



# Certified in Dental Infection Prevention and Control™ (CDIPC™)

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## Exam Outline and Suggested References

Effective 03/11/2020

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# CDIPC

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## Exam Outline Overview

### CDIPC Exam Weighting by Domain

- I. Policies and Administrative Responsibilities (15%)
- II. Patient and Dental Health Care Provider Protection (25%)
- III. Environmental Asepsis and Disinfection (30%)
- IV. Sterilization and Instrument Processing (30%)

### CDIPC Pretest Exam Administration Details

- Number of Questions: 200 (Pretest event only)
- Time for Exam: 150 minutes (Pretest event only)
- Tutorial Time: 5 minutes
- Comment Time: 5 minutes

The candidate's overall performance on the exam determines the candidate's pass/fail status.

# CDIPC Exam Outline

Organization for Safety, Asepsis and Prevention (OSAP) and Dental Assisting National Board (DANB) exams are created using the exam outline, which is reviewed by subject matter experts (e.g., Certified Dental Assistant™ [CDA®] certificants, dentists and experts in infection control). The outline was developed using a content validation study (CVS), which includes a job analysis survey where practitioners of infection control are surveyed about how often tasks are performed and how important competent performance of tasks is to the health and safety of the public. DANB's Board of Directors reviews and approves all updates to this exam outline. The CDIPC exam measures a candidate's knowledge of national dental infection prevention and control practices.

## Domain I: Policies and Administrative Responsibilities (15%)

- A. Demonstrate understanding of infection control laws, standards, guidelines, regulations, and rules (i.e., federal, state, regional, local) as they apply to the following, including but not limited to how to:**
1. develop, review, and update infection control policies and procedures for the dental setting.
  2. evaluate infection control programs and compliance.
  3. maintain manufacturer's instructions for sterilization of devices.
  4. select and maintain personal protective clothing.
  5. follow Centers for Disease Control and Prevention (CDC) immunization recommendations for healthcare personnel.
- B. Demonstrate understanding of hazard communication standards as they relate to infection control practices and products, including but not limited to:**
1. handling, use, storage and disposal of disinfection and sterilization chemicals.
  2. safety data sheets.
  3. documentation of regulated medical waste disposal.
- C. Describe how to select, receive/inspect, store, maintain and document infection control supplies inventory.**

## Domain II: Patient and Dental Healthcare Personnel Protection (25%)

### A. Disease transmission

1. Demonstrate understanding of infection control concepts, including but not limited to:
  - a. chain of infection.
  - b. modes of infectious disease transmission.
  - c. transmission of emerging diseases.

### B. Patient and dental healthcare personnel safety

1. Identify how to maintain aseptic conditions.
2. Describe how to apply standard precautions to prevent the spread of infectious diseases.
3. Describe patient clinical safety precautions, including safety eyewear.
4. Identify hand hygiene protocols based on procedure, including selection of product and duration.
5. Demonstrate understanding of how to protect the patient and operator by using personal protective equipment (PPE).
  - a. Determine and select PPE for use based on task.
  - b. Describe protocols for using PPE, including but not limited to:
    - i. donning.
    - ii. doffing.
    - iii. preparing for reuse.
    - iv. disposal.
6. Describe how to prevent backflow in low-volume evacuation.

### C. Occupational exposure and safety

1. Describe protocols for exposure prevention and post-exposure management.
2. Demonstrate understanding of sharps safety, including but not limited to:
  - a. engineering and work practice controls for sharps safety.
  - b. selection, evaluation and use of sharps safety devices.
  - c. safe injection practices.
3. Identify personnel work restrictions as they apply to medical conditions and work-related illnesses.

## Domain III: Environmental Asepsis and Disinfection (30%)

**A. Apply the principles of infection control protocols to prevent cross-contamination in the dental setting.**

**B. Follow manufacturers' Instructions for Use (IFUs).**

**C. Surface Asepsis**

1. Describe procedures and preparation of products for cleaning/disinfection contaminated surfaces.
2. Describe use of surface barriers, including but not limited to:
  - a. selection.
  - b. placement.
  - c. removal and disposal.

**D. Describe infection control procedures and precautions for the following, including but not limited to:**

1. dental radiography.
2. dental laboratory materials/equipment.
3. evacuation systems.
4. handling biological materials.
5. high-tech devices.
6. laser/electrosurgery plumes or surgical smoke.
7. oral surgical procedures.
8. technique for parenteral medications.

**E. Demonstrate understanding of dental unit water quality, including but not limited to:**

1. protocols for maintaining water quality.
2. monitoring and testing.
3. improvement methods.
4. use of sterile irrigation water.
5. boil-water advisories and procedures.

**F. Describe how to process incoming/outgoing lab cases and laboratory equipment.**

**G. Define disposal procedures, including but not limited to:**

1. waste types.
2. disposable items.

## **Domain IV: Sterilization and Instrument Processing (30%)**

**A. Determine sterilization/disinfection procedures based on Spaulding classifications.**

**B. Demonstrate understanding of accepted guidelines for instrument processing according to infection control procedures, including but not limited to:**

1. preparing work surface for packaging contaminated items.
2. transporting and receiving items.
3. cleaning and/or decontaminating items.
4. inspecting items for cleanliness and functionality.
5. following manufacturer's instructions for reprocessing devices and instruments to select sterilization method and cycle.
6. selecting packaging method and materials.
7. assembling, packaging, and labeling items, including slow-speed/high-speed handpieces (including or not including motors).
8. selecting and placing biological, chemical, and/or mechanical monitoring.
9. loading and unloading sterilizer.
10. preparing work area for sterile storage.
11. storing and distributing sterile items to point-of-use.
12. immediate use sterilization.

**C. Describe sterilization documentation.**

1. Document sterilization load contents.
2. Record instrument processing in sterilization logbook.

**D. Demonstrate understanding of sterilization monitoring.**

1. Examine package integrity (pre-sterilization, post-sterilization).
2. Respond to sterilization failure and device malfunctions.
3. Interpret output of sterilization tests and follow sign-off procedures.

# CDIPC Exam Suggested References

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DANB exam committees use the following textbooks and reference materials to develop this exam. This list does not include all the available textbooks and materials for studying for this exam; these are simply the resources that exam committee subject matter experts determined as providing the most up-to-date information needed to meet or surpass a determined level of competence on this exam. Any one reference will likely not include all the material required to study to take the exam.

This list is intended to help prepare for this exam. It is not intended to be an endorsement of any of the publications listed. You should prepare for DANB exams using as many different study materials as possible.

## Suggested Exam Preparation References

1. Centers for Disease Control and Prevention (CDC). [www.cdc.gov](http://www.cdc.gov).
  - *Guidelines for Infection Control in Dental Health-Care Settings — 2003* (MMWR, Vol. 52, RR 17). [www.cdc.gov/mmwr/preview/mmwrhtml/rr5217a1.htm](http://www.cdc.gov/mmwr/preview/mmwrhtml/rr5217a1.htm)
  - *Summary of Infection Prevention Practices in Dental Settings: Basic Expectations for Safe Care*. Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Chronic Disease Prevention and Health Promotion, Division of Oral Health; 2016. [www.cdc.gov/oralhealth/infectioncontrol/summary-infection-prevention-practices/index.html](http://www.cdc.gov/oralhealth/infectioncontrol/summary-infection-prevention-practices/index.html)
2. U.S. Department of Labor, Occupational Safety and Health Administration (OSHA). [www.osha.gov](http://www.osha.gov).
  - *Hazard Communication Guidelines for Compliance* (Publication 3111). [www.osha.gov/Publications/osa3111.pdf](http://www.osha.gov/Publications/osa3111.pdf)
  - *Bloodborne Pathogens Standard* (1910.1030). [www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1030](http://www.osha.gov/laws-regs/regulations/standardnumber/1910/1910.1030)
3. Miller, Chris, and Charles J. Palenik. *Infection Control and Management of Hazardous Materials for the Dental Team*. 6th ed. St. Louis, MO: Elsevier/Mosby, 2018.

## Additional/Optional Study Resources

1. Bird, Doni L., and Debbie S. Robinson. *Essentials of Dental Assisting*. 6th ed. St. Louis, MO: Elsevier/Saunders, 2017.
2. Bird, Doni L., and Debbie S. Robinson. *Modern Dental Assisting*. 12th ed. St. Louis, MO: Elsevier/Saunders, 2018.
3. Molinari, John, and Jennifer Harte. *Cottone's Practical Infection Control in Dentistry*. 3rd ed. Philadelphia, PA: Lippincott, 2010.

4. Phinney, Donna J., and Judy H. Halstead. *Dental Assisting: A Comprehensive Approach*. 5th ed. Clifton Park, NY: Delmar, 2018.
5. The Organization for Safety and Asepsis (OSAP). [www.osap.org](http://www.osap.org).
  - *From Policy to Practice: OSAP's Guide to the Guidelines*
  - *OSAP's OSHA & CDC Guidelines: Interact Training System*
6. The American Dental Assistants Association (ADAA). [www.dentalassistant.org](http://www.dentalassistant.org).
  - *Infection Control in the Dental Office: A Review for a National Infection Control Exam* (Course #0906)
  - *Guidelines for Infection Control in Dental Health Care Settings* (Course #1305)
7. The DALE Foundation. [www.dalefoundation.org](http://www.dalefoundation.org).
  - *DANB ICE Review*
  - *DANB ICE Practice Test*
  - *Glossary of Dental Terms*
8. OSAP-DALE Foundation Dental Infection Prevention and Control Certificate program. [www.dentalinfectioncontrol.org](http://www.dentalinfectioncontrol.org)

## State Regulations

Each state's dental board implements regulations and establishes rules for delegating legally allowable duties to dental assistants. Passing one or more of the DANB exams or earning DANB certification only conveys authority to perform these duties in those states that recognize these exams or this certification as meeting state dental assisting requirements. This information is at [www.danb.org](http://www.danb.org).