

**INSTITUTIONAL COURSE NUMBER****INFECTION PREVENTION, HAZARDOUS WASTE MANAGEMENT,  
AND HAZARD COMMUNICATION COMPLIANCE***Prototypical Syllabus*

Course Director: \_\_\_\_\_

Preferred Mode of Communication: \_\_\_\_\_

Office Location: \_\_\_\_\_

Office Hours: \_\_\_\_\_

**Course Description**

This course will present evidence-based information to facilitate compliance with and implementation of recommendations made by federal, state/provincial, and local agencies and professional organizations. The topics included are infection prevention, hazardous waste management, and hazard communication in oral healthcare settings. The content is intended to meet initial and annual educational requirements as mandated by OSHA and other federal, state, local and professional organizations.

The information, as reflected in these modules, is intended to meet (1) individual institutional training requirements of Dental Students, Dental Hygiene Students, and Dental Assistant Students, (2) to serve as the basis for an in-service training program of office personnel, and (3) to be used as a resource by oral healthcare personnel wishing to review evidence-based information on specific topics.

**Course Goal**

The primary educational goal is to provide oral healthcare personnel sufficient knowledge and skills (1) to develop and implement an effective infection prevention program, (2) to develop and implement an effective hazardous waste management program, and (3) to develop and implement an effective hazard communication program.

**Educational Outcomes**

Upon completion of the Infection Control modules, participants should be able to:

**CORE MODULES**

- Module I: Introduction to Infection Prevention
  - Recognize the modes of transmission of pathogens.
  - Identify methods of transmission and prevention for pathogens in oral healthcare
  - List precautions intended to prevent or minimize healthcare-associated infections.
  - Demonstrate an understanding of the rationale for Standard and Transmission-based Precautions based on their modes of transmission.
  - Understand the purpose and general requirements of OSHA's Standard and Transmission-based precautions.
- Module II: Vaccines for Oral Healthcare Personnel
  - Recall the mandated and recommended vaccinations for OHCP.
  - Explain the role of and implement vaccination strategies intended to reduce the risk of vaccine preventable diseases.
  - List the schedule for receiving the recommended vaccinations.

- Module III: Hand Hygiene
  - Explain the role of and implement hand hygiene strategies to prevent or reduce the risk of healthcare-associated infections.
  - List the steps of each type of hand hygiene practice: handwashing, antiseptic handwashing, antiseptic hand rubs, and surgical hand antisepsis.
  - Identify when to implement each type of hand hygiene practice.
  
- Module IV: Personal Protective Equipment
  - Explain the use of personal protective equipment to prevent healthcare-associated infections
  - List the steps of donning and doffing/removing PPE.
  - Recall the medical classification of each component of PPE
  
- Module V: Sterilization and Disinfection of Patient Care Items
  - Compare and contrast the methods and results of disinfection versus sterilization
  - Categorize patient care devices as critical, semi-critical or non-critical
  - Implement disinfection and sterilization procedures to prevent or reduce the risk of healthcare-associated infections.
  
- Module VI: Environmental Infection Prevention and Control
  - Identify the recommended products and techniques for cleaning and disinfecting environmental surfaces
  - Recognize the role of and implement environmental infection control procedures to provide a safer work environment.

### **PRACTICAL INFECTION CONTROL APPLICATION EXPERIENCE**

*Directions for application experience and grading rubric to be developed by individual institution.*

*For example:*

- Demonstrate/apply in a clinical setting knowledge related to respiratory hygiene/cough etiquette; hand hygiene; donning and removing PPE.
- Prepare the dental treatment room (DTR), complete turn-around procedures between patients; securing the DTR at the end of the day
- Implement sterilization and disinfection procedures

### **ADVANCED MODULES**

- Module VII: Infection Control-related Administrative Policies and Work Restrictions
  - Recall administrative policies to deal with patients and dental professionals with latex allergies and transmissible diseases.
  
- Module VIII: Postexposure Evaluation and Follow-Up
  - Describe the recommended evaluation and follow-up for each type of common pathogen exposure to reduce the risk of post-exposure healthcare-associated infections.
  
- Module IX: Regulated Medical Waste Management
  - Understand the principles of and implement strategies for regulated medical waste management.

- Module X: Hazard Communication Compliance and Waste Management
  - Understand the purpose and general requirements of EPA’s Hazardous Waste Standard.
  - Identify hazardous waste generated in the oral healthcare setting
  - Understand the general requirements of HazCom 2012 and why employers must have a HazCom training program for their employees;
  - Identifies parts of the rule that are relevant to oral healthcare settings; and develop and implement a written HazCom program.

Module	Title
<b>CORE MODULES</b>	
<b>Module I</b>	ce582 – <a href="#">Introduction to Infection Prevention</a>
<b>Module II</b>	ce479 – <a href="#">Mandated, Highly Recommended, and Other Vaccines for Oral Healthcare Personnel</a>
<b>Module III</b>	ce590 – <a href="#">Hand Hygiene</a>
<b>Module IV</b>	ce483 – <a href="#">Personal Protective Equipment</a>
<b>Module V</b>	ce474 – <a href="#">Sterilization and Disinfection of Patient-care Items in Oral Healthcare Settings</a>
<b>Module VI</b>	ce363 – <a href="#">Environmental Infection Prevention and Control</a>
<b>ADVANCED MODULES</b>	
<b>Module VII</b>	ce473 – <a href="#">Infection Control-related Administrative Policies and Work Restrictions</a>
<b>Module VIII</b>	ce472 – <a href="#">Postexposure Evaluation and Follow-up</a>
<b>Module IX</b>	ce498 – <a href="#">Regulated Medical Waste Management</a>
<b>Module X</b>	ce697 – <a href="#">Hazard Communication Compliance and Waste Management</a>

### **Outcome Assessment in Educational Settings**

*Predicated on institutional policy, for example:*

Assessment of educational outcomes related to knowledge will be based on multiple-choice examinations at the end each module. Assessment of educational outcomes related to clinical skills will be based on the practicum and will be appraised on a pass/fail scale. Students must pass educational outcomes related to both knowledge and clinical skills to pass the course.

### **Grading Policy in Educational Settings**

*Predicated on institutional policy, for example:*

The responsibility for assigning grades rests exclusively with the Course Director. Students are expected to successfully complete all eleven online modules prior to the Practicum, i.e., the 12<sup>th</sup> module. Students are allowed as many attempts on modules 1 to 11 as may be necessary to obtain a passing grade (as determined by the Course Director).

### **Attendance Policy in Educational Settings**

*Predicated on institutional policy, for example:*

The course is designed with a “blended format,” consisting of online learning modules and clinical application experience. Completion of the online modules is expected prior to the mandated Practicum.

### **Missed Exam/Practicum Policy in Educational Settings**

*Predicated on institutional policy, for example:*

If unable to complete the online learning modules in a timely fashion or attend the Practicum, the student must inform the Course Director and the Office of Student Affairs in writing. Failure to pass the written examination or the Practicum will result in an “F” grade in the course.

### **Remediation Policy in Educational Settings**

*Predicated on institutional policy, for example:*

The decision to allow a student to remediate an “F” grade rests with the Academic Performance Committee. Remediation may be recommended according to the following criteria:

- If the “F” grade resulted from failure to satisfactorily complete the online modules and/or the practicum, the student may be allowed to remediate within a specified period of time and will be awarded a grade of “D” or “C.”
- If a student has less than a 2.0 GPA, but has no “F” grades, the Academic Performance Committee may allow remediation for a “D” grade provided a “C” grade would bring the GPA up to a 2.0.

### Additional Resources

- Commission on Dental Accreditation Standards for Dental, Dental Hygiene and Dental Assisting Programs  
<https://coda.ada.org/en/standards>
- Commission on Dental Accreditation of Canada. Accreditation Requirement for Dental, Dental Hygiene and Dental Assisting Programs  
[http://www.cda-adc.ca/cdacweb/en/accreditation\\_requirements/](http://www.cda-adc.ca/cdacweb/en/accreditation_requirements/)
- American Dental Association  
<http://www.ada.org>
- American Institute of Architects Academy of Architecture for Health  
<https://www.ashe.org/>
- American Society of Heating, Refrigeration, Air-Conditioning Engineers  
<http://www.ashrae.org>
- Association for Professionals in Infection Control and Epidemiology, Inc. <https://apic.org/>
- CDC Resources
  - Advisory Committee on Immunization Practices  
<https://www.cdc.gov/vaccines/acip/index.html>
  - CDC, Division of Healthcare Quality Promotion  
<https://www.cdc.gov/nceid/dhqp/index.html>
  - CDC, Division of Oral Health, Infection Control  
<http://www.cdc.gov/OralHealth/infectioncontrol/index.htm>
  - CDC, Morbidity and Mortality Weekly Report  
<http://www.cdc.gov/mmwr>
  - CDC, NIOSH  
<http://www.cdc.gov/niosh/homepage.html>
  - CDC Recommends, Prevention Guidelines System  
<https://wonder.cdc.gov/wonder/prevguid/prevguid.html>

- Crosstex Medical Company  
<https://www.crosstexbms.com/resources/industry-resources/>
- EPA, Antimicrobial Chemicals  
<https://www.epa.gov/pesticides/antimicrobial-pesticides>
- FDA  
<http://www.fda.gov>
- Immunization Action Coalition  
<http://www.immunize.org/acip>
- Infectious Diseases Society of America  
<https://www.idsociety.org/>
- OSHA, Dentistry, Bloodborne Pathogens  
<http://www.osha.gov/SLTC/dentistry/index.html>  
<http://www.osha.gov/SLTC/bloodbornepathogens/index.html>
- Organization for Safety and Asepsis Procedures  
<http://www.osap.org>
- Society for Healthcare Epidemiology of America, Inc  
<https://shea-online.org/>

#### CANADIAN RESOURCES

- Public Health Agency of Canada - Disease Prevention and Control Guidelines  
[www.phac-aspc.gc.ca](http://www.phac-aspc.gc.ca)
- Canada Centre for Occupational Health and Safety  
<https://www.ccohs.ca/>
- Workplace Hazardous Materials Information System (WHMIS)  
<https://www.canada.ca/en/health-canada/services/environmental-workplace-health/occupational-health-safety/workplace-hazardous-materials-information-system.html>