

NBC

National Board for Certification in  
**Dental Laboratory Technology**



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<b>Perform Preliminary &amp; Diagnostic Work Up</b> <i>(10 - 12% of written exam questions are from this domain)</i>
Manufacture diagnostic cast from preliminary impression or digital file for case design
Evaluate case for various types of restorations
Recognize contraindications for materials/case design
Perform diagnostic wax up (e.g., traditional, digital)
Manufacture custom tray
<b>Manufacture Master Cast (Traditional or Digital)</b> <i>(6 - 8% of written exam questions are from this domain)</i>
Manufacture the master cast
Identify and evaluate preparation designs
Prepare the dies
Articulate casts
<b>Design and Manufacture Patterns (Traditional or Digital)</b> <i>(16 - 18% of written exam questions are from this domain)</i>
Determine method for creating pattern
Identify design parameters for fixed restorations
Manufacture pattern for full contour restoration
Manufacture pattern for post & core
Manufacture pattern for ceramic substructures
Manufacture pattern for bridges
Manufacture pattern for pressed restorations
Manufacture pattern for inlays/onlay
<b>Manufacture Restoration</b> <i>(13 - 15% of written exam questions are from this domain)</i>
Select manufacturing method (e.g., traditional, digital)
Sprue and invest pattern
Burnout invested mold
Cast/Press/Divest the restoration
Digital Manufacturing Techniques
<b>Finish and Polish the Restoration</b> <i>(20 - 22% of written exam questions are from this domain)</i>
Inspect the restoration for defects

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

Remove the sprues
Seat restoration to die(s)
Finish the restoration
Refine contacts, occlusion and excursions
Prepare surface for porcelain
Polish the restoration
Evaluate the restoration for final acceptance
Perform Soldering & Welding <i>(5 - 7% of written exam questions are from this domain)</i>
Apply soldering/welding techniques
Solder/weld bridge components together
Solder/weld connectors
Solder/weld attachments
Perform repairs
Selection and Application of Materials and Equipment for Crown & Bridge <i>(21 - 23% of written exam questions are from this domain)</i>
Identify properties and application of pattern materials
Identify properties and applications of abrasives and polishing agents
Identify safety protocol for the use of flux materials
Identify safety protocol for use and storage of acids
Identify safety protocol for use and storage of laboratory gases
Identify and select restorative materials
Identify components of CAD/CAM systems
Identify properties and application of refractory and investment materials
Identify application of sealers, die hardeners, spacers, and separating mediums
Identify the use of instruments and equipment