

# DENT-1341: FOUNDATIONAL PRINCIPLES OF DENTAL HYGIENE PRACTICE

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## Cuyahoga Community College

### Viewing: DENT-1341 : Foundational Principles of Dental Hygiene Practice

**Board of Trustees:**

December 2021

**Academic Term:**

Fall 2022

**Subject Code**

DENT - Dental Hygiene

**Course Number:**

1341

**Title:**

Foundational Principles of Dental Hygiene Practice

**Catalog Description:**

Study of ethical, moral and professional topics in Dental Hygiene. Introduction to ethical theories and principles related to patient care and decision-making models. Exploration of ethical dilemmas through applied case scenarios. Discussion and application of required policies and procedures related to the health and safety of the dental hygienist and patient.

**Credit Hour(s):**

1

**Lecture Hour(s):**

1

## Requisites

**Prerequisite and Corequisite**

Departmental approval, or acceptance to the Dental Hygiene program.

## Outcomes

**Course Outcome(s):**

Follow protocol when responding to emergencies.

**Objective(s):**

1. Identify the appropriate procedure to follow when reporting an emergency.
2. Explain the emergency evacuation procedure for the Dental Hygiene area.
3. Differentiate among the various types of emergency situations.

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**Course Outcome(s):**

Become familiar with the basic requirements included in the Occupational Safety and Health Administration's (OSHA) Bloodborne Pathogens Standard.

**Objective(s):**

1. Differentiate clinical procedures and equipment into the appropriate category; engineering control, work practice control or personal protective equipment (PPE).
2. Explain the Hepatitis B vaccination protocol.
3. Discuss the components of a Post-exposure Management Protocol.
4. Locate a copy of the Bloodborne Pathogens Standard and explain its contents.
5. Explain the epidemiology and symptoms of bloodborne diseases.
6. Identify the modes of transmission of bloodborne pathogens.

7. Describe the contents of an employer's exposure control plan including the location and how the employee can obtain a copy.
8. Indicate tasks and activities that may involve exposure to blood and other potentially infectious material (OPIM).

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**Course Outcome(s):**

Become familiar with the basic requirements included in the Occupational Safety and Health Administration's (OSHA) Hazardous Communication Standard.

**Objective(s):**

1. Locate a copy of the Hazardous Communication Standard and explain its contents.
2. Identify the consequences of exposure to hazardous chemicals in the workplace.
3. Identify various methods used to detect the presence or release of a hazardous chemical in the work area.
4. Identify ways employees can protect themselves against hazardous chemicals.
5. Interpret each category of a Safety Data Sheet (SDS).
6. Explain the Globally Harmonized System (GHS) of classification and labeling of chemicals.

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**Course Outcome(s):**

Become familiar with the basic requirements included in the Occupational Safety and Health Administration's (OSHA) Respiratory Protection Standard.

**Objective(s):**

1. Locate a copy of the Respiratory Protection Standard and explain its contents.
2. Explain the purpose of a respirator.
3. List the limitations and capabilities of a respirator.
4. Explain the proper use of the respirator in emergency situations including when the respirator fails.
5. Demonstrate how to inspect, don, check the seal, use and doff the respirator.
6. Explain the procedure for maintenance, storage and disposal of the respirator.
7. Recognize the medical signs and symptoms that may limit or prevent the effective use of the respirator.

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**Course Outcome(s):**

Describe the requirements of an infection control program in dentistry.

**Objective(s):**

1. Demonstrate hand hygiene procedures.
2. Practice the proper procedure involved in donning and doffing personal protective equipment (PPE).
3. Explain the protocol for cleaning, disinfecting and barrier-wrapping dental units.
4. Describe the protocol for dental unit waterline maintenance.
5. Identify acceptable pre-exposure, exposure and post-exposure infection control protocol during radiographic exposures.
6. Identify the steps involved in instrument processing.

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**Course Outcome(s):**

Practice Safe Operating Procedures when using x-radiation.

**Objective(s):**

1. Locate a copy of the Radiation Safety and Instruction Manual and explain its contents.
2. Recall the location and use of radiation generating equipment.
3. Identify the health effects of ionizing radiation.
4. Identify the individual responsible for radiation protection in the Dental Hygiene Program.
5. Explain the responsibility of operators of radiation equipment to report malfunctions.
6. Describe Safe Operating Procedures for the Tri-C Dental Hygiene Program.

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**Course Outcome(s):**

Practice behavior representative of a health-care professional.

**Objective(s):**

1. Define basic philosophical terms in the study of ethics including theories, principles, values, duties and rights applicable to the provider-patient relationship.
2. Explain the purposes of the American Dental Hygienists' Association (ADHA) and its Code of Ethics.
3. Discuss the Core Values of ethical behavior.
4. Differentiate between an ethical issue and an ethical dilemma and explain the steps involved in the process of resolution.
5. Summarize the components of the Dental Hygiene Process of Care.
6. Identify the professional expectations in the Cuyahoga Community College Dental Hygiene Program and its application to clinical practice.
7. Demonstrate compliance with the contents of the Health Insurance Portability and Accountability Act (HIPAA).
8. Explain the behavioral expectations for each category of the Daily Performance Form and how each category complies with the ADHA Code of Ethics.
9. Identify the fundamental principles of evidence-based decision making and apply these principles to clinical practice.
10. Define the roles and responsibilities of dental professionals in each dental specialty.
11. Define acceptable practice of the use of personal and professional social media.

**Course Outcome(s):**

Explain the regulations of the Ohio Dental Practice Act.

**Objective(s):**

1. Explain the importance of the Dental Practice Act including acceptable standards for patient care.
2. Review the requirements for dental hygiene licensure.
3. Explain the duties of a dental hygienist as a health care provider.
4. Define terminology associated with jurisprudence.
5. Compare the concepts of civil versus criminal law.
6. Identify the specific conditions of malpractice.
7. Differentiate between implied and expressed contracts.
8. Discuss the two basic areas of risk management in a dental office.
9. Identify the rules and regulations related to the scope of dental hygiene practice.

**Course Outcome(s):**

Recognize social issues related to dental hygiene practice.

**Objective(s):**

1. Identify legislation that protects the patient and the dental hygienist against discrimination.
2. Define the terms equity and inclusion and explain the application as it pertains to dental hygiene program personnel, classmates, coworkers and patients.
3. Recognize the signs of domestic violence.
4. List the barriers related to access to care in dentistry.
5. Identify ways for a dental hygienist to be an advocate for oral health care.

**Methods of Evaluation:**

1. Ethical case discussions
2. Completion of Procter and Gamble courses
3. Objective quizzes and examinations
4. Course essay on professional ethics and growth
5. Honor Code of Conduct assignment
6. Process evaluations

**Course Content Outline:**

1. Emergency Procedure
  - a. Reporting an emergency
  - b. Emergency call stations
  - c. Campus police
  - d. Evacuation plan
  - e. Categories of emergency situations

- i. Medical
  - ii. Fire
  - iii. Power failure
  - iv. Active shooter
  - v. Bomb threat
  - vi. Suspicious package
  - vii. Weather
2. Bloodborne Pathogens Standard
  - a. Location of standard
  - b. Epidemiology & symptoms of associated diseases
    - i. Hepatitis B virus
    - ii. Hepatitis C virus
    - iii. Human Immunodeficiency virus
  - c. Modes of transmission
3. Exposure Control Plan
  - a. Location
  - b. Procedures involving exposure to blood and OPIM
  - c. Engineering controls
  - d. Work practice controls
  - e. Personal protective equipment (PPE)
    - i. Types
    - ii. Uses
    - iii. Location
    - iv. Donning and doffing
    - v. Handling
    - vi. Decontamination
    - vii. Disposal
    - viii. Selection of PPE
  - f. Hepatitis B Vaccination
    - i. Efficacy
    - ii. Safety
    - iii. Benefits
    - iv. Method of administration
4. Exposure Management Protocol
  - a. Clinician
  - b. Source
  - c. Reporting
5. Hazard Communication Standard
  - a. Location of standard
  - b. Identification of hazardous chemicals
  - c. Dispensary chemicals
  - d. Hazards of exposure
  - e. Protection measures
    - i. Work practices
    - ii. Emergency procedures
    - iii. PPE
  - f. Globally Harmonized System (GHS) of classifying chemicals
    - i. Labeling chemicals
  - g. Safety Data Sheets (SDS)
6. Respiratory Protection Standard
  - a. Location of standard
  - b. Respirators
    - i. Limits and capabilities
    - ii. Emergency use
    - iii. Proper use
    - iv. Maintenance, storage & disposal
7. Infection Control in Dentistry
  - a. Hand hygiene
  - b. Unit preparation

- c. Waterline maintenance
- d. Radiology
- e. Instrument processing
  - i. Receiving, cleaning, decontamination
  - ii. Preparation and packaging
  - iii. Sterilization
  - iv. Storage
  - v. Issue/Use
- 8. Safe Operating Procedures (SOP) for X-radiation
  - a. Location of the Radiation Safety and Instruction Manual
  - b. Location of equipment
  - c. Use of equipment
  - d. Ionizing radiation
  - e. Individual responsible for radiation protection
  - f. Reporting of malfunctions
  - g. Tri-C policy
- 9. Dental Hygiene Handbook: Policies and Professionalism
  - a. Professionalism
  - b. Personal hygiene
  - c. Dress code
  - d. Attendance requirements
  - e. Academic advising
  - f. Academic integrity
  - g. Academic probation
  - h. Academic standing
  - i. Dental Hygiene Program grading policy
  - j. Incomplete grades
  - k. Honor code
  - l. American Dental Hygienists' Association student membership
- 10. Introduction to Professional Ethics
  - a. Terminology
  - b. Ethical theories
    - i. Teleology
    - ii. Deontology
    - iii. Utilitarianism
      - 1. Rule
      - 2. Act
    - iv. Kant's Ethical Theory
    - v. Virtue Ethics
    - vi. Social Justice
  - c. Core Values
    - i. Autonomy
    - ii. Confidentiality
    - iii. Societal trust
    - iv. Nonmaleficence
    - v. Beneficence
    - vi. Justice and fairness
    - vii. Veracity
    - viii. Fidelity
  - d. Rights versus privileges
  - e. Maslow's Hierarchy of Needs
  - f. Cultural and religious beliefs
- 11. The American Dental Hygienists' Association Code of Ethics
  - a. Purpose
  - b. Beliefs
  - c. Core values
  - d. Principles

- i. Universality
    - ii. Complementarity
    - iii. Ethics
    - iv. Community
    - v. Responsibility
  - e. Standards of Professional Responsibility
    - i. To ourselves as individuals
    - ii. To ourselves as professionals
    - iii. To family and friends
    - iv. To clients
    - v. To colleagues
    - vi. To employees and employers
    - vii. To the Dental Hygiene Profession
    - viii. To community and society
    - ix. To scientific investigation
  - f. Other dental-related organizations
- 12. Ethical Issue Versus Ethical Dilemma
  - a. Definitions
  - b. Examples of ethical dilemmas
  - c. Analysis of ethical dilemmas using core values
  - d. Steps in the process of resolution
  - e. Decision-making models
- 13. Process of Care/Standards of Practice
  - a. Assessment
  - b. Diagnosis
  - c. Planning
  - d. Implementation
  - e. Evaluation
  - f. Documentation
- 14. Daily Performance Form
  - a. Categories
    - i. Professional Development
    - ii. Environmental Management
    - iii. Time Management
    - iv. Patient Care
- 15. Informed Consent & Informed Refusal
  - a. Implied consent
  - b. Expressed consent
  - c. Written consent
  - d. Harm-Avoidance Model
  - e. Autonomy-Enhancing Model
  - f. Exceptions to the rule
  - g. Informed consent and research
  - h. Disclosure by infected health care providers
- 16. Federal and State Laws
  - a. Health Insurance Portability and Accountability Act (HIPAA)
  - b. Occupational Safety and Health Administration (OSHA)
    - i. Centers for Disease Control
  - c. Patient Bill of Rights
  - d. Jurisprudence/Statutory Law
    - i. Civil law
      - 1. Tort law
        - a. Negligence
        - b. Malpractice
        - c. Assault and battery
        - d. Defamation
      - 2. Contract law
        - a. Conditions of a contract
        - b. Breach of contract

- c. Abandonment
    - d. Risk management
    - e. Documentation and record retention
    - f. Contractual obligations in patient care
  - 3. Case law
  - ii. Criminal Law
  - iii. Violations
    - 1. Insurance fraud
    - 2. Post/pre-dating treatment
    - 3. Additional treatment
- 17. Ohio State Dental Practice Act
  - a. Licensure
    - i. Obligations
    - ii. Relicensure
    - iii. Continuing education
    - iv. Suspension, restriction, revocation
  - b. Educational requirements
  - c. Preceptorship
  - d. Board examinations
  - e. Scope of practice
  - f. Supervision
    - i. General
    - ii. Indirect
    - iii. Direct
    - iv. Unsupervised
  - g. Alternative settings
  - h. Credentialing
    - i. Certification
    - j. Lobbying
- 18. Ethically-Based Professional Responsibilities
  - a. Evidence-based practice and decision making
    - i. Research
    - ii. Use of scientific literature and other research-based resources
  - b. Community service
  - c. Personal and professional conduct
    - i. Confidentiality
    - ii. Harassment or bullying
    - iii. Illegal or fraudulent activity
    - iv. Misuse of personal devices
    - v. Electronic devices
    - vi. Virtual learning platforms
    - vii. Social media
- 19. Social Issues
  - a. Diversity, equity and inclusion
  - b. Workplace legislation
    - i. Affirmative action
    - ii. Pregnancy Discrimination Act
    - iii. Family Medical Leave Act (FMLA)
    - iv. Americans with Disabilities Act
      - 1. Disabled patients
      - 2. Disabled employees
      - 3. Equipment adjustments
    - v. Age Discrimination in Employment Act
    - vi. Sexual harassment
      - 1. Reporting sexual harassment
      - 2. Additional examples
    - vii. Ethnic, religious and gender harassment
    - viii. Reporting domestic violence
    - ix. Child abuse

1. Signs
2. Neglect
3. Documenting
4. Information gathering
5. Reporting
- x. Spouse abuse
  1. Abusive behavior
  2. Documenting
  3. Reporting
  4. Co-workers
- xi. Elderly abuse
  1. Signs
  2. Reporting
- c. Access to care
  - i. Disparities
    1. International disparities
  - ii. Financial barriers
    1. Insurance
  - iii. Managed Care
    1. Capitation
    2. Dental Health Maintenance Organization (DHMO)
    3. Preferred Provider Organization (PPO)
  - iv. Government assistance
    1. Medicaid
    2. State Children's Health Insurance Program (CHIP)
    3. Medicare
    4. Health reform
  - v. Geographical and organizational barriers
    1. Geographical barriers
    2. Organizational barriers
    3. Increasing access
  - vi. Sociological and cultural barriers
    1. Discrimination
    2. Easing access
    3. Literacy
    4. Culture competencies
    5. Service-learning
  - vii. Justice
    1. Need based
    2. Merit based
    3. Other considerations
  - viii. Advocacy
    1. Advocating for the patient
    2. Collaborating
    3. Lobbying
    4. Implementing

## Resources

Beemsterboer, P.L. (2016) *Ethics and Law in Dental Hygiene*, New York: Elsevier Education.

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Kimbrough-Walls, V. J. and Lautar, C. J. (2012) *Ethics, Jurisprudence, and Practice Management In Dental Hygiene*, New Jersey: Pearson Education, Inc.

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Miller, Chris. (2018) *Infection Control and Management of Hazardous Materials for the Dental Team*, St. Louis Missouri: Elsevier Education.

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Malamed, Stanley F. (2015) *Medical Emergencies in the Dental Office*, St. Louis: Elsevier Education.

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Lo, Bernard. (2019) *Resolving Ethical Dilemmas: A Guide for Clinicians*, Lippincott, Williams & Wilkins.

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Steinbock, B., London, A.J., Arras, J. (2015) *Ethical Issues in Modern Medicine: Contemporary Readings in Bioethics*, New York: McGraw-Hill Higher Education.

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**Resources Other**

[www.osap.org](http://www.osap.org) (<http://www.osap.org>) The Organizations for Safety, Asepsis and Prevention

[www.cdc.gov](http://www.cdc.gov) (<http://www.cdc.gov>) Centers for Disease Control and Prevention

[www.osha.gov](http://www.osha.gov) (<http://www.osha.gov>) Occupational Safety and Health Administration

[www.adha.org](http://www.adha.org) (<http://www.adha.org>) American Dental Hygienists' Association

[www.ada.org](http://www.ada.org) (<http://www.ada.org>) American Dental Association

[www.societyfordentaethics.org](http://www.societyfordentaethics.org) (<http://www.societyfordentaethics.org>) American Society for Dental Ethics

[www.odh.ohio.gov](http://www.odh.ohio.gov) (<http://www.odh.ohio.gov>) Ohio Department of Health (Radiology Information)

[www.dental.ohio.gov](http://www.dental.ohio.gov) (<http://www.dental.ohio.gov>) Ohio Dental Practice Act

[www.nih.gov](http://www.nih.gov) (<http://www.nih.gov>) National Institutes of Health

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