

CTAN Name: Introduction to Dental Assisting

This document contains information about two Career-Technical Articulation Numbers (CTANs) for the Dental Assisting Career-Technical Assurance Guide (CTAG).

- 1. Introduction to Dental Assisting :** CTAN alignment with the Health Sciences Pathway in the Career Field Technical Content Standards of the Ohio Department of Education **(ODE course: 72075)**

Course Description: This course is an introduction to dental assisting. The role of the dental assistant and the profession of dentistry are covered. In addition, dental terminology, ethics and laws are introduced.

Semester Credit Hours: 1

Alignment:

All learning outcomes are considered essential and are marked with an asterisk*.

Learning Outcomes The student will be able to:	Competencies in ODE’s Revised Career Field Technical Content Standards
1. Describe the history of dentistry and dental assisting. *	1.1.2 Identify the scope of career opportunities and the requirements for education, training, certification, licensure and experience.
2. Explain the role of the dental assistant and their duties in creating a safe environment for the public.*	1.1.1 Identify the knowledge, skills, and abilities necessary to succeed in careers. 1.5.3 Use cultural intelligence to interact with individuals from diverse cultural settings. 1.5.7 Use intercultural communication skills to exchange ideas and create meaning. 3.1.1 Use standard precaution guidelines recommended by the governing bodies for reducing the risk of transmission of pathogens. 3.1.2 Maintain patients’ rights, respect individual’s choices, and obtain consent. 4.3.1 Describe the chain of infection.

	<p>4.3.2 Describe mechanisms for the spread of infection.</p> <p>4.3.3 Describe methods of controlling or eliminating microorganisms and the importance of practices that hinder the spread of infection.</p> <p>4.3.4 Identify and use appropriate level of personal protective equipment (PPE) when encountering body fluids, potential of splashing, or respiratory droplets.</p> <p>4.3.5 Demonstrate various decontamination techniques and procedures.</p> <p>4.3.6 Identify and follow standard precaution guidelines.</p>
3. Define dental terminology. *	3.7.1 Identify dental anatomy, surfaces, and tooth numbering systems.
4. Describe professionalism for dental assistants. *	<p>1.1.8. Identify the correlation between emotions, behavior, and appearance and manage those to establish and maintain professionalism.</p> <p>1.3.3 Use ethical character traits consistent with workplace standards (e.g., honesty, personal integrity, compassion, justice).</p> <p>1.5.3 Use cultural intelligence to interact with individuals from diverse cultural settings.</p> <p>1.5.7 Use intercultural communication skills to exchange ideas and create meaning.</p>
5. Name and describe members of the dental team. *	3.7.4 Compare and contrast various specialties in dentistry.
6. Identify dental specialties and team member roles in various fields.*	3.7.4 Compare and contrast various specialties in dentistry.
7. Describe the practices of basic oral hygiene.*	<p>1.1.12 Identify healthy lifestyles that reduce the risk of chronic disease, unsafe habits and abusive behavior.</p> <p>1.5.3 Use cultural intelligence to interact with individuals from diverse cultural settings.</p> <p>1.5.7 Use intercultural communication skills to exchange ideas and create meaning.</p> <p>3.2.5 Communicate relevant information to promote, maintain and restore overall wellness.</p>
8. Explain the laws and rules in dentistry and licenses and	6.2.3 Interpret regulatory requirements, standards of practice, legal responsibility, limitations and implications of actions and describe the appropriate avenues for reporting incidences of malpractice or negligence.

certificates required in the field.*	1.1.2 Identify the scope of career opportunities and the requirements for education, training, certification, licensure and experience.
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CTAN Name: Dental Radiography

4 **Dental Radiography:** CTAN alignment with the Health Sciences Pathway in the Career Field Technical Content Standards of the Ohio Department of Education (**ODE course: 72076**).

Course Description: The course will prepare the learner for the state license examination for exposing radiographs in a dental office setting. Includes properties of radiographs and imaging, the dental imaging machine, radiation safety, digital imaging, dental films, and the processing of radiographs.

Semester Credit Hours: 2

Alignment:

All learning outcomes are considered essential and are marked with an asterisk*.

Learning Outcomes The student will be able to:	Competencies in ODE's REVISED Career Field Technical Content Standards
1. Recognize the properties of x-radiation. *	3.7.8 Describe the science of radiation production, safety and protection.
2. Describe how dental radiographic images are produced. *	3.7.10 Describe principles of digital radiography and equipment needed.
3. Explain how kV, mA, and exposure time affect the x-ray beam. *	3.7.11 Describe common x-ray production and processing errors and their corrections.

4. Identify the proper range of kV and mA used in dental radiographic imaging. *	3.7.8 Describe the science of radiation production, safety and protection.
5. Discuss radiation injury and describe the effect on various tissues. *	3.7.8 Describe the science of radiation production, safety and protection.
6. List and describe ways to protect a patient before, during and after radiation exposure.*	<p>1.2.3 Identify and use verbal, nonverbal and active listening skills to communicate effectively.</p> <p>1.5.3 Use cultural intelligence to interact with individuals from diverse cultural settings.</p> <p>1.5.7 Use intercultural communication skills to exchange ideas and create meaning.</p> <p>3.1.1 Use standard precaution guidelines, recommended by the governing bodies for reducing the risk of transmission of pathogens.</p> <p>3.7.15 Prepare individuals for dental intervention.</p> <p>4.3.1 Describe the chain of infection.</p> <p>4.3.2 Describe mechanisms for the spread of infection.</p> <p>4.3.3 Describe methods of controlling or eliminating microorganisms and the importance of practices that hinder the spread of infection.</p> <p>4.3.4 Identify and use appropriate level of personal protective equipment (PPE) when encountering body fluids, potential of splashing, or respiratory droplets.</p> <p>4.3.5 Demonstrate various decontamination techniques and procedures.</p> <p>4.3.6 Identify and follow standard precaution guidelines.</p>
7. Define MPD, cumulative occupational dose, and ALARA.*	3.7.8 Describe the science of radiation production, safety and protection.
8. Demonstrate proper safety protocols when exposing radiographic images.*	3.7.8 Describe the science of radiation production, safety and protection.
9. Label the dental x-ray machine component parts and explain the function of each.*	3.7.10 Describe principles of digital radiography and equipment needed.

10. Assess equipment prior to use for safety and quality assurance.*	3.7.10 Describe principles of digital radiography and equipment needed.
11. Demonstrate preparing the armamentarium for dental radiographic images.*	3.7.14 Identify differences in common procedures and equipment used in pediatric and adult dentistry.
12. Demonstrate preparing the patient for dental radiographic images.*	1.2.6 Use proper grammar and expression in all aspects of communication. 1.5.3 Use cultural intelligence to interact with individuals from diverse cultural settings. 1.5.7 Use intercultural communication skills to exchange ideas and create meaning. 3.7.15 Prepare individuals for dental intervention.
13. Demonstrate techniques for exposing bitewing, periapical, panoramic, and occlusal dental radiographic images.*	3.7.12 Describe the paralleling and bisecting x-ray techniques and needed equipment. 3.7.13 Take intraoral and extra oral photographs and radiographs. 4.3.6 Identify and follow standard precaution guidelines.
14. Describe and demonstrate the processing, storing, and information security of dental radiographic images.*	1.4.2 Select and use software applications to locate, record, analyze and present information (e.g., word processing, e-mail, spreadsheet, databases, presentation, Internet search engines). 3.7.9 Describe the composition, sizes, types, mounting and storage procedures of dental x-ray. 3.1.3 Describe confidentiality guidelines in the Health Insurance Portability and Accountability Act (HIPAA). 6.2.5 Distinguish confidential and non-confidential information, and document and prioritize requests for personal health information according to privacy and confidentiality guidelines. 6.2.8 Implement administrative, physical and technical safeguards to maintain data integrity and validity.
15. Accurately arrange dental radiographic images.*	1.2.1 Extract relevant, valid information from materials and cite sources of information (e.g., medical reports, fitness assessment, medical test results). 3.7.9 Describe the composition, sizes, types, mounting and storage procedures of dental x-ray.

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