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DENTAL LABORATORY INDUSTRY REGULATIONS AND SCOPE OF PRACTICE	
GK 1	Perform shade verification
GK 2	Practice under Federal guidelines, OSHA, FDA CFR 21 Part 820
GK 3	Interpret prescription
GK 4	Assess submissions for case feasibility
GK 5	Practice within the scope of state dental practice act
ANATOMY	
GK 6	Identify occlusal requirements - bilateral posterior contacts, guidance, lingualized
GK 7	Differentiate types of occlusion - canine guidance, group function, malocclusion
GK 8	Identify tooth morphology for permanent dentition
GK 9	Identify growth and development of dentition
GK 10	Identify basic landmarks (soft tissue and hard tissue)
GK 11	Identify muscles of mastication and facial expression
GK 12	Identify facial and cranial skeletal anatomy
GK 13	Identify tooth coding systems (Universal, International, and Palmer)
THEORY	
GK 14	Define dental terms using appropriate terminology according to the "Glossary of Prosthodontic Terms"
GK 15	Identify function and types of dental devices (e.g., appliances, prostheses)
MAXILLARY AND MANDIBULAR ARTICULATION	
GK 16	Identify uses, types and components of articulators (non-, semi-, fully adjustable)
GK 17	Complete mounting procedures (facial bows, etc.)
GK 18	Utilize jaw relations records (i.e., bite registrations)
IDENTIFY THE TYPES, PHYSICAL PROPERTIES AND HANDLING CHARACTERISTICS OF	
GK 19	Gypsum products
GK 20	Waxes
GK 21	Metals and alloys
GK 22	Plastics, resins and composites
GK 23	Separating materials
GK 24	Fluxes and antfluxes

2010 Job Task Outline for Certified Dental Technician Comprehensive Examination

GK 25	Alcohols
GK 26	Acids
GK 27	Wetting agents
GK 28	Wax solvents
GK 29	Abrasives and polishing agents
GK 30	Laboratory gases
GK 31	Investments (casting, soldering, refractory)
GK 32	Impression materials
GK 33	Porcelains
GK 34	Use weights and measures systems for materials
<b>WORKING WITH IMPRESSIONS</b>	
GK 35	Evaluate and validate impression
GK 36	Pouring impressions
GK 37	Recognize contraindications for various impression techniques and materials
GK 38	Identify techniques for handling various types of impressions
GK 39	Manufacture custom trays
<b>HEALTH AND SAFETY</b>	
GK 40	Identify equipment maintenance and safety requirements (verification and validation)
GK 41	Perform infection control procedures
GK 42	Identify and use Personal Protection Equipment (PPE)
GK 43	Use of Manufacturers Safety Data Sheet (MSDS)
GK 44	Identify hazardous waste disposal requirements (EPA)
GK 45	Identification, handling and storage of hazardous materials (OSHA)
GK 46	Identify emergency preparedness (e.g., eye wash, fire blanket, first aid, fire extinguishers)



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PERFORM PRELIMINARY & DIAGNOSTIC WORK UP	
CB 1	Manufacture diagnostic cast from preliminary impression for case design
CB 2	Evaluate case for various types of restorations (e.g., post & core, inlay, onlay)
CB 3	Recognize contraindications for materials/case design
CB 4	Create diagnostic wax up
CB 5	Manufacture custom tray
MANUFACTURE MASTER CAST	
CB 6	Manufacture the master (definitive) cast
CB 7	Identify and evaluate preparation designs
CB 8	Prepare the dies
CB 9	Mount the casts on articulator
DESIGN & MANUFACTURE PATTERNS	
CB 10	Determine method for creating pattern (wax, CAD, printing)
CB 11	Identify design parameters for fixed restorations
CB 12	Manufacture pattern for full contour restoration
CB 13	Manufacture pattern for post & core
CB 14	Manufacture pattern for ceramic substructures
CB 15	Manufacture pattern for multiple unit bridges
CB 16	Manufacture pattern for pressed restorations
CB 17	Manufacture pattern for inlays/onlay
MANUFACTURE CASTING	
CB 18	Select manufacturing method (induction, torch, pressing, milling, reduction)
CB 19	Sprue and invest pattern
CB 20	Burnout invested mold
CB 21	Cast the restoration
CB 22	Divest the restoration
FINISH AND POLISH THE RESTORATION	
CB 23	Inspect the restoration for defects
CB 24	Remove the sprues
CB 25	Seat restoration to die(s)
CB 26	Finish the restoration
CB 27	Refine occlusal contacts and excursions
CB 28	Prepare surface for porcelain
CB 29	Polish the restoration

2010 Job Task Outline for Certified Dental Technician Crown Bridge Examination

CB 30	Evaluate the restoration for final acceptance
<b>PERFORM SOLDERING &amp; WELDING</b>	
CB 31	Application of soldering/welding techniques
CB 32	Solder/weld bridge components together
CB 33	Solder/weld connectors
CB 34	Solder/weld attachments
CB 35	Perform repairs with solder
<b>SELECTION AND APPLICATION OF MATERIALS AND EQUIPMENT FOR CROWN &amp; BRIDGE</b>	
CB 36	Identify properties and application of gypsum products for fixed prosthesis
CB 37	Application of separating mediums for fixed prosthetics
CB 38	Properties and application of pattern materials for fixed prosthetics
CB 39	Applications of abrasives and polishing agents
CB 40	Application of solder and flux materials
CB 41	Identify safety protocol for the use of flux materials
CB 42	Identify safety protocol for the use and storage of acids
CB 43	Identify safety protocol for the use and storage of laboratory gases
CB 44	Identify and select restorative materials
CB 45	Select and operate casting, solder/welding equipment
CB 46	Identify components of computer assisted design/computer assisted machining (CAD/CAM)
CB 47	Identify properties and application of refractory and investment materials for fixed prosthetics
CB 48	Identify application of sealers, die hardeners and spacers
CB 49	Identify the use of instruments and equipment unique to Crown and Bridge



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PERFORM PRELIMINARY & DIAGNOSTIC WORK UP	
CE 1	Manufacture diagnostic cast from preliminary impression for case design
CE 2	Evaluate case for various types of restorations
CE 3	Recognize contraindications for materials/case design
CE 4	Perform diagnostic wax up
CE 5	Manufacture custom tray
MANUFACTURE MASTER CAST	
CE 6	Manufacture the master (definitive) cast
CE 7	Identify and evaluate preparation designs
CE 8	Prepare the dies
CE 9	Mount the casts on articulator
MANUFACTURE SUBSTRUCTURE FOR CERAMICS	
CE 10	Design substructure for Ceramics
CE 11	Identify various manufacturing methods (milling, pressing, casting)
CE 12	Select compatible materials for manufacturing methods
CE 13	Identify techniques for manufacturing methods
CE 14	Evaluate restoration/substructure
PERFORM SOLDERING & WELDING FOR METAL SUBSTRUCTURES	
CE 15	Identify techniques for soldering, pre and post ceramic
CE 16	Identify techniques for welding, pre and post ceramic
CERAMIC APPLICATION & CONTOURING	
CE 17	Select ceramic materials according to prescription
CE 18	Prepare surface for ceramic application
CE 19	Apply opaque/liner
CE 20	Layer ceramic material
CE 21	Contour to final tooth morphology
CE 22	Refine occlusal contacts and excursions
CE 23	Evaluate shade
CE 24	Stain and glaze the restoration
CE 25	Finish and polish the restoration
CE 26	Evaluate the restoration for final acceptance
SELECTION AND APPLICATION OF MATERIALS AND EQUIPMENT FOR CERAMICS	
CE 27	Identify properties and application of gypsum products for fixed prosthesis

2010 Job Task Outline for Certified Dental Technician Ceramics Examination

CE 28	Application of separating mediums for fixed prosthetics
CE 29	Properties and application of pattern materials for fixed prosthetics
CE 30	Applications of abrasives and polishing agents
CE 31	Instruments and equipment unique to ceramics
CE 32	Application of solder and flux materials
CE 33	Identify safety protocol for the use of flux materials
CE 34	Identify safety protocol for use and storage of acids
CE 35	Identify safety protocol for use and storage of laboratory gases
CE 36	Identify and select restorative materials
CE 37	Select and operate casting, solder/welding equipment
CE 38	Identify components of computer assisted manufacturing systems
CE 39	Identify properties and application of refractory and investment materials for fixed prosthetics
CE 40	Identify properties and application of ceramic materials
CE 41	Identify application of sealers, die hardeners and spacers



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CREATE MASTER CASTS FROM STOCK AND/OR CUSTOM TRAY IMPRESSIONS	
CD 1	Recognize contraindications for materials/case design
CD 2	Bead, box and pour casts
CD 3	Identify anatomical landmarks
CD 4	Trim and index casts
CD 5	Identify the requirements for a posterior palatal seal
DESIGN AND MANUFACTURE RECORD BASEPLATE & OCCLUSAL RIM	
CD 6	Identify the requirements for the manufacture of the base plate
CD 7	Identify the requirements for the manufacture of the occlusal rim
SELECT AND ARRANGE ARTIFICIAL TEETH	
CD 8	Articulate casts
CD 9	Select anterior and posterior denture teeth.
CD 10	Set-up and Arrangement of anterior and posterior denture teeth.
CD 11	Create anatomical wax contours of the denture base
PROCESS THE DENTURE	
CD 12	Invest the waxed denture
CD 13	Prepare the mold (boilout)
CD 14	Process the acrylic
FINISH & POLISH COMPLETE DENTURE	
CD 15	Finish and polish complete denture
CD 16	Divest the denture
CD 17	Remount and equilibrate
CD 18	Construct a remount cast and index
CD 19	Finish the denture
CD 20	Polish the denture
PROCEDURES FOR REPAIRS AND ALTERATIONS FOR COMPLETE DENTURES	
CD 21	Process for rebasing a denture
CD 22	Process for relining a denture
CD 23	Process for repairing a denture
CD 24	Process for duplicating a denture
CD 25	Process for manufacturing an immediate denture
SELECTION AND APPLICATION OF MATERIALS AND EQUIPMENT FOR REMOVABLE	

2010 Job Task Outline for Certified Dental Technician Complete Dentures Examination

CD 26	Identify properties and application of gypsum products for removable prosthetics
CD 27	Application of separating mediums for removable prosthetics
CD 28	Properties and application of waxes for removable prosthetics
CD 29	Properties and application of resins for removable prosthetics
CD 30	Applications of abrasives and polishing agents
CD 31	Safety protocol for use and storage of monomers and polymers
CD 32	Identify the use of instruments and equipment unique to complete dentures



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CREATE MASTER CASTS FROM STOCK AND/OR CUSTOM TRAY IMPRESSIONS	
PD 1	Bead, box and pour casts
PD 2	Identify anatomical landmarks
PD 3	Trim and index casts
PD 4	Articulate casts
SURVEY, DESIGN AND PREPARATION OF FRAMEWORK FOR PARTIAL DENTURE	
PD 5	Recognize contraindications for materials/case design
PD 6	Identify major connectors (types and functions)
PD 7	Identify minor connectors (types and functions)
PD 8	Identify direct retainers (types and functions)
PD 9	Identify indirect retainers
PD 10	Determine location of rests
PD 11	Determine types denture base retention
PD 12	Identify types of attachments
PD 13	Identify stress relievers and application
PD 14	Techniques of surveying (path of insertion)
PD 15	Clasp selection
PD 16	Application of blockout and relief
PD 17	Identification and selection of major and minor connectors
PD 18	Bead line applications
PD 19	Relief for acrylic retention
PD 20	Classification of frameworks
MANUFACTURE REFRACTORY CAST	
PD 21	Duplication of master cast
PD 22	Preparation for transfer design
MANUFACTURE PARTIAL DENTURES	
PD 23	Application of patterns
PD 24	Requirements for spruing
PD 25	Invest the wax pattern
PD 26	Eliminate the wax
PD 27	Identify casting techniques
PD 28	Divest casting
PD 29	Finish and polish metal framework
SELECT AND ARRANGE ARTIFICIAL TEETH	

2010 Job Task Outline for Certified Dental Technician Partial Dentures Examination

PD 30	Select anterior and posterior denture teeth
PD 31	Set-up and arrange anterior and posterior denture teeth
PD 32	Create anatomical wax contours of the denture base
PD 33	Processing equipment, materials & techniques
PD 34	Remount & corrections
PD 35	Removing cast from removable Partial Dentures
<b>FINISH AND POLISH PARTIAL DENTURE BASE</b>	
PD 36	Identify equipment
PD 37	Identify techniques and procedures
PD 38	Divest the partial denture
PD 39	Remount and equilibrate
PD 40	Finish the partial denture base
PD 41	Polish the partial denture base
<b>PROCEDURES FOR REPAIRS AND ALTERATIONS FOR PARTIAL DENTURES</b>	
PD 42	Techniques for soldering
PD 43	Techniques for welding
PD 44	Finishing & polishing after soldering or welding
PD 45	Process for repairs and additions
PD 46	Process for altered (split) cast technique
PD 47	Reline a partial denture
PD 48	Rebase a partial denture
PD 49	Process for immediate partial denture
<b>SELECTION AND APPLICATION OF MATERIALS AND EQUIPMENT FOR REMOVABLE</b>	
PD 50	Properties and application of gypsum products for removable prosthetics
PD 51	Properties and application of refractory and investment materials for removable prosthetics
PD 52	Application of separating mediums for removable prosthetics
PD 53	Properties and application of waxes for removable prosthetics
PD 54	Properties and application of resins for removable prosthetics
PD 55	Properties and application of alloys used in removable prosthetics
PD 56	Application of abrasives and polishing agents
PD 57	Application of solder and flux materials
PD 58	Safety protocol for the use of flux materials
PD 59	Safety protocol for use and storage of acids
PD 60	Safety protocol for use and storage of monomers and polymers
PD 61	Identify use of instruments and equipment unique to Partial Dentures



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GROWTH AND DEVELOPMENT	
OR 1	Identify deciduous and permanent dentition
OR 2	Identify the order of tooth eruption
OR 3	Identify classes of occlusion (class I,II and III)
OR 4	Identify the types of malocclusion
OR 5	Identify the types of tooth movement
ORTHODONTIC TREATMENT AND APPLIANCES	
OR 6	Differentiate between dental and skeletal treatment
OR 7	Categorize types of appliances (passive, active, functional)
OR 8	Recognize contraindications for materials/case design
OR 9	Recommend orthodontic appliance design
OR 10	Reset teeth in the cast for proper alignment
OR 11	Identify and manufacture splints
OR 12	Identify and manufacture study casts
WIRE COMPONENTS AND AUXILIARIES	
OR 13	Identify principles of bending wire
OR 14	Identify and manufacture types of clasps
OR 15	Identify functions and uses of clasps
OR 16	Identify and manufacture springs
OR 17	Identify and place screws
OR 18	Identify and use coil spring (open & closed)
OR 19	Identify and manufacture labial bows
OR 20	Identify and use components (bands, crowns, etc.)
OR 21	Embed components in acrylics
OR 22	Identify wire bending tools
ACRYLICS, COMPOSITES, PLASTICS AND EQUIPMENT	
OR 23	Utilize vacuum/pressure formed materials
OR 24	Apply acrylic using the sprinkle technique
OR 25	Apply acrylic using the dough pack technique (cold cured)
OR 26	Identify and utilize light cured materials
OR 27	Identify and utilize heat cured materials
OR 28	Finish and polish appliances
OR 29	Perform acrylic repair

SOLDERING, WELDING AND EQUIPMENT	
OR 30	Identify components of the soldering process (e.g., flux, solder, anti-flux)
OR 31	Solder an appliance
OR 32	Describe the process of welding
OR 33	Weld an appliance
OR 34	Finishing and polishing of weld/solder work
OR 35	Perform metal repair
SELECTION AND APPLICATION OF MATERIALS AND EQUIPMENT FOR ORTHODONTICS	
OR 36	Identify and utilize finishing instruments and equipment
OR 37	Identify and utilize pressure forming equipment
OR 38	Identify and utilize solder and welding equipment
OR 39	Identify properties and application of gypsum products for removable prosthetics
OR 40	Application of separating mediums for removable prosthetics
OR 41	Properties and application of waxes for removable prosthetics
OR 42	Properties and application of resins for removable prosthetics
OR 43	Applications of abrasives and polishing agents
OR 44	Safety protocol for use and storage of monomers and polymers
OR 45	Identify the use of instruments and equipment unique to Orthodontics



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PRELIMINARY WORK	
IM 1	Differentiate between implant technologies
IM 2	Categorize and recommend case design options
IM 3	Recognize contraindications for materials/case design
IM 4	Plan case diagnostics (include set up or diagnostic wax up)
IM 5	Recommend case design
IM 6	Manufacture guide stent (radiographic/surgical)
MANUFACTURE THE MASTER (DEFINITIVE) CAST	
IM 7	Assess impression for acceptance
IM 8	Identify and select implant parts for impression
IM 9	Assemble impression parts
IM 10	Manufacture soft-tissue cast
MANUFACTURE REMOVABLE PROSTHESIS	
IM 11	Construct baseplate
IM 12	Construct occlusal rim
IM 13	Design and construct verification jig
IM 14	Set up denture teeth
MANUFACTURE BAR/SUBSTRUCTURE	
IM 15	Design bar/substructure
IM 16	Wax and cast bar/substructure
IM 17	Scan, design and mill bar/substructure
IM 18	Verify and fit bar/substructure
IM 19	Solder or weld unparallel bar/substructure
IM 20	Finish and polish bar/substructure
IM 21	Set up denture teeth
MANUFACTURE SCREW-RETAINED FIXED REMOVABLE (HYBRID) PROSTHESIS	
IM 22	Identify and select components
IM 23	Survey for parallelism
IM 24	Design and wax framework
IM 25	CAD/CAM and/or manufacture framework
MANUFACTURE CEMENTABLE FIXED PROSTHESIS	
IM 26	Identify and select abutment

2010 Job Task Outline for Certified Dental Technician Implants Examination

IM 27	Modify prefabricated components
IM 28	Design and wax custom abutment
IM 29	Survey for parallelism
IM 30	CAD/CAM and/or manufacture abutments
IM 31	Design and manufacture coping/substructure
<b>SELECTION AND APPLICATION OF MATERIALS AND EQUIPMENT FOR IMPLANT</b>	
IM 32	Identify and select materials (titanium, zirconia, other alloys, no chrome)
IM 33	Select and operate casting, solder/welding equipment
IM 34	Identify properties and application of gypsum products for fixed prosthesis
IM 35	Application of separating mediums for fixed prosthetics
IM 36	Properties and application of pattern materials for fixed prosthetics
IM 37	Applications of abrasives and polishing agents
IM 38	Identify the use of instruments and equipment unique to Implants
IM 39	Application of solder and flux materials
IM 40	Identify safety protocol for the use of flux materials
IM 41	Identify safety protocol for use and storage of acids
IM 42	Identify safety protocol for use and storage of laboratory gases
IM 43	Identify and select restorative materials
IM 44	Identify components of computer assisted manufacturing systems
IM 45	Identify properties and application of refractory and investment materials for fixed prosthetics
IM 46	Identify properties and application of ceramic materials
IM 47	Identify application of sealers, die hardeners and spacers