Western Technical College

31508311 Dental Assistant Clinical - Advanced

Course Outcome Summary

Course Information

Description Dental Assisting students apply skills developed in Dental Chairside - Advanced, Dental Lab Procedures, Dental Radiography - Advanced, and Dental Office Procedures in a clinical setting with patients. Emphasizes integration of core abilities and basic and advanced occupational skills.

Career Cluster Health Science

Instructional Level Technical Diploma Courses

Total Credits 2.00

Total Hours 144.00

Types of Instruction

Instruction Type Occupational

Credits/Hours 2 CR / 144 HR

Course History

Target Population Individuals who are preparing for a career as Dental Assistants

Pre/Corequisites

Prerequisite 31508302 Dental Chairside

Textbooks


Learner Supplies


Student Name Pain. Vendor: To be discussed in class. Required.

Core Abilities

1. Apply mathematical concepts.
   Status Active

2. Demonstrate ability to think critically.
   Status Active

3. Demonstrate ability to value self and work ethically with others in a diverse population.
   Status Active

4. Make decisions that incorporate the importance of sustainability.
   Status Active

5. Transfer social and natural science theories into practical applications.
   Status Active

6. Use effective communication skills.
   Status Active

7. Use technology effectively.
   Status Active

Program Outcomes

1. Perform a variety of advanced supportive dental procedures
   Status Active

2. Manage infection and hazard control
   Status Active

3. Produce diagnostic intraoral and extraoral radiographs on a variety of patients
   Status Active

4. Perform advanced dental laboratory procedures
   Status Active

5. Demonstrate professional behaviors, ethics and appearance
   Status Active

6. Perform dental office business procedures
   Status Active

External Standards

Title Dental Assisting Standards - ADA
Version/Date 2008
Association Status Active
Sponsoring Organization American Dental Association
Origin URL www.ada.org/sections/educationAndCareers/pdfs/da.pdf

Target Standards
2-4 The curriculum must be structured on the basis of, a minimum of, one academic year of full-time study or its equivalent at the postsecondary level.

2-5 The curriculum must be designed to reflect the interrelationship of its general education, biomedical sciences, dental sciences, clinical sciences and clinical practice. This content must be integrated and of sufficient depth, scope, sequence of instruction, quality and emphasis to ensure achievement of the curriculum's defined competencies.

2-6 Written documentation of each course in the curriculum must be provided and include the course description, course outline including topics to be presented, specific instructional objectives, learning experiences including time allocated for each experience and evaluation procedures.

2-7 Graduates must be competent in the knowledge and skill required to systematically collect diagnostic data, including: Medical and dental histories, Vital signs, Extra/intra oral examinations, Dental charting, Radiographs, Preliminary impressions/study casts/occlusal registrations.

2-8.a Manage infection and hazard control protocol consistent with published professional guidelines.

2-8.b Prepare tray setups.

2-8.c Prepare and dismiss patients

2-8.d Apply current concepts of chairside assisting.

2-8.e Assist with and/or apply topical anesthetic.

2-8.f Assist with and/or place and remove rubber dam.

2-8.g Assist with and/or apply fluoride agents.

2-8.h Provide oral health instruction.

2-8.i Provide post-operative instructions prescribed by a dentist.

2-8.j Maintain accurate patient treatment records.

2-8.k Maintain treatment area.

2-8.l Assist in the management of medical and dental emergencies.

2-8.m Administer cardiopulmonary resuscitation when indicated.

2-8.n Fabricate custom trays.

2-8.o Clean and polish removable appliances and prostheses.

2-8.p Fabricate provisional restorations.

2-9.a Manage telephones.


2-9.c Perform financial transactions.

2-9.d Complete third-party reimbursement forms.

2-9.e Maintain supply inventory.

2-9.f Manage recall systems.

2-9.g Operate business equipment to include computers.

2-11 The curriculum must include content in five areas: general education, biomedical sciences, dental sciences, clinical sciences and clinical practice.

2-12 The general education aspect of the curriculum must include content at the familiarity level: a. Oral communications b. Written communications c. Psychology

2-13.c The biomedical science aspect of the curriculum must include content at the familiarity level in Nutrition
2-14 The biomedical science aspect of the curriculum must include content at the in-depth level in bloodborne pathogens and hazard communications standards and content must be integrated throughout the didactic, preclinical, laboratory and clinical components of the curriculum.

2-15.d The dental science aspect of the curriculum must include content at the familiarity level in pharmacology.

2-16.a The dental science aspect of the curriculum must include content at the in-depth level in dental materials.

2-21.a The clinical science aspect of the curriculum must include content at the in-depth level to include general dentistry.

2-21.b The clinical science aspect of the curriculum must include content at the in-depth level to include specialty procedures as they relate to general dentistry.

2-21.c The clinical science aspect of the curriculum must include content at the in-depth level to include practice management.

2-21.d The clinical science aspect of the curriculum must include content at the in-depth level to include chairside assisting.

2-21.e The clinical science aspect of the curriculum must include content at the in-depth level to include dental-related environmental hazards.

2-21.f The clinical science aspect of the curriculum must include content at the in-depth level to include oral health education.

2-21.g The clinical science aspect of the curriculum must include content at the in-depth level to include management of dental and medical emergencies.

2-21.h The clinical science aspect of the curriculum must include content at the in-depth level to include legal and ethical aspects of dentistry.

2-22 Clinical experience assisting a dentist must be an integral part of the educational program designed to perfect students' competence in performing dental assisting functions, rather than to provide basic instruction.

2-23 Each student must be assigned to more than one office or clinic for clinical experience and assisting in general dentistry situations is emphasized.

2-24 The quality and variety of experience gained in each assignment must be considered as well as the quantity of functions performed.

2-25 The major portion of the students' time in clinical assignments must be spent assisting with or participating in patient care.

2-26 The dental assisting faculty must plan, supervise and evaluate the student's clinical experience.

2-27 As students progress through the clinical phase of the program, their levels of performance must be expected to elevate.

2-28 Students must maintain a record of their activities in each assignment.

2-29 Seminars must be conducted periodically with students during the clinical phase of the program. Examples of evidence to demonstrate compliance may include: Each student has approximately 300 hours of clinical experience in performing the functions listed in the Accreditation Standards.

2-30 When clinical experience is provided in extramural facilities, a dental assisting faculty member must visit each facility regularly to assess each student's progress and provisions must be made to support travel required for faculty to supervise this activity.

2-31 When clinical experience is provided in extramural facilities, objective evaluation criteria must be utilized by faculty and office or clinical personnel to evaluate students' competence in performing specified procedures.
Course Competencies

1. **Collect diagnostic and treatment data**
   
   **Domain**  Cognitive  **Level**  Application  **Status**  Active
   
   Linked Core Abilities
   Apply mathematical concepts.
   Demonstrate ability to think critically.
   Demonstrate ability to value self and work ethically with others in a diverse population.
   Make decisions that incorporate the importance of sustainability.
   Transfer social and natural science theories into practical applications.
   Use effective communication skills.
   Use technology effectively.

   Linked Program Outcomes
   Perform a variety of advanced supportive dental procedures
   Manage infection and hazard control
   Produce diagnostic intraoral and extraoral radiographs on a variety of patients
   Perform advanced dental laboratory procedures
   Demonstrate professional behaviors, ethics and appearance
   Perform dental office business procedures

   Assessment Strategies
   1.1. by working with patients onsite in a dental office/clinic
   1.2. by performing data collection tasks in accordance with criteria for related competencies published in preceding Dental Assistant courses.
   1.3. by making an entry in your Clinical Experience Log each time you perform these tasks
   1.4. by meeting performance expectations of supervising dentist and dental professionals
   1.5. in a written, graphic, or oral reflection on how you have improved this skill since previous clinical experience

   Criteria
   Your performance will be successful when:
   1.1. you exhibit increasing confidence and skill as you perform the following tasks: collect medical/dental histories; obtain informed consent; take vital signs; chart oral cavity structures and missing teeth; chart dental pathology; chart restorations; and document treatment for multiple patients
   1.2. your log entries note data collection tasks performed, date, time, (and your comments if desired)
   1.3. your reflection presents a realistic picture of your skill prior to the learning experience
   1.4. your reflection describes and gives an example of how your performance and/or confidence have improved
   1.5. your reflection includes strategies for continued improvement
   1.6. your reflection presents insight about your learning experience
   1.7. your reflection exhibits correct use of dental/medical terminology, grammar, spelling, and punctuation

2. **Manage infection and hazard control**
   
   **Domain**  Cognitive  **Level**  Application  **Status**  Active
   
   Linked Core Abilities
   Apply mathematical concepts.
   Demonstrate ability to think critically.
   Demonstrate ability to value self and work ethically with others in a diverse population.
   Make decisions that incorporate the importance of sustainability.
   Transfer social and natural science theories into practical applications.
   Use effective communication skills.
   Use technology effectively.

   Linked Program Outcomes
   Perform a variety of advanced supportive dental procedures
   Manage infection and hazard control
   Produce diagnostic intraoral and extraoral radiographs on a variety of patients
   Perform advanced dental laboratory procedures
Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
2.1. by working with patients onsite in a dental office/clinic
2.2. by performing infection management and hazard control tasks in accordance with criteria for related competencies published in preceding Dental Assistant courses.
2.3. by making an entry in your Clinical Experience Log each time you perform these tasks
2.4. by meeting performance expectations of supervising dentist and dental professionals
2.5. in a written, graphic, or oral reflection on what you have learned in the clinical experience

Criteria
Your performance will be successful when:
2.1. you exhibit increasing confidence and skill as you perform the following tasks: employ personal and patient protection to prevent disease transmission; reprocess instruments; reprocess treatment rooms; manage waste; adhere to OSHA Hazardous Communication Standard; and maintain infection control records
2.2. your log entries note infections and hazard control tasks performed, date, time, (and your comments if desired)
2.3. your reflection presents a realistic picture of your skill prior to the learning experience
2.4. your reflection describes and gives an example of how your performance and/or confidence have improved
2.5. your reflection includes strategies for continued improvement
2.6. your reflection presents insight about your learning experience

3. Perform clinical supportive treatments

Domain  Psychomotor  Level  Adaptation  Status  Active

Linked Core Abilities
Apply mathematical concepts.
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Demonstrate professional behaviors, ethics and appearance
Perform dental office business procedures

Assessment Strategies
3.1. by working with patients onsite in a dental office/clinic
3.2. by performing clinical supportive treatment tasks in accordance with criteria for related competencies published in preceding Dental Assistant courses.
3.3. by making an entry in your Clinical Experience Log each time you perform these treatments
3.4. by meeting performance expectations of supervising dentist and dental professionals
3.5. in a written, graphic, or oral reflection on what you have learned in the clinical experience

Criteria
Your performance will be successful when:
3.1. you exhibit increasing confidence and skill as you perform the following tasks: transition patient through a dental procedure; assist with dental exams; perform four-handed dental assisting; operate dental equipment; transfer dental instructions for various procedures; maintain a clear operating field; maintain and assemble dental instruments; assist with chairside pain control, apply local anesthetic; assist with direct cosmetic restoration; and assist with amalgam restoration
3.2. your log entries note clinical supportive treatments performed, date, time, (and your comments if desired)
3.3. your reflection presents a realistic picture of your skill prior to the learning experience
3.4. your reflection describes and gives an example of how your performance and/or confidence have improved
4. **Take diagnostic radiographs**

   **Domain**  
   Psychomotor  
   **Level**  
   Adaptation  
   **Status**  
   Active  

   **Linked Core Abilities**
   - Apply mathematical concepts.
   - Demonstrate ability to think critically.
   - Demonstrate ability to value self and work ethically with others in a diverse population.
   - Make decisions that incorporate the importance of sustainability.
   - Transfer social and natural science theories into practical applications.
   - Use effective communication skills.
   - Use technology effectively.

   **Linked Program Outcomes**
   - Perform a variety of advanced supportive dental procedures
   - Manage infection and hazard control
   - Produce diagnostic intraoral and extraoral radiographs on a variety of patients
   - Demonstrate professional behaviors, ethics and appearance

   **Assessment Strategies**
   4.1. by working with patients onsite in a dental office/clinic
   4.2. by taking diagnostic radiographs in accordance with criteria for related competencies published in preceding Dental Assistant courses.
   4.3. by making an entry in your Clinical Experience Log each time you take or process radiographs
   4.4. by meeting performance expectations of supervising dentist and dental professionals
   4.5. in a written, graphic, or oral reflection on what you have learned in the clinical experience

   **Criteria**
   *Your performance will be successful when:*
   4.1. you exhibit increasing confidence and skill as you perform the following tasks: ensure radiation safety; follow infection control protocols; manage patients during the radiography process; process and mount radiographs; evaluate radiographs for diagnostic value; interpret radiographic findings; expose periapicals using paralleling and bisecting techniques; expose full-mouth radiographs; produce extra-oral radiographs; and produce radiographs using specialized film and techniques
   4.2. your log entries note radiographs exposed and processed, date, time, (and your comments if desired)
   4.3. your reflection presents a realistic picture of your skill prior to the learning experience
   4.4. your reflection describes and gives an example of how your performance and/or confidence have improved
   4.5. your reflection includes strategies for continued improvement
   4.6. your reflection presents insight about your learning experience

5. **Perform dental laboratory procedures**

   **Domain**  
   Psychomotor  
   **Level**  
   Practice  
   **Status**  
   Active  

   **Linked Core Abilities**
   - Apply mathematical concepts.
   - Demonstrate ability to think critically.
   - Demonstrate ability to value self and work ethically with others in a diverse population.
   - Make decisions that incorporate the importance of sustainability.
   - Transfer social and natural science theories into practical applications.
   - Use effective communication skills.
   - Use technology effectively.

   **Linked Program Outcomes**
   - Perform a variety of advanced supportive dental procedures
   - Manage infection and hazard control
   - Perform advanced dental laboratory procedures
   - Demonstrate professional behaviors, ethics and appearance

   **Assessment Strategies**
5.1. by working with patients onsite in a dental office/clinic
5.2. by performing dental laboratory tasks in accordance with criteria for related competencies published in preceding Dental Assistant courses.
5.3. by making an entry in your Clinical Experience Log each time you perform these tasks
5.4. by meeting performance expectations of supervising dentist and dental professionals
5.5. in a written, graphic, or oral reflection on what you have learned in the clinical experience

Criteria

Your performance will be successful when:

5.1. you exhibit increasing confidence and skill as you perform the following tasks: prepare liners, bases, and cements; prepare amalgam for a direct restoration; prepare direct aesthetic restorative materials; mix impression materials; clean removable appliances; produce alginate impressions; fabricate and trim models, create vacuum-formed oral appliances; fabricate custom impression trays; polish oral appliances; prepare provisional tooth coverage; and explain the indications, procedure, and benefits of indirect restoration to a patient
5.2. your log entries note dental lab procedures performed, date, time, (and your comments if desired)
5.3. your reflection presents a realistic picture of your skill prior to the learning experience
5.4. your reflection accurately describes your new skill level
5.5. your reflection describes and gives an example of how your performance and/or confidence have improved
5.6. your reflection includes strategies for continued improvement
5.7. your reflection presents insight about your learning experience

6. **Provide patient oral health instruction**

*Domain*  
**Cognitive**  
**Level**  
**Application**  
**Status**  
**Active**

**Linked Core Abilities**
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

**Linked Program Outcomes**
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Demonstrate professional behaviors, ethics and appearance

**Assessment Strategies**

6.1. by working with patients onsite in a dental office/clinic
6.2. by providing patient oral health instruction in accordance with criteria for related competencies published in preceding Dental Assistant courses.
6.3. by making an entry in your Clinical Experience Log each time you perform these tasks
6.4. by meeting performance expectations of supervising dentist and dental professionals
6.5. in a written, graphic, or oral reflection on what you have learned in the clinical experience

**Criteria**

Your performance will be successful when:

6.1. you exhibit increasing confidence and skill as you perform the following tasks: counsel patients about nutrition and its relationship to oral health; teach patients to use proper tooth brushing techniques; explain the and importance and procedures of preventative dentistry to patients
6.2. your log entries note oral health instruction given, date, time, (and your comments if desired)
6.3. your reflection presents a realistic picture of your skill prior to the learning experience
6.4. your reflection describes and gives an example of how your performance and/or confidence have improved
6.5. your reflection includes strategies for continued improvement
6.6. your reflection presents insight about your learning experience

7. **Assist in managing medical emergencies**
Linked Core Abilities
Apply mathematical concepts.
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Demonstrate professional behaviors, ethics and appearance

Assessment Strategies
7.1. by working with patients onsite in a dental office/clinic
7.2. by assisting in the management of medical emergencies as they may arise in accordance with criteria for related competencies published in preceding Dental Assistant courses, or by discussing with a mentor how medical emergencies are handled at your clinical site.
7.3. by making an entry in your Clinical Experience Log each time you perform these tasks
7.4. by meeting performance expectations of supervising dentist and dental professionals
7.5. in a written, graphic, or oral reflection on what you have learned in the clinical experience

Criteria
Your performance will be successful when:
7.1. you exhibit increasing confidence and skill as you perform the following tasks: assist in handling dental office medical, chemical, and infectious emergencies as they arise; assist in maintaining emergency equipment and supplies; make dental office staff members aware of potential contraindications for prescribed medications; and perform or assist with CPR if the need arises
7.2. your log entries note any medical emergency assistance provided, date, time, (and your comments if desired)
7.3. your reflection presents a realistic picture of your skill prior to the learning experience
7.4. your reflection describes and gives an example of how your performance and/or confidence have improved
7.5. your reflection includes strategies for continued improvement
7.6. your reflection presents insight about your learning experience

8. Carry out dental office procedures

Linked Core Abilities
Apply mathematical concepts.
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Demonstrate professional behaviors, ethics and appearance
Perform dental office business procedures

Assessment Strategies
8.1. by working with patients onsite in a dental office/clinic
8.2. by assisting in the management of medical emergencies as they may arise in accordance with criteria for related competencies published in preceding Dental Assistant courses, or by discussing with a mentor how medical emergencies are handled at your clinical site.
8.3. by making an entry in your Clinical Experience Log each time you perform these tasks
8.4. by meeting performance expectations of supervising dentist and dental professionals
8.5. in a written, graphic, or oral reflection on what you have learned in the clinical experience

Criteria

Your performance will be successful when:
8.1. you exhibit increasing confidence and skill as you perform the following tasks: manage telephone calls; assist with appointment management; assist with recall management; assist with dental record processing; assist in processing collections and accounts payable; assist with inventory management; operate business equipment and software; and assist with the completion of third party reimbursement forms
8.2. your log entries note office procedure tasks performed, date, time, (and your comments if desired)
8.3. your reflection presents a realistic picture of your skill prior to the learning experience
8.4. your reflection describes and gives an example of how your performance and/or confidence have improved
8.5. your reflection compares your clinical experience with your classroom experience
8.6. your reflection includes strategies for continued improvement
8.7. your reflection presents insight about your learning experience

9. Model professional behaviors, ethics, and appearance

Linked Core Abilities
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Produce diagnostic intraoral and extraoral radiographs on a variety of patients
Perform advanced dental laboratory procedures
Demonstrate professional behaviors, ethics and appearance
Perform dental office business procedures

Assessment Strategies
9.1. by working with patients onsite in a dental office/clinic
9.2. by exhibiting professional behaviors, ethics, and appearance in accordance with criteria for related competencies published in preceding Dental Assistant courses.
9.3. by meeting performance expectations of supervising dentist and dental professionals
9.4. in a written, graphic, or oral reflection on what you have learned in the clinical experience

Criteria

Your performance will be successful when:
9.1. you exhibit a professional appearance complying with the dress code of the program
9.2. you exhibit increasing professional confidence and competence by: meeting or exceeding the attendance policy; meeting or exceeding the dress code; declining to perform tasks not permitted to a student dental assistant; maintaining confidentiality; and contributing to a positive ethical and professional climate
9.3. your reflection presents a realistic picture of your skill prior to the learning experience
9.4. your reflection describes and gives an example of how your performance and/or confidence have improved
9.5. your reflection includes strategies for continued improvement
9.6. your reflection presents insight about your learning experience

10. Integrate the core abilities designated by your college into your performance in a professional setting

Status Active
Linked Core Abilities
Apply mathematical concepts.
Demonstrate ability to think critically.
Demonstrate ability to value self and work ethically with others in a diverse population.
Make decisions that incorporate the importance of sustainability.
Transfer social and natural science theories into practical applications.
Use effective communication skills.
Use technology effectively.

Linked Program Outcomes
Perform a variety of advanced supportive dental procedures
Manage infection and hazard control
Produce diagnostic intraoral and extraoral radiographs on a variety of patients
Perform advanced dental laboratory procedures
Demonstrate professional behaviors, ethics and appearance
Perform dental office business procedures

Assessment Strategies
10.1. by having your instructor, a colleague, and your supervisor in a clinical setting complete a core ability evaluation that incorporates your college's core abilities and performance indicators
10.2. by completing a written reflection on the results of the core ability evaluations

Criteria
Your performance will be successful when:
10.1. your core ability evaluations are completed by at least one colleague, one supervisor, and your instructor
10.2. your core ability evaluations show that you have made progress toward, met, or exceeded each core ability
10.3. your reflection presents a realistic picture of your core abilities prior to this learning experience
10.4. your reflection provides a description your core ability strengths and gives one or more examples to back them up
10.5. your reflection gives several examples of how your core abilities have improved
10.6. your reflection describes areas in which the three evaluations do not agree with each other or with your own evaluation and suggests why there are differing perceptions
10.7. your reflection set goals and identifies strategies for continually improving your core abilities