



Starting a New Dental Assistant Pathway Program

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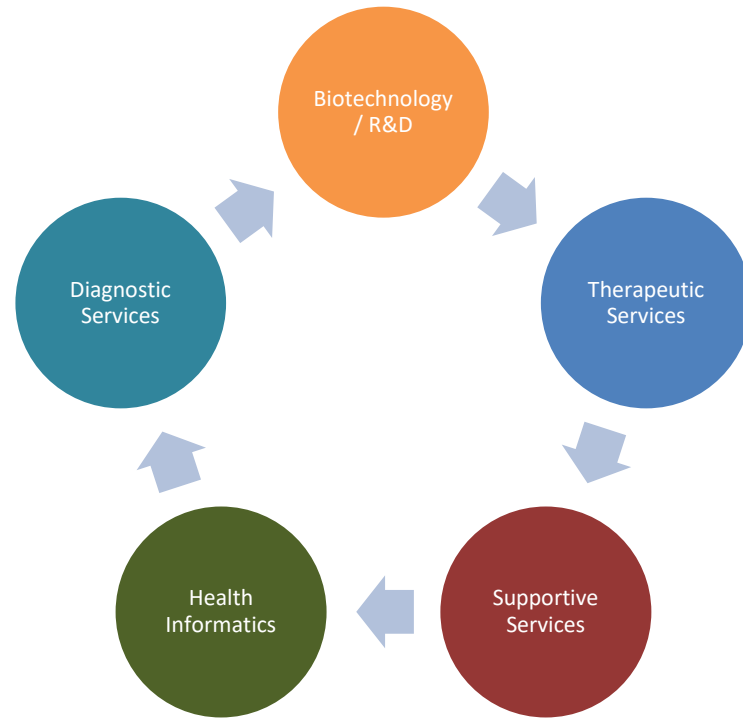
Agenda

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

Building a Dental Assistant Pathway



Health Science Pathways



Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

Sample Career Specialties/Occupations				
Acupuncturist Anesthesiologist/Assistant Anesthesia Technologist/Technician Art/Music/Dance Therapist(s) Athletic Trainer Audiologist Certified Nursing Assistant Chiropractor Chiropractic Assistant Dental Assistant/Hygienist Dental Lab Technician Dietitian/Nutritionist Dosimetrist EMT/Paramedic Endodontist Exercise Physiologist Home Health Aide Kinesiotherapist Licensed Practical Nurse Massage Therapist Mental Health Counselor Naturopathic Doctor Nurse Anesthetist Nurse Midwife Nurse Practitioner Occupational Therapist/Assistant Oral Surgeon Orientation/Mobility Specialist Orthodontist Orthoptist Orthotist/Prosthetist/Technician Podiatrist Perfusionist Pharmacist Pharmacy Technician Physical Therapist/Assistant Physician (MD/DO) Physician Assistant Podiatrist Psychologist Psychiatrist Radiation Therapist Recreation Therapist Registered Nurse Rehabilitation Counselor Respiratory Therapist Speech-Language Therapist Surgical Technician Veterinarian Veterinarian Assistant/Technician Vision Rehabilitation Therapist Wellness Coach	Audiologist Blood Bank Technology Specialist Cardiovascular Technologist Clinical Lab Technician Clinical Laboratory/Technologist Computer Tomography (CT) Technologist Cytogenetic Technologist Cytotechnologist Dentist Diagnostic Medical Sonographer Electrocardiographic (ECG) Technician Electroneurodiagnostic Technologist Electronic Diagnostic (EEG) Technologist Exercise Physiologist Geneticist Geriatrician Histotechnician Histotechnologist Magnetic Resonance Technologist Mammographer Medical Technologist/ Clinical Laboratory Scientist Nuclear Medicine Technologist Optician Ophthalmologist Ophthalmic Assistant/Technologist Optometrist Pathologist Pathologists' Assistant Phlebotomist Polysomnographic Technologist Positron Emission Tomography (PET) Technologist Radiologic Technologist Radiologist Speech-Language Pathologist	Admitting Clerk Applied Researcher Compliance Technician Clinical Account Manager Clinical Account Technician Clinical Data Specialist Community Services Specialists Data Quality Manager Epidemiologist Ethicist Health Educator Health Information Mgmt. Administrator Health Information Mgmt. Technician Healthcare Access Manager Healthcare Administrator Healthcare Finance Informatician Information Privacy Officer Managed Care Contract Analyst Medical Coder Medical Historian Medical Illustrator Medical Information Technologist Medical Librarian Medical Transcriptionist Patient Account Manager Patient Account Technician Patient Advocate Patient Information Coordinator Project Manager Public Health Educator Quality Management Specialist Quality Data Analyst Research and Decision Support Specialist Reimbursement Specialist Risk Manager Unit Coordinator Utilization Manager Utilization Review Manager	Animal Behavioralist Biomedical/Clinical Engineer Biomedical/Clinical Technician Clinical Simulator Technician Central Service Manager Central Service Technician Community Health Worker Dietary Manager Dietetic Technician Environmental Health Advocate Environmental Health Practitioner Environmental Services/ Specialist Facilities Manager Food Safety Specialist Health Advocate Hospital Maintenance Engineer Industrial Hygienist Interpreter Marital, Couple, Family Counselor/Therapist Materials Manager Medical Health Counselor Mortician/ Funeral Director Nurse Educator Occupational Health Nurse Occupational Health & Safety Expert Social Worker Transport Technician	Biochemist Bioinformatics Scientist Biomedical Chemist Biomedical Manufacturing Technician Biostatistician Cancer Registrar Cell Biologist Clinical Data Management Specialist Clinical Pharmacologist Clinical Trials Monitor Clinical Trials Research Coordinator Crime Scene Investigator Diagnostic Molecular Scientist Forensic Biologist Forensic Chemist Forensic Odontologist Forensic Pathologist Genetic Counselor Geneticist-Lab Assistant Lab Technician Medical Editor/Writer Microbiologist Molecular Biologist Nurse Researcher Packaging Technician Patent Lawyer Pharmaceutical/Clinical Project Manager Pharmaceutical Sales Representative Pharmaceutical Scientist Pharmacokineticist Pharmacologist Product Safety Scientist Process Development Scientist Processing Technician Quality Assurance Technician Quality Control Technician Regulatory Affairs Specialist Research Assistant Research Scientist Toxicologist

Building your Plan of Study

EDUCATION LEVEL 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	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 *Health Science II: Health, Safety and Ethics in the Health Environment *Health Science III: Employment in Health Occupations	Occupations Requiring Less than Baccalaureate Degree • Dental Assistant/Hygienist • Diagnostic Medical Sonographer • Information Coder
	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 Biology			
	12 English/ Language Arts IV	Dependent on chosen pathway	Dependent on chosen pathway	Psychology Economics			
College Placement Assessments/Academic/Career Advancement Provided							
POSTSECONDARY	Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.						
	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.	Associate Degree • Athletic Trainer • Biomedical Scientist • Dietitian • Industrial Hygienist • Nutritionist • Occupational Therapist • Physician (MD/DO) • Physician Assistant • Psychologist • Research Scientist • Speech/Language Pathologist • Toxicologist • Veterinarian
	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

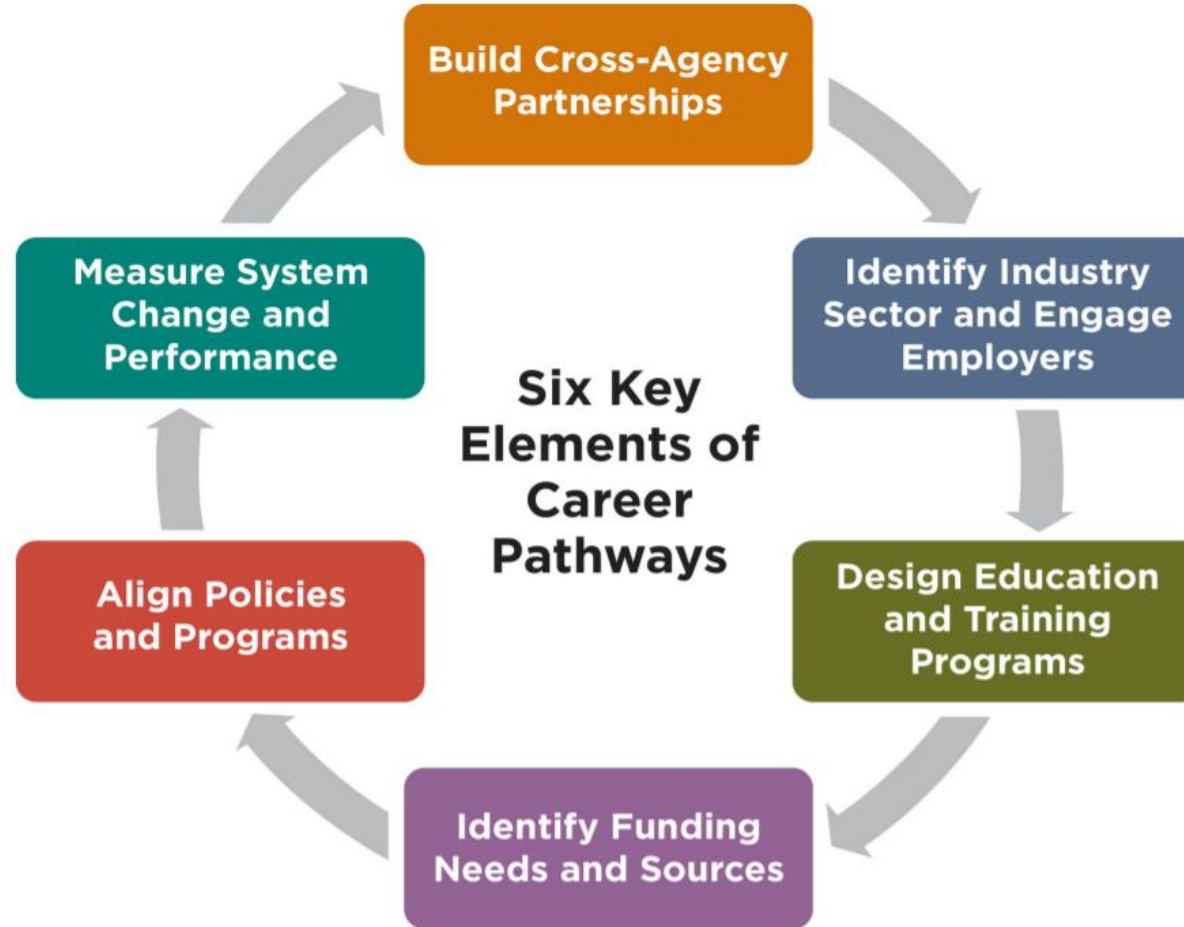
All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include. Work-based learning is an integral part of this Career Cluster.

Continue courses pertinent to the pathway selected.

**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://www.careertech.org/career-clusters>

Six Key Elements for Developing Career Pathways



Where Should I Begin? National Health Science Standards

Measurable accountability

communicated in a user-friendly manner to educators, students, and healthcare employers

A comprehensive curriculum

framework for health science course designs and assessment construction

Validation on timely basis by

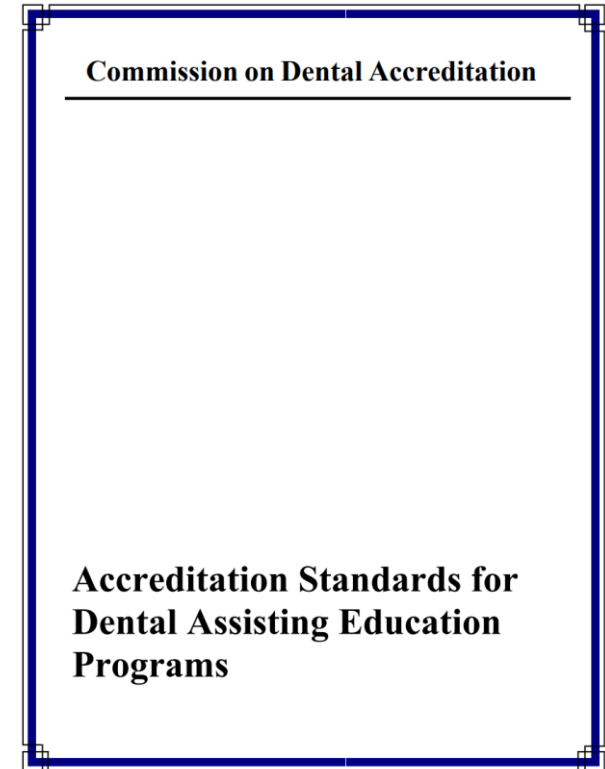
stakeholders: individuals representing business & industry, professional organizations, credentialing, and state education agencies

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



National Dental Assisting Standards

- [Dental Assisting Education Programs of the Commission on Dental Accreditation](https://coda.ada.org/)
- <https://coda.ada.org/>



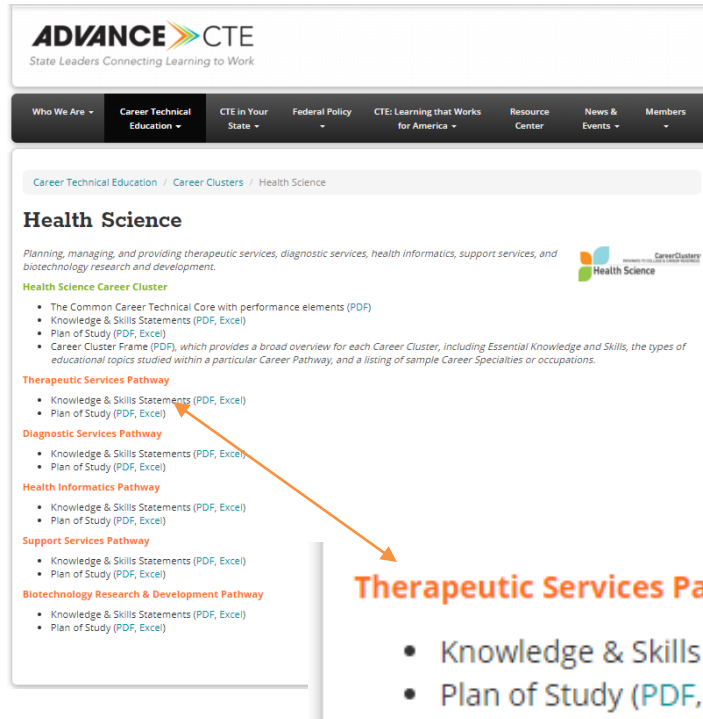
Common Career Technical Core Standards



- Includes general Health Science cluster standards
- Identifies standards for each of the 5 pathways

<https://cte.careertech.org/sites/default/files/H-L-CCTC-PerformanceElements.pdf>

Knowledge and Skill Statements



- Includes Knowledge and Skills Statements for the Cluster and each individual pathway
- Identifies an editable Plan of Study template

Therapeutic Services Pathway

- Knowledge & Skills Statements (PDF, Excel)
- Plan of Study (PDF, Excel)

<https://www.careertech.org/health-science>

Knowledge and Skill Statements – Therapeutic Services

Therapeutic Services Career Pathway (HL-THR)

1. Utilize communication strategies to answer patient/client questions and concerns on planned procedures and goals.

HL-THR 1.1: Employ effective oral communication techniques when responding to patient questions and concerns.

Sample Indicators:

- *Assess patients/clients' understanding of the information provided.*
- *Demonstrate empathy for patients/clients.*
- *Construct communication appropriate to the needs of the patient/client and the situation.*



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



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?



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.



NELDA Certification

DANB

 The DALE Foundation®



- To earn the NELDA certification, learners must pass DANB's RHS, ICE, and AMP exams
- Apply online at <https://www.danb.org/exams/exam/nelda-exam>

Why Earn Certification?

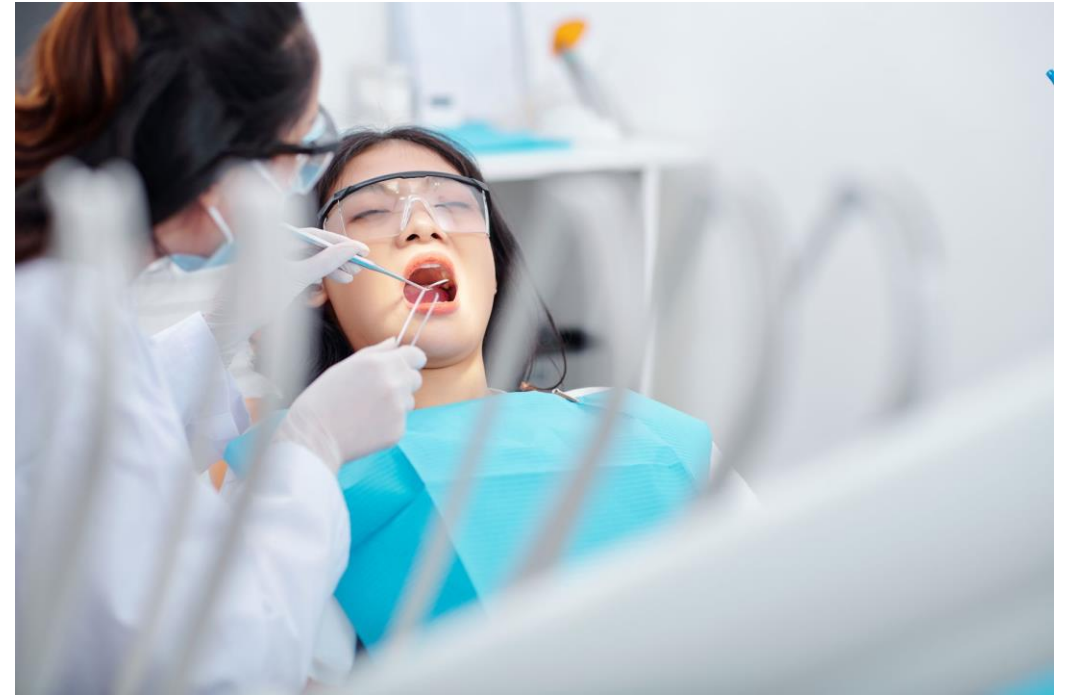
DANB

 The **DALE** Foundation[®]

There are many reasons to earn dental assistant certification, including personal and professional benefits.

- **Pride**
- **Confidence**
- **Commitment**
- **Opportunities**
- Also... **PAY!** DANB's Dental Assistants Salary and Satisfaction Survey shows that CDAs earn about \$4 more per hour than non-certified assistants.

<https://www.danb.org/career-center/salary-report>



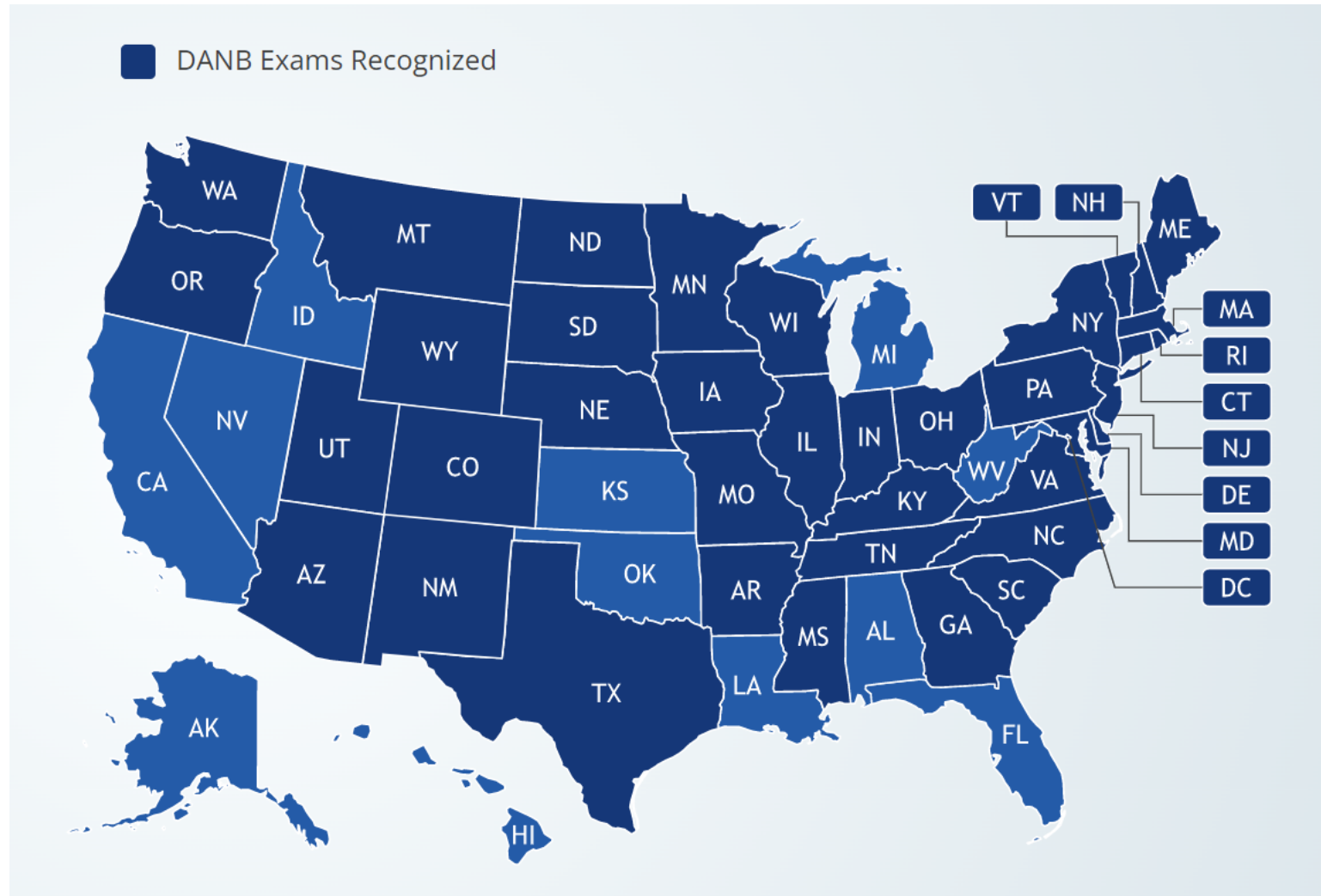
The Easy Transition from NELDA to CDA



- Both the NELDA and CDA require taking and passing the RHS and ICE exams.
Learners may use exams taken for the NEDLA towards the CDA requirement as long as all CDA exams are taken within 5 years of one another.
- Neither the RHS or ICE exams have eligibility requirements attached to them. However, the General Chairside (GC) exam does. The GC exam is required to earn the CDA.



Where are DANB Exams Recognized?



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).

National Organizations with Certifications



- American Medical Technologists
 - 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 Organizations with Certifications

- 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/>



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



Vendors with Certifications

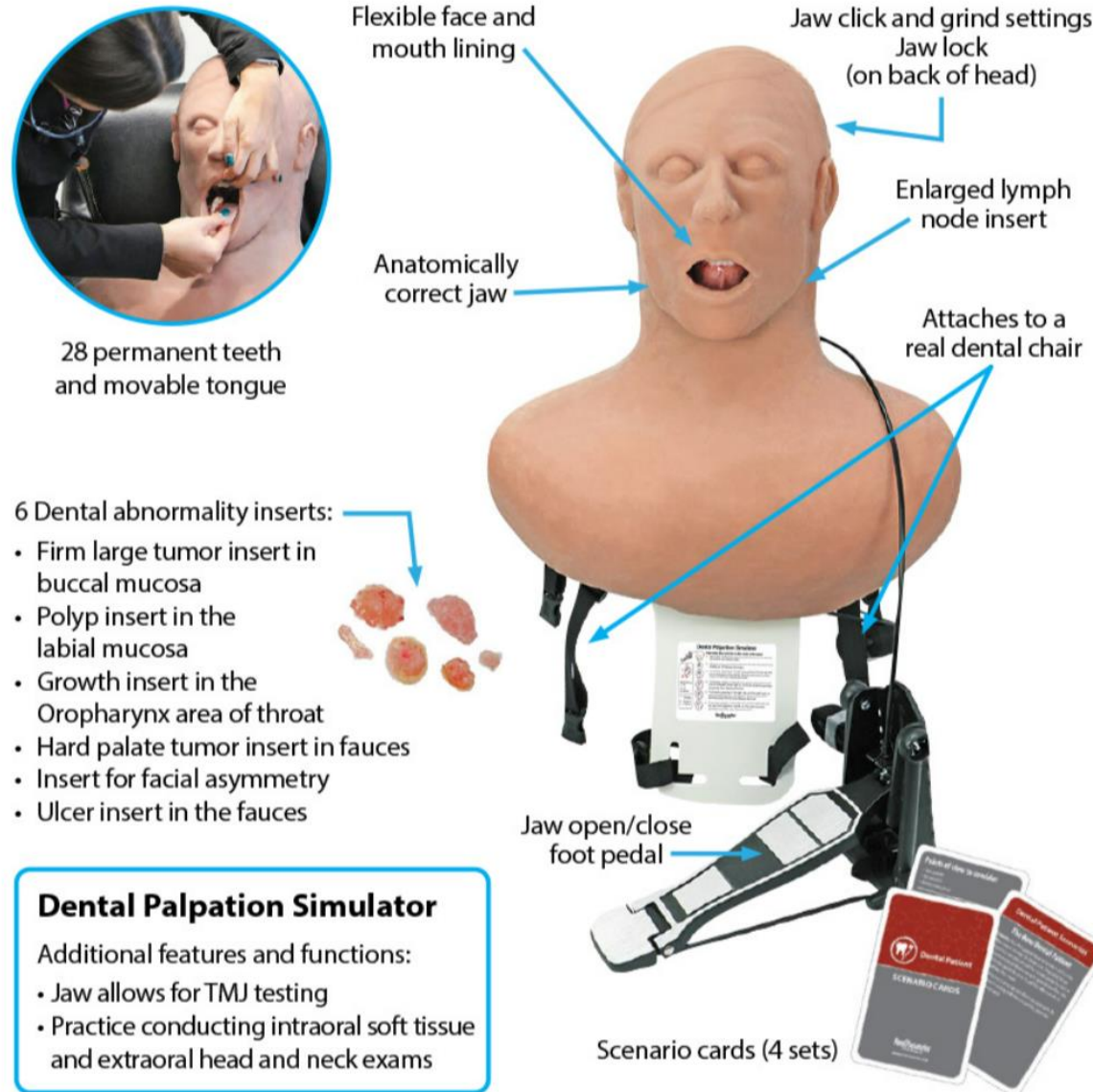


- youscience
 - Dental Assistant: Dental Science I
 - Dental Assistant: Dental Science II
 - Dental Assistant: Dental Science III
- <https://www.youscience.com/certifications/career-clusters/health-science/>

Hands-On Resources



Dental Palpation Simulator



Dental Anatomy Model Set



Dental Safety Training Kit



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.

<https://www.realityworks.com/product/dental-assistant-package/>

Learning Aids for Dental Assistant Training

Dental Assistant Pathway Package 2023	Qty
Dental Palpation Simulator	1
Dental Anatomy Model Set	1
Dental Safety Training Kit	1
Healthcare Interpersonal Skills Program	1
AED Trainer	1
BVM Ventilation and CPR Trainer	2
Infant Health and Safety Pack	1
Blood Pressure Simulator	2

Tools Applied to Plan of Study

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

- Dental Anatomy Model Set
- Dental Safety and PPE Training Kit
- Dental Palpation Simulator



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

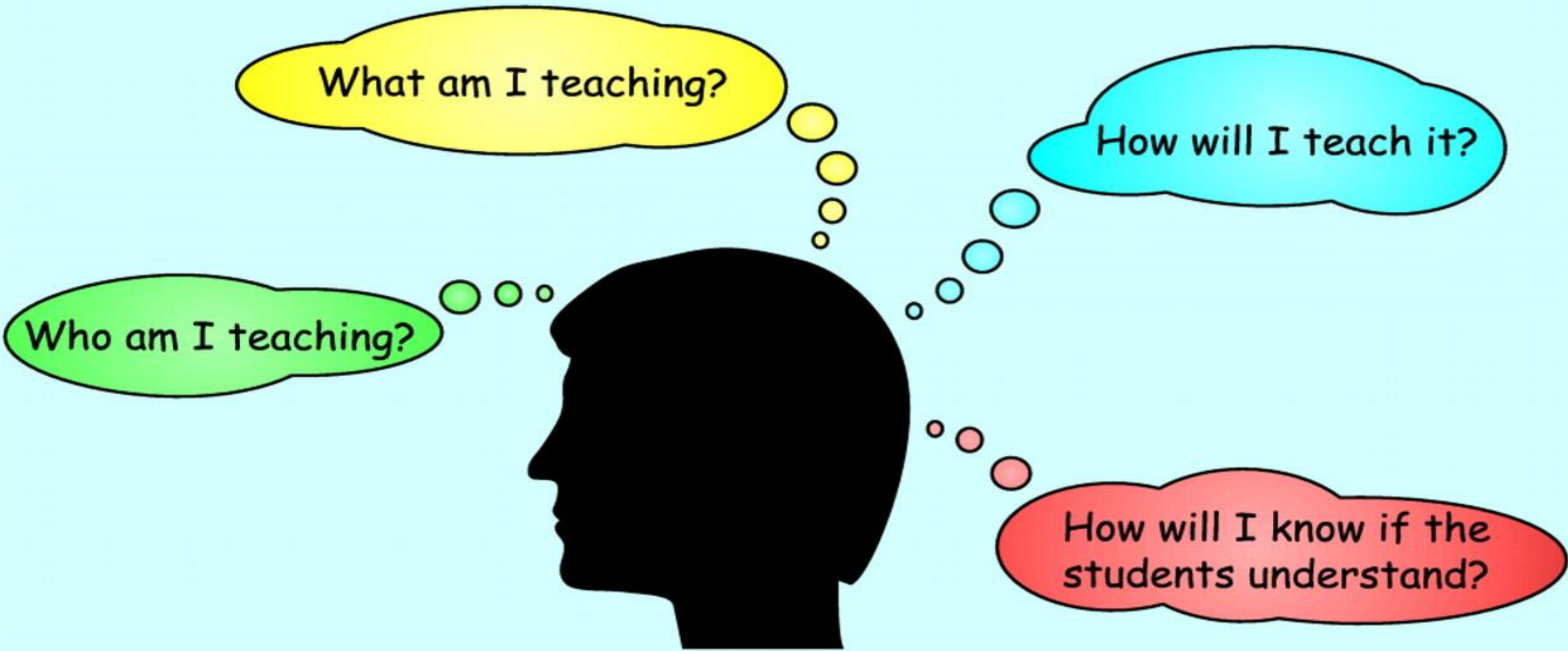
***Information Technology Applications*

***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

<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
<u>1-2</u>	Infant Airway Obstruction Emergency Procedures
30-42	Total Hours



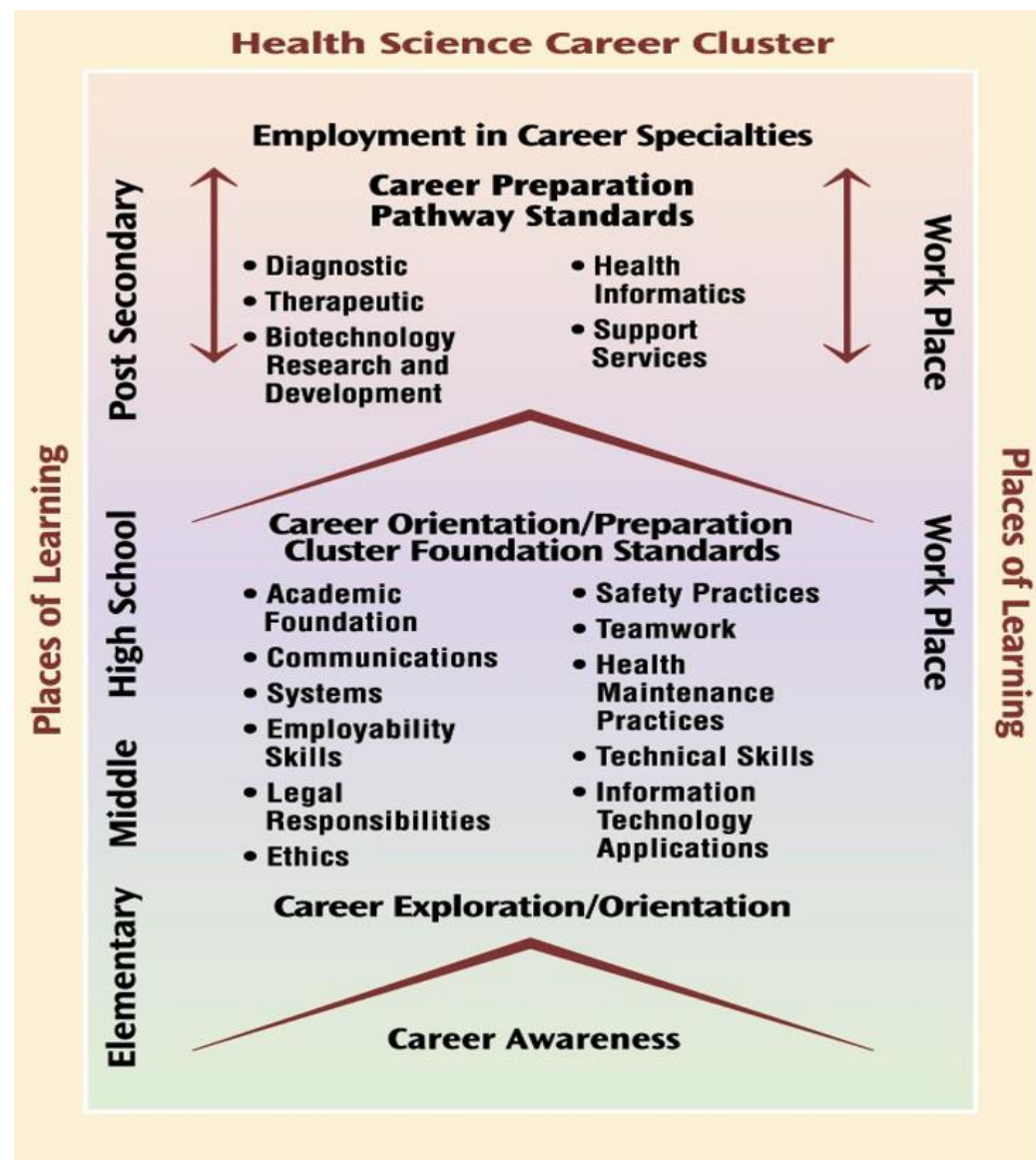
30-42 hours of
content

Content Applied to Plan of Study

		Name _____		SAMPLE				
		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	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 recommended.	**Health Science I: Introduction to Health Science **Information Technology Applications **Health Science II: Health, Safety and Ethics in the Health Environment	Occupations Requiring Less than Baccalaureate Degree ► Dental Assistant/Hygienist ► EMT/Paramedic ► Health Information Coder ► Home Health Aide ► Medical Assistant ► Radiologic Technologist ► Registered Nurse Occupations Requiring Baccalaureate Degree ► Athletic Trainer ► Biochemist ► Biostatistician ► Geneticist ► Industrial Hygienist ► Nutritionist ► Occupational Therapist ► Physician (MD/DO) ► Physician's Assistant ► Psychologist ► Radiologist ► Research Scientist ► Speech/Language Pathologist
	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	
	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 Transcripted-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							

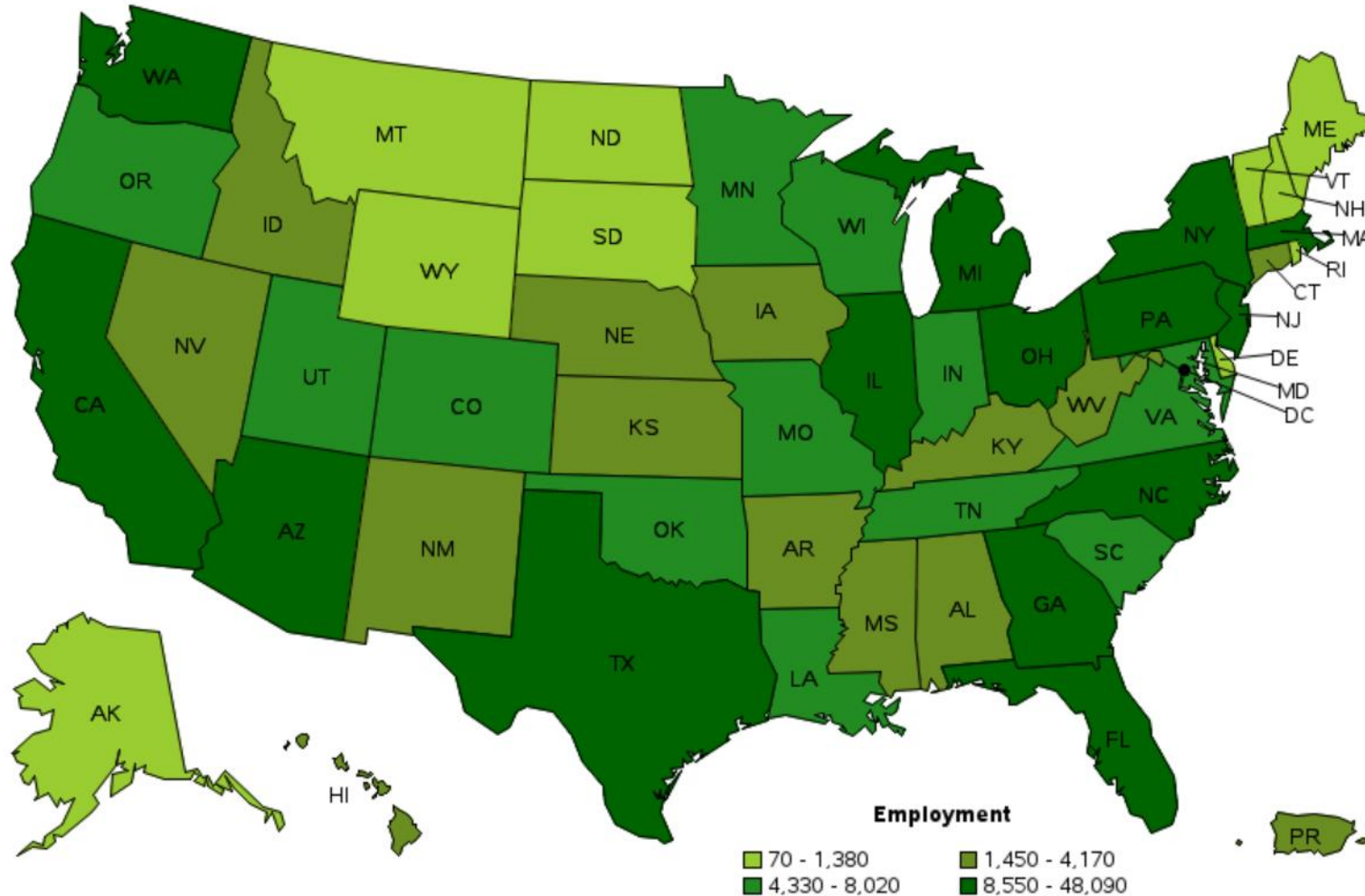
Begin to fit these hours of content into your courses.

Health Science Career Cluster



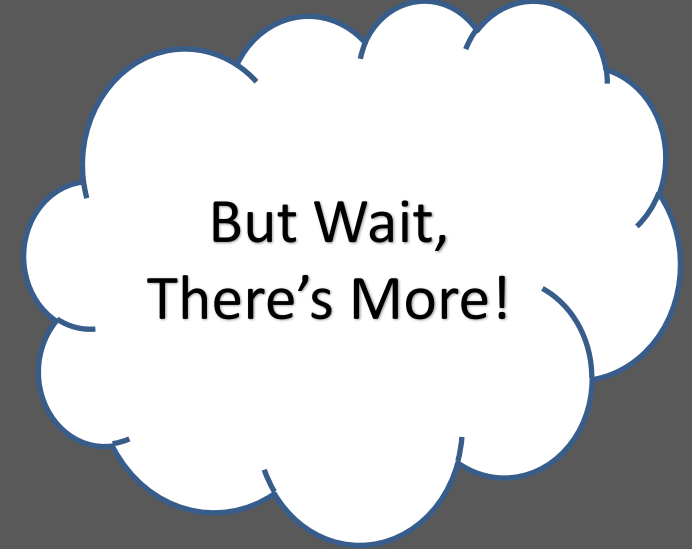
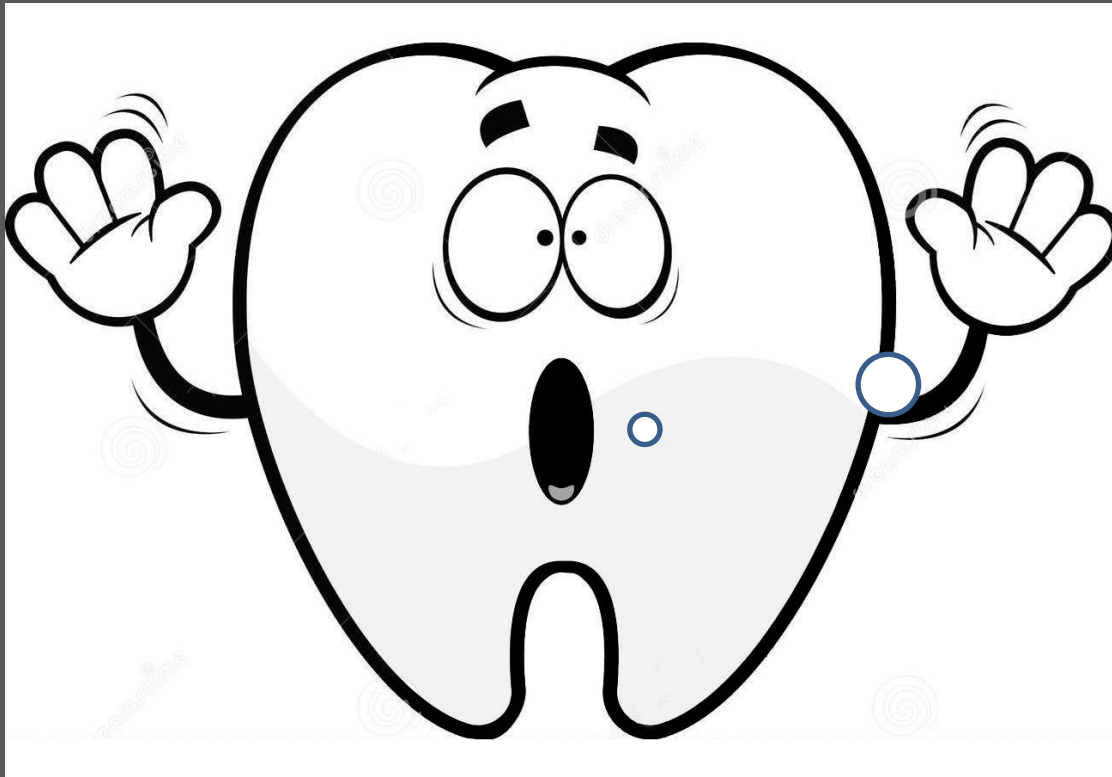
Occupational Outlook

Employment of dental assistants, by state, May 2021

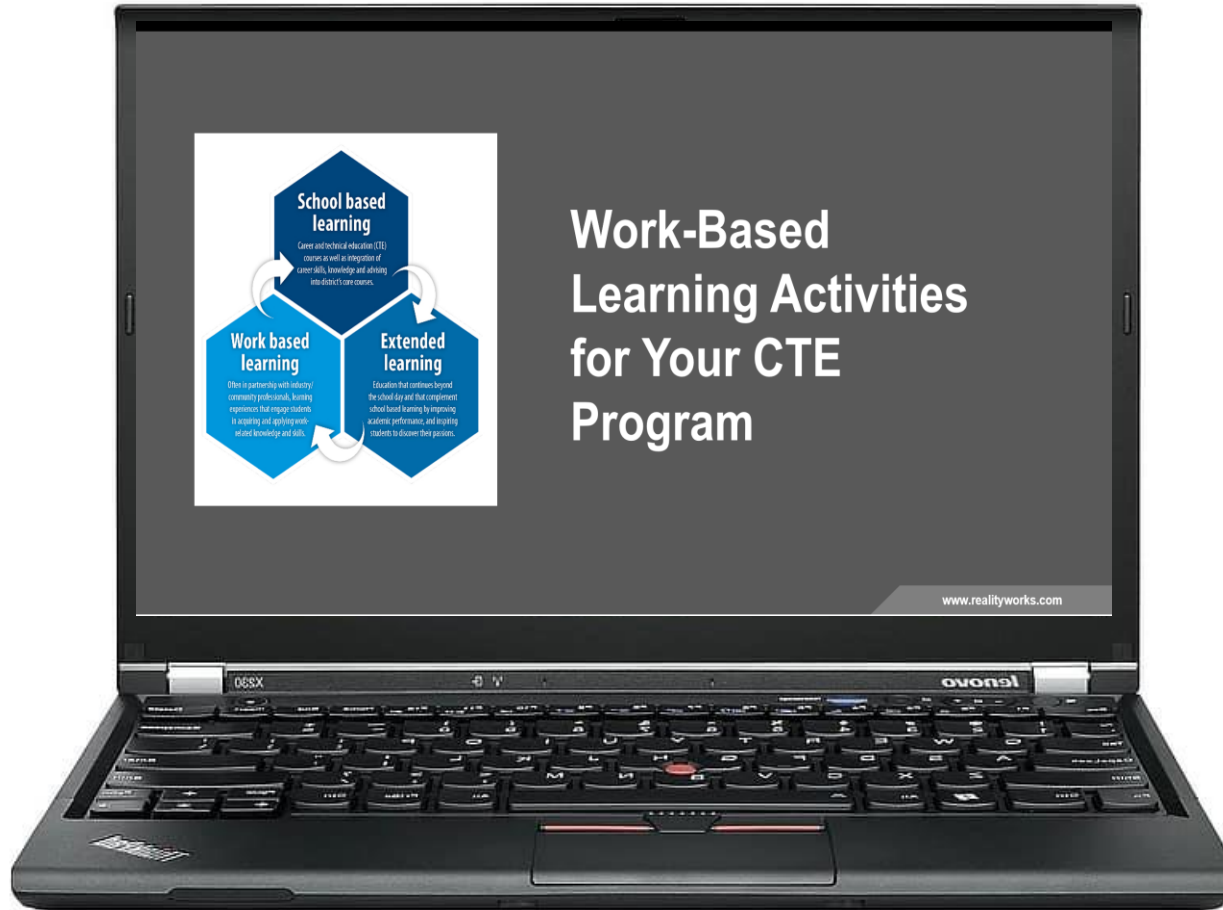


Employment of dental assistants is projected to grow 8 percent from 2021 to 2031, faster than the average for all occupations.

Bureau of Labor Statistics



Realityworks Webinars



<http://realityworks.com/webinars>

More FREE Resources

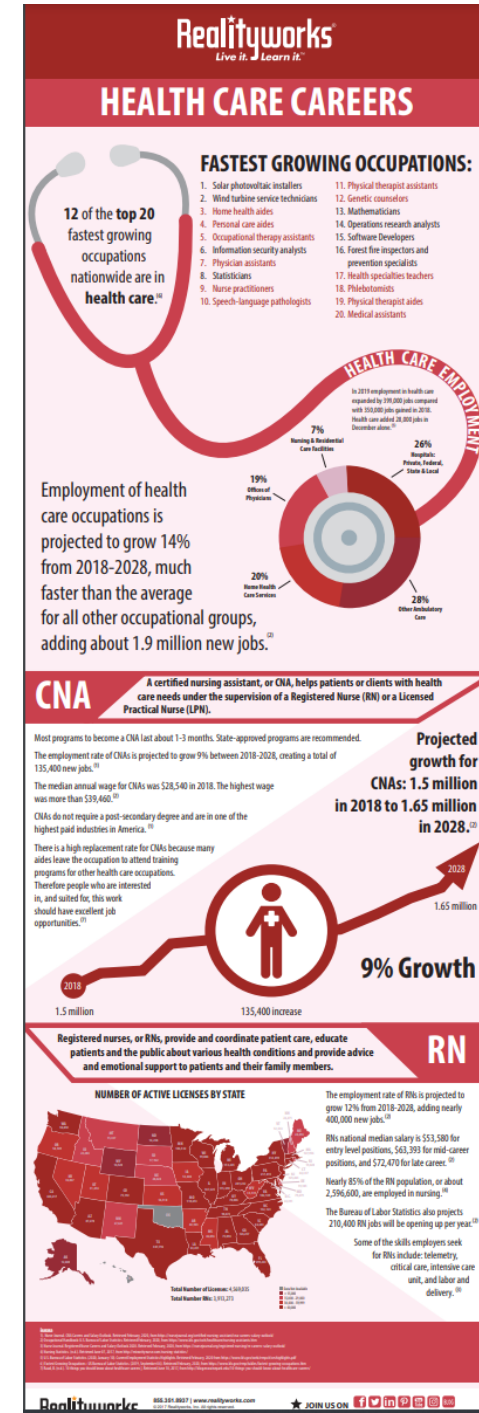
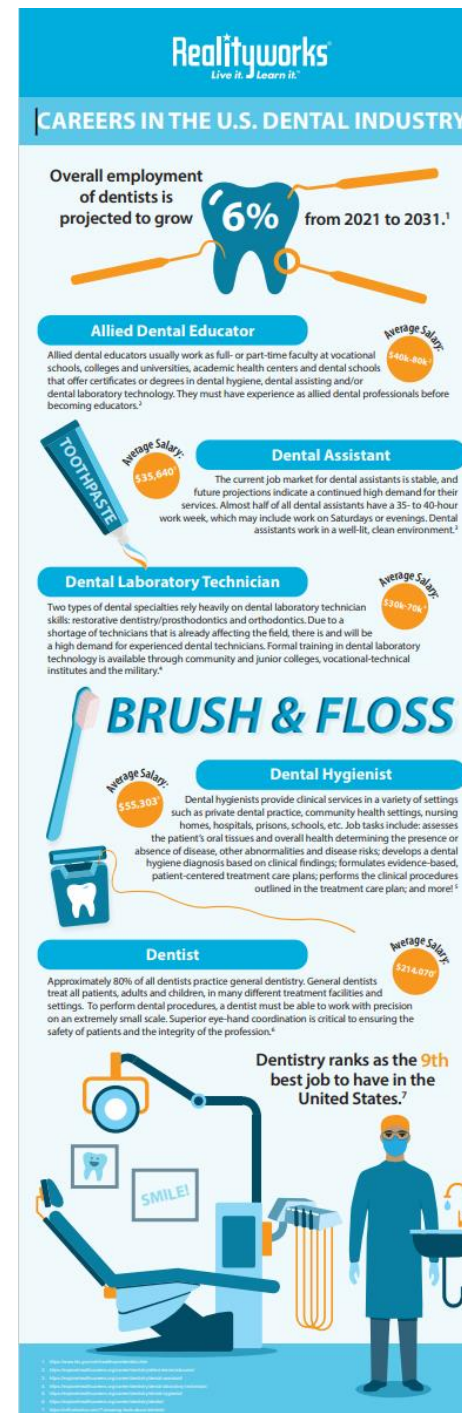
FREE Posters – dental and health science infographics

<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/>



Additional Resources



- Realityworks Blog
 - <http://realityworks.com/blog/>
- Facebook
 - <https://www.facebook.com/realityworksinc>
- Twitter
 - <https://twitter.com/RealityworksInc>

More FREE 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

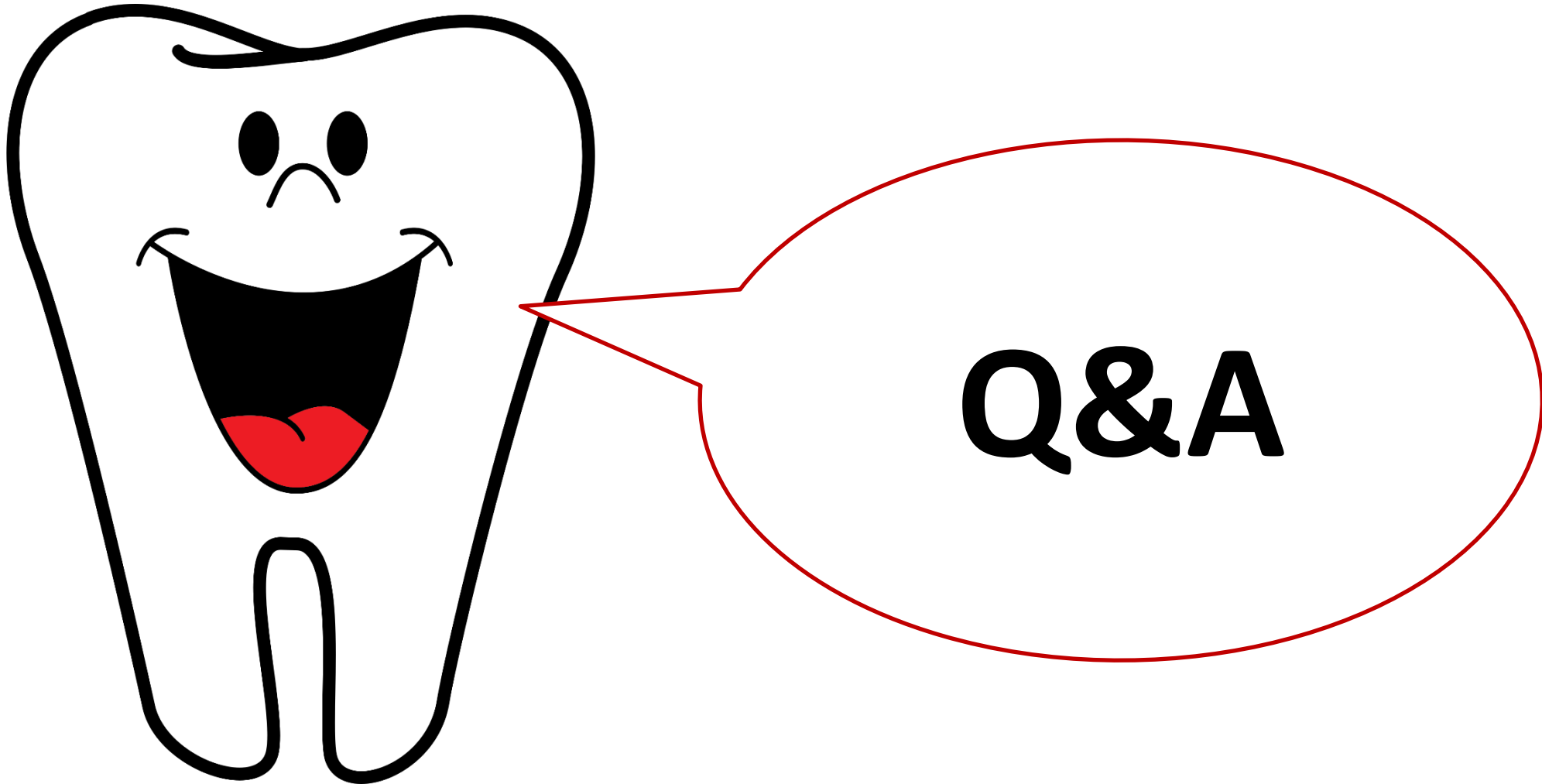
Planning Tools for Training Dental Assistants on the Job

<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>





Q&A

For more information, please contact Realityworks, Inc.
through email at information@realityworks.com
or call toll free at 800.830.1416

