Sample Learning Resources

Resource Inventory for Self-Study

This resource inventory contains a variety of learning resources that may support your competency gap-filling activities. Resources include textbooks, online courses, webinars, professional guidelines, open educational resources, instructional videos, and other self-directed learning materials. Some resources focus on foundational knowledge and professional practice, while others support the development of discipline-specific knowledge and technical skills.

The resources have been organized according to the CADTR competency framework to help you identify learning opportunities that align with your specific competency gaps. The inventory is intended as a starting point for learning and professional development and is not exhaustive. You are encouraged to explore additional resources that are relevant to your learning needs, practice goals, and preferred learning style.

Wherever possible, links are provided to resources that are freely available online. For textbooks and other published materials, search the title online or through a public, academic, or institutional library catalogue. You may be able to obtain these resources by purchasing them from the publisher or an online bookseller, borrowing them through a public library, or accessing them through the library of an institution that offers a CADTR-approved dental technology program.

You do not need to use all the resources listed in this document. Feel free to identify other resources that support your learning and professional development. When selecting resources, choose materials from reputable educational institutions, professional organizations, regulatory authorities, publishers, or other trusted sources.

Searching This Document

The resources in this guide have been organized by competency to help you identify learning opportunities that align with your learning needs and goals. To search for resources related to a specific competency:

- Open the PDF and use the search function (Ctrl + F on Windows or Command + F on Mac).
- Enter the competency domain name (Foundational Knowledge and Skill, Safe and Professional Practice, or Specialized Technical Expertise), or a keyword from the competency statement.
- Review the suggested resources and select those that best support your learning needs, goals, and circumstances.
- Record the resources you plan to use in your Individualized Learning Plan (ILP), if applicable.

Remember that successful gap-filling often involves using a combination of learning approaches, such as reading, online learning, workplace-based learning, mentorship, supervised practice, and self-reflection. Choose the resources and learning activities that best support your learning goals and help you demonstrate the competencies identified in your Credential Report.

Sample Learning Resources

Resources for PLAR Applicants

The following sample resources are organized according to the three domains used in the Prior Learning Assessment and Recognition (PLAR) process. These resources are intended to support your learning and professional development and may help you address competency gaps identified through self-assessment, workplace experience, or the PLAR process.

A. Foundational Knowledge and Skill

These resources may help you strengthen foundational knowledge in anatomy, oral structures, materials science, prosthodontics, orthodontics, and related areas of dental technology.

Resource	Description	Access	Access Information
Anatomy of Orofacial Structures	Comprehensive reference covering oral anatomy, head and neck structures, and dental anatomy.	Library / Purchase	Search title online or through a library catalogue.
Illustrated Anatomy of the Head and Neck	Illustrated anatomy textbook covering head and neck structures relevant to dental technology.	Library / Purchase	Search title online or through a library catalogue.
Illustrated Dental Embryology, Histology, and Anatomy	Foundational resource covering oral development, histology, and anatomy.	Library / Purchase	Search title online or through a library catalogue.
Dental Laboratory Technology: Basic Sciences,	Open educational resource covering foundational	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v1.pdf

Resource	Description	Access	Access Information
Removable Prosthodontics, and Orthodontics (Vol. 1)	concepts in dental laboratory technology.		
Complete Denture Fabrication	Practical guide to complete denture fabrication techniques.	Library / Purchase	Search title online or through a library catalogue.
Orthodontic Laboratory Techniques	Comprehensive reference on orthodontic appliance design and fabrication.	Library / Purchase	Search title online or through a library catalogue.
Materials for Oral Health (Coursera)	Online course introducing oral biomaterials and restorative materials.	Free / Paid	https://www.coursera.org/learn/materials-oral-health
Oral Anatomy and Physiology (PTC)	Self-paced online course focused on oral anatomy and physiology.	Fee-Based	https://ptc-dental.com/online.php
Study of Anterior Anatomy (PTC)	Online learning module focused on anterior tooth anatomy.	Fee-Based	https://bluedolphindental.com/saa-techmaster-module/
Study of Posterior Anatomy (PTC)	Online learning module focused on posterior tooth anatomy.	Fee-Based	https://bluedolphindental.com/spa-techmaster-module/

B. Safe and Professional Practice

These resources may help you strengthen knowledge and skills related to infection prevention and control, professional responsibilities, ethics, cultural safety, and safe practice.

Resource	Description	Access	Access Information
Infection Control Course (DentalCare.com)	Online course covering infection prevention and control principles and practices.	Free Online	https://www.dentalcare.com/en-us/ce-courses/ce591
Infection Prevention and Control Guidelines (BCCOHP)	Provincial infection prevention and control guideline for oral health professionals.	Free Online	https://oralhealthbc.ca/wp-content/uploads/2025/05/Infection-Prevention-and-Control-Guidelines.pdf
Infection Prevention and Control Standard (CDTO)	Ontario standard for infection prevention and control in dental technology practice.	Free Online	https://cdto.ca/wp-content/uploads/Infection-Prevention-and-Control-Standard.pdf
Infection Prevention and Control Resource (Alberta Oral Health Regulatory Colleges)	Practical infection prevention and control resource developed by Alberta regulators.	Free Online	https://cdta.ca/sites/default/files/IPC_resource_v3.pdf
Common Definitions on Cultural Safety	Foundational resource introducing cultural	Free Online	https://www.canada.ca/en/health-canada/services/publications/health-system-services/chief-public-health-officer-health-

Resource	Description	Access	Access Information
	safety concepts in healthcare.		professional-forum-common-definitions-cultural-safety.html
Canadian Charter of Rights and Freedoms	Foundational document supporting ethical and rights-based practice.	Free Online	https://www.canada.ca/en/canadian-heritage/services/how-rights-protected/guide-canadian-charter-rights-freedoms.html
Dental Academy of Continuing Education	Continuing education webinars covering ethics, communication, professionalism, and leadership.	Free / Paid	https://dentalacademyofce.com
Glidewell Online Study Club	Recorded and live webinars on professional practice and clinical topics.	Free Online	https://glidewelldental.com/education/online-study-club

C. Specialized Technical Expertise

These resources may help you strengthen technical knowledge and skills related to the design, fabrication, repair, and quality assurance of dental prostheses and appliances.

Resource	Description	Access	Access Information
Glossary of Digital Dental Terms	Comprehensive glossary of terminology related to digital dentistry and dental technology. Developed by the American College of Prosthodontists (ACP).	Free Online	https://doi.org/10.1111/jopr.13439
McCracken's Removable Partial Prosthodontics	Comprehensive reference on removable partial denture design and fabrication.	Library / Purchase	Search title online or through a library catalogue.
Contemporary Fixed Prosthodontics	Comprehensive resource covering fixed prosthodontic design and fabrication.	Library / Purchase	Search title online or through a library catalogue.
Textbook of Complete Dentures	Reference text on complete denture treatment and fabrication.	Library / Purchase	Search title online or through a library catalogue.

Resource	Description	Access	Access Information
Introducing Dental Implants	Introductory resource on dental implant concepts and applications.	Library / Purchase	Search title online or through a library catalogue.
Craig's Restorative Dental Materials	Comprehensive resource on restorative and laboratory materials.	Library / Purchase	Search title online or through a library catalogue.
Dental Laboratory Technology: Fixed and Special Prosthodontics (Vol. 2)	Open educational resource covering advanced fixed and special prosthodontic procedures.	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v2.pdf
Advanced Topics in Removable Prosthodontics (OpenMichigan)	Open-access learning modules covering advanced removable prosthodontic concepts.	Free Online	https://open.umich.edu/find/open-educational-resources/dentistry/advanced-topics-removable-prosthodontics
Great Lakes Orthodontics Course Catalogue	Online orthodontic technology courses and technical training.	Free / Paid	https://learn.greatlakesdentaltech.com/course-list/
Contouring Basic Waxups (PTC)	Technical training module on anatomical wax-up techniques.	Fee-Based	https://bluedolphindental.com/cbw-techmaster-module/

Resource	Description	Access	Access Information
Contouring Anterior Bridges (PTC)	Technical training module focused on anterior bridge contouring.	Fee-Based	https://bluedolphindental.com/cab-techmaster-module/
Complete Natural Dentures (PTC)	Technical training module focused on complete denture fabrication.	Fee-Based	https://bluedolphindental.com/cnd-techmaster-module/
Framework Design and Fabrication (PTC)	Technical training module focused on removable partial denture framework design.	Fee-Based	https://bluedolphindental.com/fdf-techmaster-module/
Digital Denture Workflows and Materials (Dentsply Sirona)	Online module introducing digital denture workflows and materials.	Free Online	https://www.dentsplysirona.com/en-ca/academy/courses/academy-course-details.html/content/dam/master/content-fragments/ca/en/courses-events/on-demand/2022/find-your-workflow-digital-denture-workflows-and-materials
Al McOrmond Dental Technology Videos	Instructional videos demonstrating dental	Free Online	https://www.youtube.com/@almcormond7895

Resource	Description	Access	Access Information
	technology procedures and techniques.		
Retainer Designer (Cade Tippet)	Videos focused on orthodontic appliance fabrication and design.	Free Online	https://www.youtube.com/@RetainerDesigner

DTEE Competency-Aligned Resources

Competency 1.1

Demonstrate knowledge of biology and of head and neck anatomy related to dental technology practice.

Resource	Description	Access	Access Information
Anatomy of Orofacial Structures	Comprehensive anatomy reference covering oral and maxillofacial structures.	Library / Purchase	Search title online or through a library catalogue.
Illustrated Anatomy of the Head and Neck	Illustrated anatomy reference text.	Library / Purchase	Search title online or through a library catalogue.
Dental Laboratory Technology: Basic Sciences, Removable Prosthodontics, and Orthodontics (Vol. 1)	Foundational dental laboratory technology resource.	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v1.pdf
Complete Denture Fabrication	Practical guide to complete denture fabrication.	Library / Purchase	Search title online or through a library catalogue.
Science and Practice of Occlusion	Foundational text on occlusion and oral function.	Library / Purchase	Search title online or through a library catalogue.
Woelfel's Dental Anatomy	Comprehensive dental anatomy reference.	Library / Purchase	Search title online or through a library catalogue.

Competency 1.2
Apply knowledge of oral structures, tooth morphology, and oral pathology to dental technology.

Resource	Description	Access	Access Information
Anatomy of Orofacial Structures	Oral anatomy and morphology reference.	Library / Purchase	Search title online or through a library catalogue.
McCracken's Removable Partial Prosthodontics	Removable prosthodontics reference text.	Library / Purchase	Search title online or through a library catalogue.
Dental Laboratory Technology: Basic Sciences, Removable Prosthodontics, and Orthodontics (Vol. 1)	Foundational dental laboratory technology resource.	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v1.pdf
Illustrated Dental Embryology, Histology, and Anatomy	Oral development and anatomy resource.	Library / Purchase	Search title online or through a library catalogue.
Orthodontic Laboratory Techniques	Orthodontic appliance design and fabrication.	Library / Purchase	Search title online or through a library catalogue.
Textbook of Complete Dentures	Complete denture design and fabrication reference.	Library / Purchase	Search title online or through a library catalogue.
Woelfel's Dental Anatomy	Comprehensive dental anatomy reference.	Library / Purchase	Search title online or through a library catalogue.
Basic Technique for Metal Ceramics	Technical resource for ceramic restorations.	Library / Purchase	Search title online or through a library catalogue.

Competency 1.3
Apply basic principles of physics and chemistry to the practice of dental technology.

Resource	Description	Access	Access Information
Dental Laboratory Technology: Fixed and Special Prosthodontics (Vol. 2)	Resource covering fixed prosthodontic materials and procedures.	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v2.pdf
Materials for Oral Health (Coursera)	Introduction to biomaterials and material science.	Free/Paid	https://www.coursera.org/learn/materials-oral-health
Dental Materials: Foundations and Applications	Comprehensive dental materials textbook.	Library / Purchase	Search title online or through a library catalogue.

Competency 1.4
Apply foundational knowledge of materials commonly used in Canadian dental technology practice.

Resource	Description	Access	Access Information
Dental Laboratory Technology: Basic Sciences, Removable Prosthodontics, and Orthodontics (Vol. 1)	Foundational resource on materials and techniques.	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v1.pdf
Contemporary Fixed Prosthodontics	Fixed prosthodontic materials and applications.	Library / Purchase	Search title online or through a library catalogue.
Precision Fixed Prosthodontics: Clinical and Laboratory Aspects	Fixed prosthodontic laboratory procedures.	Library / Purchase	Search title online or through a library catalogue.

Resource	Description	Access	Access Information
Complete Denture Fabrication	Denture materials and fabrication techniques.	Library / Purchase	Search title online or through a library catalogue.
Introduction to Metal-Ceramic Technology	Comprehensive resource on metal-ceramic restorations.	Library / Purchase	Search title online or through a library catalogue.
Dental Materials	Foundational dental materials reference.	Library / Purchase	Search title online or through a library catalogue.
Dental Materials: Foundations and Applications	Comprehensive materials science resource.	Library / Purchase	Search title online or through a library catalogue.

Competency 1.5
Apply basic mathematical principles to design and fabricate functional dental prostheses and appliances.

Resource	Description	Access	Access Information
Orthodontics: Current Principles and Techniques	Orthodontic principles and appliance design.	Library / Purchase	Search title online or through a library catalogue.
Principles of Design and Fabrication in Prosthodontics	Prosthodontic design principles.	Library / Purchase	Search title online or through a library catalogue.
Removable Partial Denture Design	Partial denture design reference.	Library / Purchase	Search title online or through a library catalogue.
Bench Top Orthodontics	Orthodontic laboratory techniques.	Library/Used Copies	Search title online or through a library catalogue. Used copies may be available through booksellers.

Complete Denture Fabrication	Practical denture fabrication guide.	Library / Purchase	Search title online or through a library catalogue.
Removable Prosthodontic Techniques	Technical resource on removable prosthodontics.	Library / Purchase	Search title online or through a library catalogue.
Atlas of Removable Partial Denture Design	Visual guide to partial denture design.	Library / Purchase	Search title online or through a library catalogue.

Competency 1.6
Demonstrate awareness of common oral and maxillofacial-related prostheses and appliances.

Resource	Description	Access	Access Information
Anatomy of Orofacial Structures	Foundational anatomy reference.	Library / Purchase	Search title online or through a library catalogue.
Dental Laboratory Technology: Basic Sciences, Removable Prosthodontics, and Orthodontics (Vol. 1)	Foundational dental laboratory technology resource.	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v1.pdf
Removable Partial Denture Design	Resource on prosthetic design and function.	Library / Purchase	Search title online or through a library catalogue.
Bench Top Orthodontics	Orthodontic appliance reference.	Library/Used Copies	Search title online or through a library catalogue. Used copies may be available through booksellers.
Orthodontic Laboratory Techniques	Orthodontic appliance design and fabrication.	Library / Purchase	Search title online or through a library catalogue.

Competency 1.7
Demonstrate knowledge of key design and fabrication principles and technical skills used in dental technology.

Resource	Description	Access	Access Information
McCracken's Removable Partial Prosthodontics	Comprehensive removable prosthodontics reference.	Library / Purchase	Search title online or through a library catalogue.
Kratochvil's Fundamentals of Removable Partial Dentures	Foundational removable partial denture resource.	Library / Purchase	Search title online or through a library catalogue.
Dental Laboratory Technology: Basic Sciences, Removable Prosthodontics, and Orthodontics (Vol. 1)	Foundational dental laboratory technology resource.	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v1.pdf
Foundations of Dental Technology, Volume 1	Foundational dental technology reference.	Library / Purchase	Search title online or through a library catalogue.
Basics of Dental Technology: A Step-by-Step Approach	Comprehensive introductory dental technology resource.	Library / Purchase	Search title online or through a library catalogue.
Introduction to Metal-Ceramic Technology	Technical resource on metal-ceramic restorations.	Library / Purchase	Search title online or through a library catalogue.
Removable Prosthodontic Techniques	Technical guide to removable prosthodontics.	Library / Purchase	Search title online or through a library catalogue.

Competency 2.1
Apply the principles of infection prevention and control relevant to the practice of dental technology.

Resource	Description	Access	Access Information
Infection Control Course (DentalCare.com)	Online course covering infection prevention and control principles and practices.	Free Online	https://www.dentalcare.com/en-us/ce-courses/ce591
Infection Prevention and Control Guidelines (BCCOHP)	Provincial infection prevention and control guideline for oral health professionals.	Free Online	https://oralhealthbc.ca/wp-content/uploads/2025/05/Infection-Prevention-and-Control-Guidelines.pdf
Infection Prevention and Control Standard (CDTO)	Ontario standard for infection prevention and control in dental technology practice.	Free Online	https://cdto.ca/wp-content/uploads/Infection-Prevention-and-Control-Standard.pdf
Infection Prevention and Control Resource (Alberta Oral Health Regulatory Colleges)	Practical infection prevention and control resource developed by Alberta regulators.	Free Online	https://cdta.ca/sites/default/files/IPC_resource_v3.pdf

Competency 3.1

Analyze the healthcare practitioner's prescription and patient's information to plan the design and materials selection for the fabrication of the dental prosthesis and/or appliance.

Resource	Description	Access	Access Information
McCracken's Removable Partial Prosthodontics	Removable prosthodontics design and treatment planning.	Library / Purchase	Search title online or through a library catalogue.
Dental Laboratory Technology: Basic Sciences, Removable Prosthodontics, and Orthodontics (Vol. 1)	Foundational dental laboratory technology resource.	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v1.pdf
Basics of Dental Technology: A Step-by-Step Approach	Foundational dental technology resource.	Library / Purchase	Search title online or through a library catalogue.
Complete Denture Fabrication	Denture design and fabrication guide.	Library / Purchase	Search title online or through a library catalogue.
Orthodontic Laboratory Techniques	Orthodontic appliance design and fabrication.	Library / Purchase	Search title online or through a library catalogue.
Introduction to Metal-Ceramic Technology	Technical resource on restorative design considerations.	Library / Purchase	Search title online or through a library catalogue.
Textbook of Complete Dentures	Complete denture treatment and fabrication reference.	Library / Purchase	Search title online or through a library catalogue.

Competency 3.2
Design various types of dental prostheses and appliances.

Resource	Description	Access	Access Information
Dental Laboratory Technology: Basic Sciences, Removable Prosthodontics, and Orthodontics (Vol. 1)	Foundational dental laboratory technology resource.	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v1.pdf
Dental Laboratory Technology: Fixed and Special Prosthodontics (Vol. 2)	Advanced fixed prosthodontic resource.	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v2.pdf
Contemporary Fixed Prosthodontics	Comprehensive fixed prosthodontics reference.	Library / Purchase	Search title online or through a library catalogue.
Introducing Dental Implants	Introductory resource on dental implants.	Library / Purchase	Search title online or through a library catalogue.
Principles of Design and Fabrication in Prosthodontics	Prosthodontic design principles.	Library / Purchase	Search title online or through a library catalogue.
Basics of Dental Technology: A Step-by-Step Approach	Introductory dental technology resource.	Library / Purchase	Search title online or through a library catalogue.
Precision Fixed Prosthodontics: Clinical and Laboratory Aspects	Fixed prosthodontic laboratory procedures.	Library / Purchase	Search title online or through a library catalogue.
Complete Denture Fabrication	Practical denture design guide.	Library / Purchase	Search title online or through a library catalogue.
Introduction to Metal-Ceramic Technology	Metal-ceramic restoration design.	Library / Purchase	Search title online or through a library catalogue.

Competency 3.3
Fabricate and repair functional dental prostheses and appliances.

Resource	Description	Access	Access Information
Dental Laboratory Technology: Basic Sciences, Removable Prosthodontics, and Orthodontics (Vol. 1)	Foundational dental laboratory technology resource.	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v1.pdf
Principles of Design and Fabrication in Prosthodontics	Fabrication principles and procedures.	Library / Purchase	Search title online or through a library catalogue.
Basics of Dental Technology: A Step-by-Step Approach	Practical fabrication techniques.	Library / Purchase	Search title online or through a library catalogue.
Complete Denture Fabrication	Practical denture fabrication guide.	Library / Purchase	Search title online or through a library catalogue.
Orthodontic Laboratory Techniques	Orthodontic appliance fabrication techniques.	Library / Purchase	Search title online or through a library catalogue.
Introduction to Metal-Ceramic Technology	Metal-ceramic fabrication techniques.	Library / Purchase	Search title online or through a library catalogue.

Competency 3.4
Perform quality control prior to releasing a dental prosthesis or appliance.

Resource	Description	Access	Access Information
Basics of Dental Technology: A Step-by-Step Approach	Foundational dental technology practices and quality assurance.	Library / Purchase	Search title online or through a library catalogue.
Orthodontic Laboratory Techniques	Appliance fabrication and quality control practices.	Library / Purchase	Search title online or through a library catalogue.

Introduction to Metal-Ceramic Technology	Quality considerations in restorative fabrication.	Library / Purchase	Search title online or through a library catalogue.

Competency 3.5
Modify and repair dental prostheses and appliances, considering relevant factors.

Resource	Description	Access	Access Information
Basics of Dental Technology: A Step-by-Step Approach	Foundational dental technology techniques.	Library / Purchase	Search title online or through a library catalogue.
Complete Denture Fabrication	Denture modification and repair techniques.	Library / Purchase	Search title online or through a library catalogue.
Orthodontic Laboratory Techniques	Orthodontic appliance modification and repair.	Library / Purchase	Search title online or through a library catalogue.
Introduction to Metal-Ceramic Technology	Restoration repair and modification principles.	Library / Purchase	Search title online or through a library catalogue.

Competency 4.1
Provide safe, ethical, and effective services.

Resource	Description	Access	Access Information
Infection Control and Management of Hazardous Materials for the Dental Team	Comprehensive infection prevention and control resource.	Library / Purchase	Search title online or through a library catalogue.
Infection Control Course (DentalCare.com)	Online infection prevention and control course.	Free Online	https://www.dentalcare.com/en-us/ce-courses/ce591

Competency 4.3
Demonstrate sustainable business practices that are socially responsible and environmentally friendly.

Resource	Description	Access	Access Information
Dental Laboratory Technology: Basic Sciences, Removable Prosthodontics, and Orthodontics (Vol. 1)	Foundational dental laboratory technology resource.	Free Online	https://static.e-publishing.af.mil/etc/afpam47-103v1.pdf

Competency 4.6
Apply critical-thinking skills and use professional judgment in all aspects of practice.

Resource	Description	Access	Access Information
Orthodontic Laboratory Techniques	Clinical decision-making and technical judgment in appliance fabrication.	Library / Purchase	Search title online or through a library catalogue.

Competency 5.2
Apply cultural competence to practice when providing services to patients.

Resource	Description	Access	Access Information
Canadian Charter of Rights and Freedoms	Foundational rights-based framework supporting ethical practice.	Free Online	https://www.canada.ca/en/canadian-heritage/services/how-rights-protected/guide-canadian-charter-rights-freedoms.html
Common Definitions on Cultural Safety	Introduction to cultural safety concepts in healthcare.	Free Online	https://www.canada.ca/en/health-canada/services/publications/health-system-services/chief-public-health-officer-health-professional-forum-common-definitions-cultural-safety.html

Competency 5.3
Collect and document relevant information to inform the design and to assist with treatment planning.

Resource	Description	Access	Access Information
Principles of Design and Fabrication in Prosthodontics	Design planning and treatment planning principles.	Library / Purchase	Search title online or through a library catalogue.

Final Note

The resources included in this inventory are examples of learning opportunities that may support competency development and gap-filling. They are intended as a starting point and are not exhaustive. You are encouraged to identify additional learning opportunities that align with your learning needs, goals, and circumstances, including workplace-based learning, mentorship, and supervised practice opportunities where available.

Remember that competency development often occurs through a combination of learning approaches, including reading, online learning, workplace-based learning, mentorship, supervised practice, and reflective practice.