



INTERNATIONAL CREDENTIAL EVALUATION SERVICE

3700 Willingdon Avenue, Burnaby, British Columbia, Canada V5G 3H2
Tel: 604-432-8800 Toll-free: 1-866-434-9197 Fax: 604-435-7033

College of Dental Technicians of British Columbia Evaluation Requirements

The **College of Dental Technicians of British Columbia (CDTBC)** requires the following for all evaluations completed by the International Credential Evaluation Service (ICES).

1. Evaluation Report Required

- a) The **CDTBC** requires a **Comprehensive Evaluation Report** for all evaluations conducted by ICES. This can be ordered by completing the Credential Order Form section of the ICES Application Form. The cost of a Comprehensive Report is **\$225.00** per credential. Detailed information about ICES fees, reports, and documents required as well as a copy of the ICES Application Package can be found at <http://www.bcit.ca/ices>.
- b) The **CDTBC Supplemental Report (\$125.00)** is required in addition to the Comprehensive Report. This is ordered by completing **Section C** of the ICES Application Form. In **Section C** please write "CDTBC".

2. Documents Required by ICES

- a) **Official Documents:** The **College of Dental Technicians of BC** requires that ICES base its evaluation report on *Official* documents for each credential that you are paying to be evaluated. For documents to be considered official, they **must be sent directly to ICES by the educational institutions** you attended. The official documents must indicate the name of the credential, the courses or subjects studied, the grades earned, the hours of study or number of credits for each course, and the date of graduation. These documents may be called an academic record, transcript, detailed marks card, relevé de notes, examination report, extract, student's book, index, or other names, depending on the country from which it is issued. If required, we may ask for the original copies of your educational documents after your official documents arrive at our office.

If it is not possible to have an official copy of your academic record sent to ICES, you may submit original documents instead; however, you will also need to request an official letter sent by the institutions you attended to confirm the credentials you have completed. These official degree confirmation letters must be sent directly to ICES and signed by the Registrar (or similar authority) of the institutions you attended.

ICES understands that it can be difficult and costly for some clients to arrange for official documents to be sent to our office. Official documents are required if you are planning to use your report for the **College of Dental Technicians of BC**. ICES cannot waive this requirement.

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- b) **Program Confirmation Form:** The attached Program Confirmation Form must be sent to the educational institution(s) you attended. The form must be completed and returned *directly to ICES by the educational institutions* along with an official transcript of your marks. International students who are unable to get official documents re-issued by your institution may submit original documents that are in your possession instead.
- c) **Translations:** All required documents written in a language other than French or English must be accompanied by an English translation completed by a certified translator. All translated documents must also be submitted with the original in the original language.

Affiliated Colleges: ICES only accepts educational documents from the institution that awards the credential. For that reason, ICES does not accept documents from affiliated colleges or institutes. ICES must see documents issued from the awarding institution.

3. Number of Credentials

When you apply for a Comprehensive Report, you must indicate the number of credentials you wish to have evaluated. A “credential” is one partially or fully completed educational program taken at one institution or school leading to a certificate, diploma or degree. Any coursework completed at two or more institutions and applied (or transferred) toward a credential is considered a separate credential. If you wish to have more than one credential evaluated, please include the additional fee with your ICES Application Form and make arrangements to have each institution send the necessary official documents directly to ICES.

4. Additional Copy of Report

All Clients receive two copies of the completed report. The first copy is always sent to you; the second copy of your report will be sent directly to the **CDTBC**. Please indicate this in **Section D** of the ICES Application Form. If you do not indicate where you want your second copy sent, it will be automatically sent to you. If you require more than two copies of your report, the fee is **\$10.00** per copy.

5. Contact Information

If you have not already done so, please contact the **College of Dental Technicians of British Columbia (CDTBC)** to see if they require any additional information from you. They can be reached at:

College of Dental Technicians of British Columbia (CDTBC)
400 - 1727 West Broadway
Vancouver, British Columbia
V6J 4W6
Telephone: 604-734-4776



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College of Dental Technicians of British Columbia Program Confirmation Form

Note to Applicant: Please send this form to your educational institution, with a covering letter which includes the following: a) your current full name, maiden name, and other names used b) your student number c) your date of graduation d) your full address and telephone number

To: Registrar or Director of Educational Programs:

_____ has applied to the **College of Dental Technicians of British Columbia (CDTBC)**. In order for the International Credential Evaluation Service (ICES) to determine how his/her educational program meets the competency requirements of the CDTBC, we require the completion of this form, as well as an official transcript of his/her education. Your assistance in this matter will greatly assist in the processing of this application. Thank you.

To be completed by the **Registrar or Director of Educational Programs**, and returned (with an official transcript) *directly to ICES by the educational institutions* you attended.

This certifies that _____ was admitted to

(School) (City) (Province/State/Country)

in _____. The length of the program was _____ months/years.
(Month/Year)

He/she successfully completed the _____
(Name of program)

program on _____ and was issued a _____
(Month/Year) (Name of credential eg. **Bachelor of Science**)

OR

client has not successfully completed the program, but has completed _____ months/years of the program.

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– Please Complete & Sign Last Page –

REQUIRED COMPETENCIES

Please check off each of the competencies that the student has successfully completed in the course of their program of study.

Part 1: The design, fabrication, modification and repair of complete dentures.

1. The dental technician must be competent in the design, fabrication, modification and repair of complete dentures. Competence must be demonstrated in:

-describing reasons for provision of immediate dentures and their limitation;
-describing how complete dentures are designed and constructed for different jaw relationships;
-describing principles and methods of providing resilient liners in new and existing complete dentures;
-constructing base plates and occlusion rims;
-fabricating complete dentures including set-up and processing of dentures using artificial anatomical teeth in fully balanced occlusion;
-repairing, relining, and rebasing dentures.

Part 2: The design, fabrication, modification and repair of partial dentures.

2. The dental technician must be competent in the design, fabrication, modification and repair of partial dentures. Competence must be demonstrated in:

-describing reasons for provision of partial dentures, contra-indications and limitations;
-identifying the components of a removable partial denture, including various clasp designs;
-describing and applying the principles of partial denture design and construction, including surveying, designing and block out procedures;
-describing and applying principles of design and function of wrought wire clasps as they relate to acrylic and cast partial dentures;
-constructing mucosa borne, tooth borne and tooth/mucosa borne partial dentures in metal and/or acrylic according to prescription, using various techniques, including:
 -evaluating the fit of the framework;
 -arranging teeth on frameworks;
 -waxing-up, processing and finishing removable partial dentures;
 -utilizing standard repair procedures including soldering and welding techniques.

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Part 3: The design, fabrication, modification and repair of inlays, onlays, posts and cores, crowns and bridges, and dental ceramics.

3.1 The dental technician must be competent in the design and fabrication of fixed prostheses, including inlays, onlays, posts and cores, crowns and bridges. Competence must be demonstrated in:

-describing how teeth are prepared in order to accept restorations including identifying various margin designs and recognizing adequate margin preparation;
-describing the indications for, and principles of fabricating different types of inlays, onlays, posts and cores, crowns and bridges;
-describing how the design of the occlusal surface of fixed restorations is related to functional occlusal forces;
-constructing all types of all metal inlays, onlays, posts and cores, crowns and bridges;
-constructing metal copings and bridge frameworks for metal-ceramic restorations;
-constructing temporary and provisional crowns and bridges;
-adapting techniques and materials used in making metal castings to the needs of restorations, including spruing, investing, burnout, casting and soldering procedures.

3.2 The dental technician must be competent in the design, fabrication, modification and repair of all ceramic and porcelain-to-metal prostheses. Competence must be demonstrated in:

-describing the technique of constructing all ceramic and metal-ceramic restorations;
-constructing all ceramic (metal-free) restorations;
-constructing porcelain fused-to-metal restorations;
-adapting techniques and materials used in making metal castings to the needs of dental ceramic restoration, including:
 -developing wax patterns;
 -preparing the framework to receive porcelain;
 -applying the appropriate ceramic materials;
 -contouring, characterization, finishing and polishing porcelain restorations.

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Part 4: The design, fabrication, modification and repair of appliances used in orthodontics, oral and maxillo-facial surgery and other dental specialties.

4. The dental technician must be competent in the design, fabrication, modification and repair of appliances used in orthodontics, oral and maxillo-facial surgery and other dental specialties. Competence must be demonstrated in:

-describing basic causes of malocclusion and classifications used in treatment;
-describing records required for orthodontic treatment;
-describing how extra-oral forces may be applied in treatment;
-identifying and describing various fixed and removable orthodontic appliances including surgical splints, temporo-mandibular joint (TMJ) and bruxism appliances;
-identifying and describing functional appliances and their method of action;
-constructing fixed and removable appliances, including arch wires, clasps and springs, appliances for the treatment of temporo-mandibular joint disorders and surgical splints;
-adapting techniques and materials to the preparation of special appliances, including:
 -preparing and evaluating orthognathic study casts;
 -fabricating, finishing and polishing auto-polymerizing resin appliances;
 -acrylic repairs and soldering.

Part 5: General laboratory procedures, principles of physics and general science associated with the fabrication of dental prostheses.

5. The dental technician must be competent in general laboratory techniques and principles of physics and general science associated with the fabrication of dental prostheses. Competence must be demonstrated in:

-evaluating various types of preliminary and final impressions;
-demonstrating ability to interpret verbal and written instructions pertaining to the fabrication of dental appliances and restorations;
-preparing and evaluating various types of casts including casts with removable dies;
-fabricating custom impression trays and performing acrylic repairs;

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- articulating casts, including selecting and utilizing various types of articulators;
-developing functional occlusion on articulated casts;
-describing and applying with the appropriate measuring apparatus, units of measurement of length, mass, volume, temperature and pressure;
-describing mechanical principles, basic concepts of force, stress and strain, and relating these to fabrication and physical testing of materials and appliances;
-describing the nature and importance of heat as it relates to dental materials and appliances including exothermic reactions;
-describing and applying basic elements of electricity and their relationship to motors, furnaces and other laboratory equipment;
-describing the nature and importance of chemical elements as they relate to dental materials and appliances, such as atomic structure, valency, formation of compounds, chemical reactions, electrochemistry, flame chemistry, catalysts and polymers;
-describing the nature and importance of light as it relates to dental materials and appliances, such as wave length (visible, infra red and ultraviolet) generation, conduction, refraction, reflection, colour, illumination, magnification, and X-rays.

Part 6: Characteristics and properties of dental materials associated with the fabrication of dental prosthetic devices and appliances.

6. The dental technician must be competent in describing properties and characteristics of dental materials associated with the fabrication of dental prosthetic devices and appliances and be able to work effectively and safely with these materials. Competence must be demonstrated in:

-describing the classification of dental materials according to their structure and physical properties;
-describing the clinical application of major materials and related economic considerations affecting choice of materials and techniques;
-choosing and utilizing dental materials best suited to particular types of application by taking into account characteristics and properties, including mechanical properties, constitution of alloys, grain size and structure, stress and strain, cold working, hot working, casting, cooling, electrochemical, tarnishing and corroding dimensions;
-describing the effects of different types of manipulation on dental materials;
-describing properties of and utilizing impression materials, including gypsum, impression compounds, rubber-based and silicone material, zinc oxide and eugenol pastes;
-describing properties of and utilizing cast and die materials, denture base materials, resilient materials, investing materials and waxes, including synthetic resins, restorative resins, dental waxes, base plate materials, hydrocolloids, elastomers and refractory materials;

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-describing properties of, manipulating and utilizing porcelain, wrought metals and wires, dental and gold alloys including dental porcelain, bonded materials/structures, dental gold alloys, fusible alloys, chrome-cobalt alloys, silver alloys, stainless steel, platinum-palladium and composite materials;
-describing properties of and utilizing solders, welding, fluxes and cements, electro-deposition, electro-polishing and chemical etching materials, dental cements, lubricants, abrasives and polishing materials;
-describing properties of and utilizing implant materials.

Part 7: Characteristics and operation of equipment and instrumentation associated with the fabrication of dental prostheses.

7. The dental technician must be competent in describing characteristics of and in operating special equipment and instrumentation associated with the fabrication of dental prostheses. Competence must be demonstrated in:

-describing the principles of operation of the major types of equipment appropriate to the procedures performed in dental technology. Such equipment includes electrical equipment, melting equipment, air operated equipment, vacuum equipment, hand operated equipment, cutting instruments and equipment, articulators and parallelometers;
-selecting and utilizing equipment, appropriate to the procedures specified, safely and efficiently;
-recognizing equipment breakdown or faults of operation and taking corrective action;
-using and maintaining hand tools to ensure safety and efficiency.

Part 8: Basic elements of head and neck anatomy, dental anatomy, dental physiology, tooth morphology and pathological conditions relevant to dental technology.

8.1 The dental technician must be competent in describing basic elements of head and neck anatomy, dental anatomy, dental physiology and tooth morphology. Competence must be demonstrated in:

-describing the skeletal anatomy and physiology of the head and neck and associated musculature relevant to dental technology;
-describing the basic physiology of mandibular movement, the structure and function of the temporo-mandibular movement, the structure and function of the temporo-mandibular joint and related diseases/dysfunctions and their treatment;
-describing the structure, function, notation, relations and growth patterns of teeth and reproducing their morphology in wax;
-describing factors which affect the development and permanence of teeth, abnormalities of growth and malocclusion and the structure, functions and importance of bone, tooth, cartilage and muscle tissue in relation to dental technology;

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-describing the process of ageing and senescence in relation to oral tissues;

-describing the processes of adaptation and habituation, the endodontically treated tooth, tooth loss and socket healing;
-demonstrating awareness of the range of physiological responses to prosthetic procedures.

8.2 The dental technician must be competent in demonstrating awareness of common pathological conditions relevant to dental technology. Competency must be demonstrated in:

-demonstrating awareness that disorders and diseases affecting the oral cavity have a variety of causes;
-demonstrating awareness of the essential difference between benign and malignant conditions;
-demonstrating awareness of the role in oral health of candidiasis, denture sore mouth and xerostomia.

Part 9: Basic laboratory hygiene, laboratory safety, toxicology, infection control and first aid.

9. The dental technician must be competent in describing and applying basic elements of laboratory hygiene, laboratory safety, toxicology, infection control and first aid. Competence must be demonstrated in:

-describing potential hazards in the laboratory, including flame and heat, rotary equipment, particulate matter, corrosives, vapours and gases, solutions, electrical hazards;
-demonstrating awareness of regulations, protocols and sources of information dealing with hazardous materials, safety precautions and infection control;
-describing basic procedures for control of dangerous materials;

-describing basic procedures for sterilization, disinfection and prevention of contamination;
-describing the basic role of oral micro-organisms in health and disease;

-demonstrating a basic understanding of the common oral diseases and dysfunctions;

-demonstrating a basic understanding of the effects of dental materials and appliances on oral tissues;
-describing principles of infection, cross infection and general hygiene and their relevance to dental technology;
-demonstrating basic ability in simple first aid procedures.

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– Please Complete & Sign This Page –

Signature of Registrar or Director

Date

Name of Registrar or Director (Print)

This information is gathered for the purpose of determining educational equivalency for application for registration as a Registered Dental Technician with the College of Dental Technicians of British Columbia.