2016 Job Task Outline for Certified Dental Technician Comprehensive Examination
For NBC Examinations beginning January 1, 2017

National Board for Certification in Dental Laboratory Technology

This outline is intended solely for use of candidates interested in seeking certification with the National Board for Certification in Dental Laboratory Technology. NBC reserves the right to amend the information contained in this document. This outline was last revised in June of 2016.

Dental Laboratory Industry Regulations and Scope of Practice *(9 - 11% of written exam questions are from this domain)*
Understanding Good Manufacturing Practices (GMPs), FDA CFR 21 Part 820
Practice under Federal guidelines, OSHA, HIPAA, Customs and Border Protection (CBP) (e.g., labelling and disclosure)
Interpret prescription and access case viability
Practice within the scope of state dental practice act
Anatomy *(16 - 18% of written exam questions are from this domain)*
Identify occlusal requirements (e.g. bilateral posterior contacts, guidance, lingualized)
Differentiate types of occlusion (canine guidance, group function, malocclusion)
Identify tooth morphology
Identify growth and development of dentition
Identify basic anatomic landmarks (e.g. soft tissue and hard tissue)
Identify muscles of mastication and facial expression
Identify facial and cranial skeletal anatomy
Identify tooth coding systems (e.g. Universal, International, and Palmer)
Theory *(5 - 7% of written exam questions are from this domain)*
Define dental terms using appropriate terminology
Identify function and types of dental devices (e.g., appliances, prostheses, restorations)
Maxillary and Mandibular Articulation *(6 - 8% of written exam questions are from this domain)*
Identify uses, types and components of articulators (e.g. non-, semi-, fully-adjustable)
Identify mounting procedures (e.g. face bows, etc.)
Identify bite registrations and/or jaw relation records
Identify the types, processes, physical properties and handling characteristics of dental lab materials *(31 - 33% of written exam questions are from this domain)*
Gypsum products
Waxes
Metals and alloys
Plastics, resins and composites

Separating materials
Fluxes and antifluxes
Alcohols (e.g., denatured and isopropyl)
Acids and neutralizers
Wetting agents
Wax Solvents
Abrasives and polishing agents
Laboratory gases
Investments (e.g. casting, pressing, soldering, refractory)
Impression materials
Ceramics (e.g., core and layering materials)
Weights and measure
Working with Impressions and Models (e.g., Traditional or Digital) *(10 - 12% of written exam questions are from this domain)*
Evaluate and validate impressions
Understand model fabrication
Recognize contraindications for impression techniques and materials
Identify techniques for handling types of impressions
Identify custom tray parameters
Safe Working Practices *(16 - 18% of written exam questions are from this domain)*
Identify equipment maintenance and safety requirements and PPE (verification and validation)
Perform infection control procedures
Use and maintenance of Safety Data Sheet (SDS)
Identify hazardous waste disposal requirements (EPA)
Identification, handling and storage of hazardous materials (OSHA, Pictogram labelling)
Identify emergency preparedness (e.g., eye wash, fire blanket, first aid, fire extinguishers, exit plan)