



# Oregon Expanded Functions Orthodontic Assisting with Infection Control Exam

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## Exam Outline and Study Resources

**Section 1:** Oregon Expanded Functions Orthodontic Assisting

**Section 2:** Infection Control

Effective 07/01/2025

## Exam Weighting by Section and Domain

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### Section 1: Oregon Expanded Functions Orthodontic Assisting

- I. Place Fixed Orthodontic Appliances (65-70%)
- II. Fit and Adjust Headgear (5 - 10%)
- III. Take Impressions for Study Models or Temporary Oral Devices (5 - 10%)
- IV. Anatomy (15 – 20%)

### Section 2: Infection Control

- I. Prevention of Disease Transmission (20%)
- II. Prevention of Cross-contamination (34%)
- III. Process Instruments and Devices (26%)
- IV. Occupational Safety and Administration Protocols (20%)

## Exam Administration

Number of Multiple-Choice Questions	<b>Exam: 140</b>
	Section 1: 65 questions
	Section 2: 75 questions
Time for Exam (minutes)	<b>Exam: 120</b>
	Section 1: 60 minutes
	Section 2: 60 minutes

### Testing Options

This exam is administered in-person and through remote online proctoring. The candidate may choose the method they prefer. Remote proctoring allows candidates to take exams using their own computer while being remotely monitored by webcam and microphone.

# Section 1: Oregon Expanded Functions Orthodontic Assisting

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## I. Place Fixed Orthodontic Appliances (65 - 70%)

- A. Prepare teeth for bonding or placement of orthodontic appliances
- B. Select, pre-position and cure orthodontic brackets, attachments and/or retainers
- C. Remove separators
- D. Select and size bands
- E. Select, place and remove arch wires and ligature ties
- F. Remove bands, brackets and attachments with the removal of bonding material and cement, including the use of ultrasonic equipment

## II. Fit and Adjust Headgear (5 - 10%)

## III. Take Impressions for Study Models or Temporary Oral Devices, including but not limited to: (5 – 10%)

- A. Space maintainers
- B. Orthodontic retainers
- C. Occlusal guards

## IV. Anatomy (15 - 20%)

- A. Dentition
- B. Tooth surfaces and anatomical features
- C. Occlusion classifications
- D. Tooth numbering systems
- E. Anatomic landmarks of the oral cavity
- F. Dental caries
- G. Tooth anomalies
- H. Periodontal disease
- I. Vital signs
- J. Clinical charting

## Section 2: Infection Control

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### I. Prevention of Disease Transmission (20%)

- A. Infectious diseases
  - 1. Modes of disease 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.

### III. Process Instruments and Devices (26%)

- A. Process instruments and devices, including but not limited to:
  - 1. transport contaminated instruments/devices.
  - 2. follow workflow patterns.
  - 3. prepare and use chemical agents.
  - 4. select the system for sterilization.
  - 5. package and label for sterilization.
  - 6. load and unload the sterilizer.
  - 7. store and maintain sterility.
- B. Monitor and maintain processing equipment (e.g., sterilizers, ultrasonic cleaner).
  - 1. Select the system for sterilization monitoring.
  - 2. Interpret results from sterilization monitoring devices.
  - 3. Respond to equipment malfunctions.

### IV. Occupational Safety and Administration Protocols (20%)

- A. Occupational safety regulations, standards and guidelines:
  - 1. OSHA Bloodborne Pathogens Standard as it applies to, but not limited to:
    - a. engineering and work practice controls.
    - b. needle and sharps safety.
    - c. sharps exposure and post-exposure protocols.
    - d. record keeping and training.
  - 2. OSHA Hazard Communication Standard as it applies to, but not limited to:
    - a. chemical exposure/hazard and first aid.
    - b. engineering and work practice controls.
    - c. safety data sheets (SDS).
    - d. secondary containers.
  - 3. CDC guidelines.
  - 4. federal regulations (e.g., EPA, FDA).
- B. Maintain and document programs and policies for infection prevention control and safety, including but not limited to:
  - 1. exposure control plan.
  - 2. infection control breaches.
  - 3. quality assurance (quality improvement).
  - 4. sterilization logs/records.
  - 5. training records.

## Study Resources

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We want to help you prepare for your upcoming exam by sharing the list of *Suggested Study Resources* below that are recommended by DANB Subject Matter Experts and used as references in developing exam content.

Important Points:

1. **Suggested Study Resources:** These are materials that our Subject Matter Experts believe are the most relevant and up to date for your exam preparation. However, this list is not exhaustive, and you may find other helpful materials not included here.
2. **Additional Study Resources:** There are other study resources that our Subject Matter Experts consider beneficial. Some of these are free, while others may require purchase. These resources were not used to create the exam, but they can still support your preparation.
3. **Using Older Editions:** You can use previous editions of the resources listed, if they were published within the last 5 years. This flexibility allows you to access a wide range of study materials.

We hope that these materials will help you feel confident and prepared as you study for your exam. If you have any questions or need further assistance, please contact us at [danb.org](http://danb.org).

## Suggested Study Resources

1. Bird, Doni L., and Debbie S. Robinson. *Essentials of Dental Assisting*. 7th ed., 2023.
2. Bird, Doni L., and Debbie S. Robinson. *Modern Dental Assisting*. 14th ed., 2024.
3. Centers for Disease Control and Prevention, US Department of Health and Human Services.
  - Guidelines for Infection Control in Dental Health-Care Settings—2003 (MMWR, Vol. 52, RR 17).
  - Summary of Infection Prevention Practices in Dental Settings: Basic Expectations for Safe Care, October 2016.
4. Eakle, W.S. and Kimberly G. Bastin. *Dental Materials: Clinical Applications for Dental Assistants and Dental Hygienists*. 4th ed., 2021.
5. Miller, Chris. *Infection Control and Management of Hazardous Materials for the Dental Team*. 7th ed., 2023.
6. Singhal, Vishali, Susan Kantz, and Melissa Damatta. *Dental Assisting: A Comprehensive Approach*, 6th ed., 2022.
7. U.S. Department of Labor, Occupational Safety and Health Administration (OSHA).
  - Bloodborne Pathogens (1910.1030).
  - Hazard Communication (1910.1200).
  - Hazard Communication Standard Pictogram Quickcard.
8. Oregon State Dental Practice Act. Sec. 818, Div. 42.

## Additional Study Resources

1. The DALE Foundation. [dalefoundation.org](http://dalefoundation.org).
  - *DANB ICE Review*
  - *ICE Practice Test*
  - Dental Infection Prevention and Control Certificate Program (includes Understanding CDC's Summary of Infection Prevention Practices in Dental Settings and Dental Infection Prevention and Control eHandbook)
  - Aerosol Management and Indoor Air Safety
  - Sterilization and Sterilization Monitoring
  - Safety Stuff That Matters: Protecting Against Exposure to Blood
2. Association for Dental Safety. [myads.org](http://myads.org).
  - *From Policy to Practice: OSAP's Guide to the CDC Guidelines (2022 Edition)*
  - *OSAP's OSHA & CDC Guidelines: Interact Training System, 7th ed.*
3. U.S. Department of Labor, Occupational Safety and Health Administration (OSHA). [osha.gov](http://osha.gov).
  - *OSHA Quickcard* [osha.gov/Publications/HazComm\\_QuickCard\\_Pictogram.html](http://osha.gov/Publications/HazComm_QuickCard_Pictogram.html)

# Acronyms

The following table lists acronyms that you may find on this exam. When you take the exam, the full list of acronyms will be available to you.

Acronym/Abbreviation	What it stands for
°	degree symbol
°C	degrees Celsius
°F	degrees Fahrenheit
µm	micrometer
AAPD	American Academy of Pediatric Dentistry
ADA	American Dental Association
ADS	Association for Dental Safety Formerly the Organization for Safety, Asepsis and Prevention (OSAP)
AED	automated external defibrillator
BBP	bloodborne pathogens
BI	biologic indicator
b.i.d.	two times a day
C/kg	coulombs per kilogram
CAD/CAM	computer-aided design / computer-aided manufacturing
CBCT	cone beam computed tomography
CCD	charge-coupled device
CDA	Certified Dental Assistant
CDC	Centers for Disease Control and Prevention
CEJ	cementoenamel junction
CFU/mL	colony forming unit / milliliter
CMOS	complementary metal oxide semiconductor
COPD	chronic obstructive pulmonary disease
CPR	cardiopulmonary resuscitation
CT	computed tomography
DEJ	dentinoenamel junction
DO	disto-occlusal
DUWL	dental unit waterline
EPA	Environmental Protection Agency
FDA	Food and Drug Administration
FMS	full mouth series
Gy	gray
H1N1	hemagglutinin type 1 and neuraminidase type 1
HAV	hepatitis A virus
HBIG	hepatitis B immune globulin
HBsAg	hepatitis B surface antigen
HBV	hepatitis B virus
HCS	Hazard Communication Standard
HCV	hepatitis C virus
HDV	hepatitis D virus
HEPA	high-efficiency particulate air



Acronym/Abbreviation	What it stands for
HEV	hepatitis E virus
HIPAA	Health Insurance Portability and Accountability Act
HIV	human immunodeficiency virus
HPV	human papillomavirus
h.s.	at bedtime
HSV	herpes simplex virus
HSV-1	herpes simplex virus - 1 (oral herpes)
HSV-2	herpes simplex virus - 1 (genital herpes)
HVE	high-volume evacuation
ID	identification
IFU	instructions for use
IRM	intermediate restorative material
IV	intravenous
kVp	kilovoltage peak
LED	light-emitting diode
mA	milliamperage
mL	milliliter
mm	millimeter
MMR	measles, mumps and rubella
MOD	mesial, occlusal, distal
MPD	maximum permissible dose
MRI	magnetic resonance imaging
MRSA	methicillin-resistant <i>Staphylococcus aureus</i>
mSv	millisievert
mW/cm <sup>2</sup>	milliwatts per square centimeter
N <sub>2</sub> O	nitrous oxide
NIOSH	National Institute for Occupational Safety and Health
NiTi	nickel-titanium
O <sub>2</sub>	oxygen
OFD	object-film distance
OHCP	oral healthcare personnel
OPIM	other potentially infectious materials
OSHA	Occupational Safety and Health Administration
OTC	over-the-counter
PA	posteroanterior
pH	potential of hydrogen
PID	position indicating device
PPE	personal protective equipment
ppm	parts per million
PSP	phosphor storage plate
PVS	polyvinyl siloxane
q.i.d.	four times a day
rads	radiation absorbed dose
rem	roentgen equivalent man

<b>Acronym/Abbreviation</b>	<b>What it stands for</b>
RPD	removable partial denture
rpm	revolutions per minute
SDS	safety data sheet
SLOB	same lingual, opposite buccal
SLR	single-lens reflex
Sv	sievert
TB	tuberculosis
Tdap	tetanus, diphtheria, and pertussis
t.i.d.	three times a day
TLD	thermoluminescent dosimeter
TMD	temporomandibular disorder
TMJ	temporomandibular joint
UV	ultraviolet
XCP	extension cone paralleling
ZOE	zinc oxide-eugenol