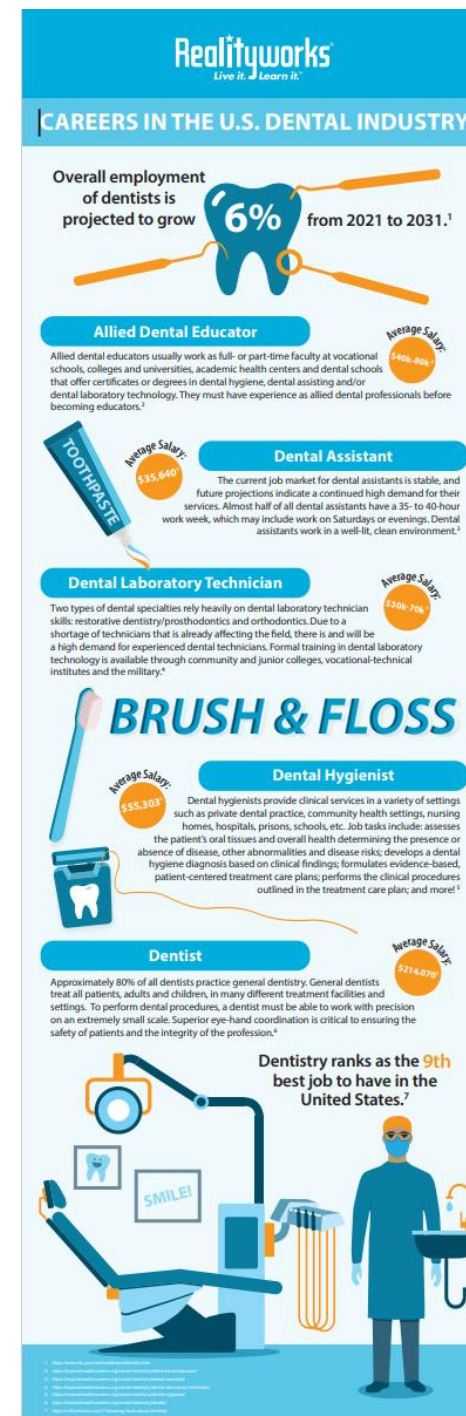
FREE Posters – dental and health science infographics

<https://www.realityworks.com/resources/realityworks-interactive-posters-downloads/>

Career Exploration Lessons – 20 total

- Dental
- Health Science
- Sports Medicine
- Therapeutic Services

<https://www.realityworks.com/resources/free-lesson-plans/>



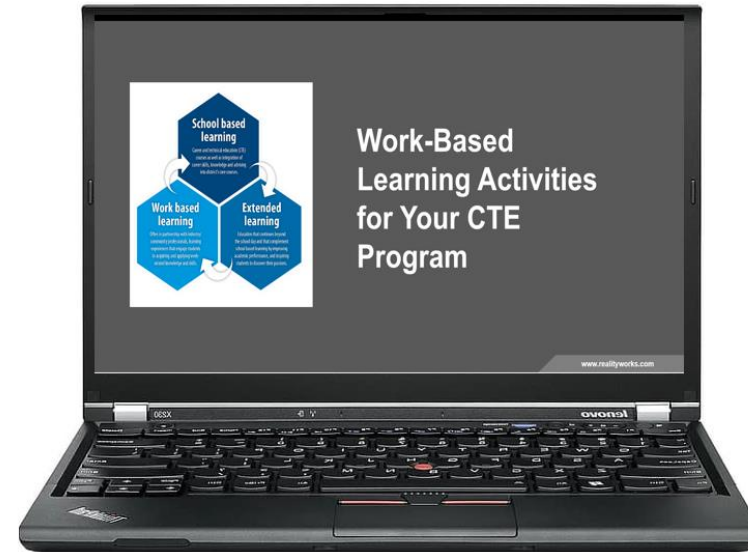
Webinars and Social Media

- Facebook
- X
- YouTube
- Instagram
- LinkedIn



Realityworks Blog

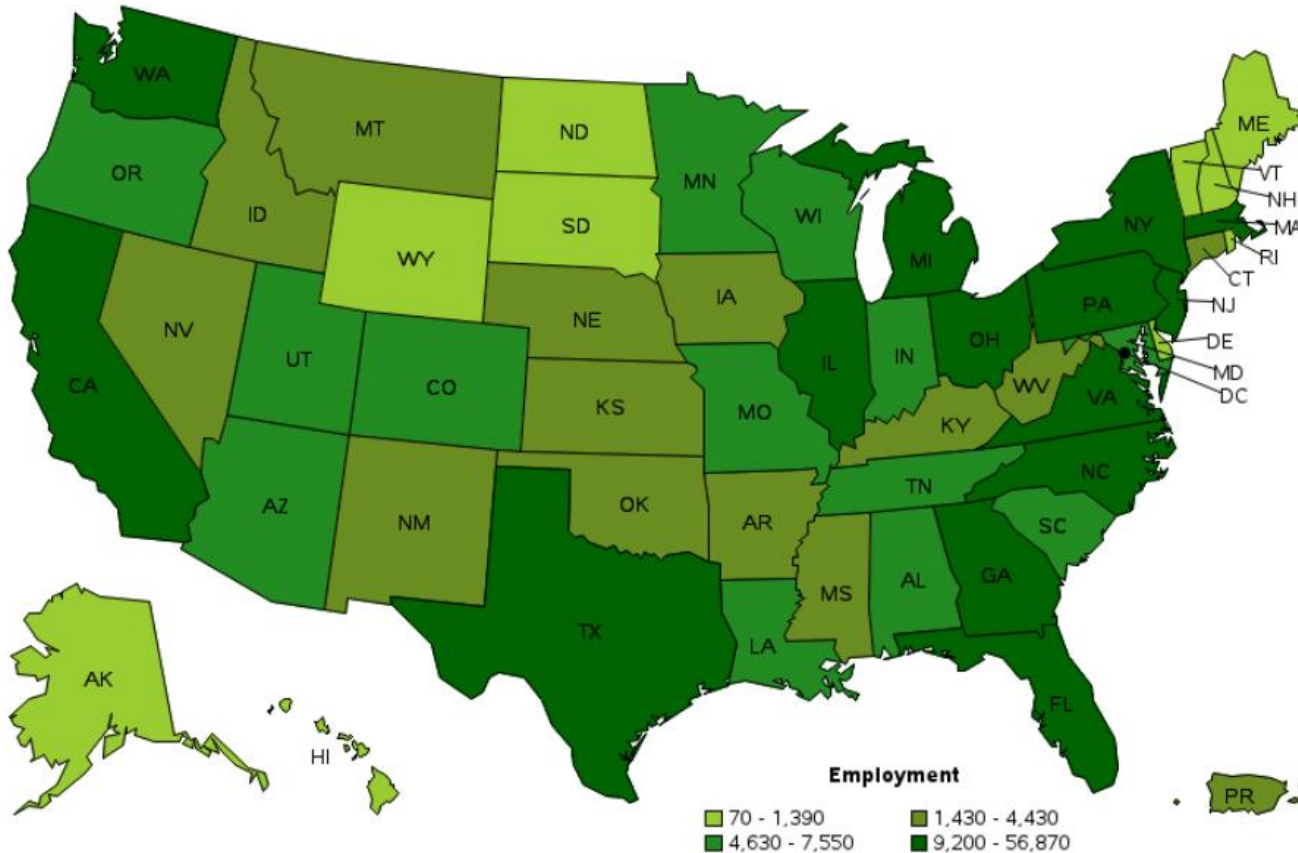
<http://realityworks.com/blog/>



<http://realityworks.com/webinars>

Occupational Outlook

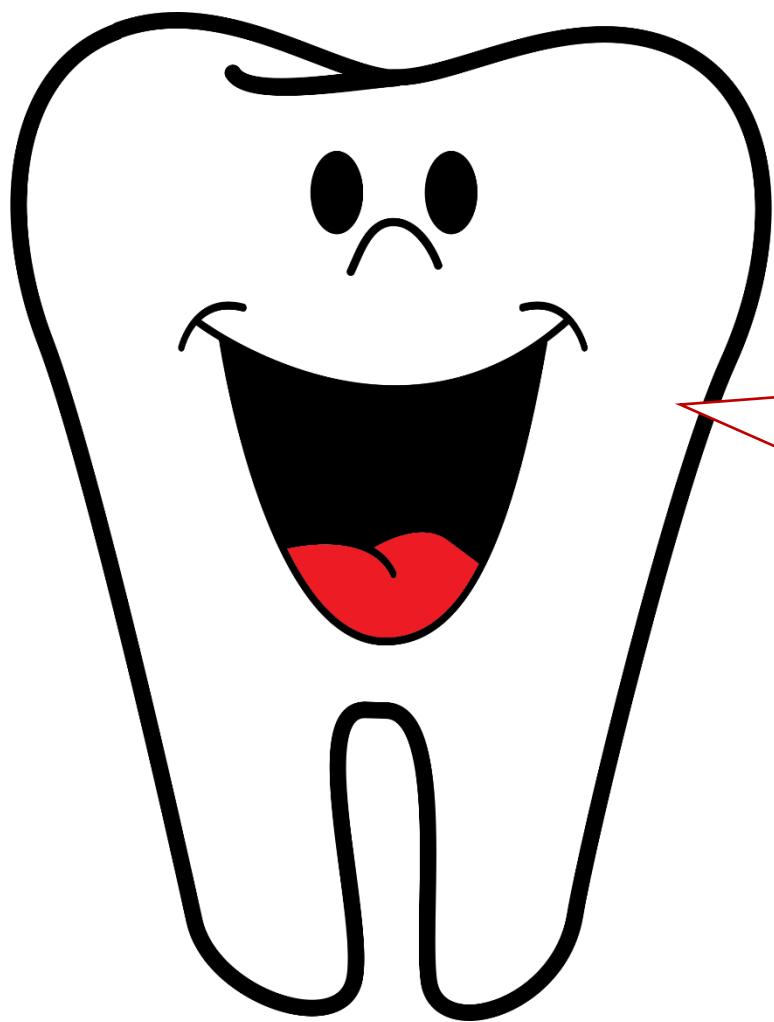
Employment of dental assistants, by state, May 2023



Blank areas indicate data not available.

Employment of dental assistants is projected to grow 8 percent from 2023 to 2033, faster than the average for all occupations.

Bureau of Labor Statistics



Q&A





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- Connect with your local Realityworks account manager
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