

The University of Jordan
Faculty of Dentistry
Department of Conservative Dentistry and Prosthodontics
2011/2012

Course Title: Conservative Dentistry 3 - Practical

Course Code: 1302416

Semester: 1st and 2nd semesters/ 4th year

Prerequisite: None

Credits: 6 credit hours

Department: Conservative Dentistry and Prosthodontics

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Course Objectives:

The objectives of this course are:

- Produce safe, competent and ethical practitioners equipped with the necessary knowledge, skills and behaviors (attitudes) appropriate to engage in the independent practice of dentistry
- Emphasize the importance of thorough history taking, extra and intra-oral examinations, in addition to providing a comprehensive treatment plan for patients
- Emphasize the importance of skillful dentist-patient communication in treatment success and patient satisfaction
- Obtain written records of patient related information including their personal information, consent forms, examination results, treatment plans, prescribed drugs and progress notes observing records confidentiality
- Provide understanding of various diagnostic techniques in relation to carious lesions and their applications
- Provide understanding of various diagnostic techniques in relation to pulpal and periapical disease and their limitations
- Consolidate skills of cavity preparation and clinical handling of the most common direct restorative materials
- Emphasize the importance of periodontal considerations in relation to restorative dentistry
- Adhering to patient management and cross infection control guidelines

Learning Outcomes:

Successful completion of this course should lead to the following learning outcomes:

- Students should be able to use their allocated unit and position themselves in the correct position throughout the simulated clinical exercises.
- Students should be able to apply the cross infection control methods.

A. Knowledge and understanding, student should:

- Be able to discuss various etiological factors related to caries
- Be able to describe various etiological factors related to non-carious lesions
- Be able to discuss various etiological factors related to teeth discoloration
- Be able to discuss the effect of trauma on teeth and periodontium
- Be able to recognize various pulpal and periapical diseases

B. Intellectual skills, with ability to:

- List the differential diagnosis and differentiate the key factors of each carious and non-carious tooth tissue loss
- Analyze whether a restoration is needed and suggest the relative merits or demerits of possible restorative intervention

- Use preventive approaches whenever indicated

C. Subject specific skills, with ability to:

- Perform appropriate cavity design in relation to disease, materials and the patient
- Deal with dental trauma and avulsion
- Deal with non carious lesions, preventive and simple restorative measures
- Deal with teeth discoloration by conservative methods or direct restorations
- Perform successful root canal treatment of anterior and premolar teeth
- Take radiographs by paralleling technique during root canal treatment under rubber-dam isolation
- Apply rubber-dam in various conditions

D. Transferable skills, with ability to:

- Understand the importance of considering various etiological and risk factors contributing to tooth surface loss and pulpal disease in formulating an integrated treatment plan, that covers the dental needs of a patient, and the importance of consultation with other specialties, referral and team work.

Teaching Methods:

Duration: 28 weeks, 84 hours actual clinical practice.

Practical sessions: a 2-hours session thrice a week, divided between operative and endodontic procedures.

Requirements:

- Instruments:
 - Basic examination sets
 - Periodontal probes
 - Amalgam instruments sets
 - Plastic instruments
 - High and slow speed dental burs (cutting and finishing)
- Cases:
 - There will be a point system where the student will accumulate points for treating different cases
 - Cases accepted are:
 - Carious lesions
 - Non carious lesions indicated for restoration

- Pulpal pathology mandating root canal treatment for anterior or premolar teeth
 - Tooth discoloration
- Points:
 - One hundred points for operative work (30 points minimum of each amalgam and composite restorations), and 6 canals including a two-rooted premolar is required to be able to enter the final exam
 - Any additional point over the first 100 will not be considered.
 - Points will be attributed as follows:

Procedure	Equivalent points
One surface amalgam	2
Two surface amalgam	3
Three surface amalgam	4
Complex amalgam involving cuspal coverage	5
One surface composite	2
Two surface composite	3
Three surface composite	4
Four surface composite or composite veneer	5
Prefabricated post or pins	2
Home bleaching (single case allowed)	5
Internal bleaching (single case allowed)	5
Microabrasion (single case allowed)	3
Extras (pits, class VI (incisal notch), enameloplasty and polishing)	1

Evaluation system:

- The system will be based on the evaluation of the quantity as well as the quality of the work
- The distribution of marks will be as follows:
 - **Daily evaluations (60 marks)**
 - Quantity * Quality: 60% (36 marks/60)
 - Patient management: 15% (9 marks/60)

- Competencies: 25% (15 marks/60)
- **Final exam (40 marks)**
 - OSCE format
- Regarding **quantity**:
 - Points are given for each of the procedures done in the clinic according to the above table
 - A total 100 points (Operative) and 6 canals including 2-rooted premolar (Endodontics) are required to successfully complete the course
- Regarding **quality**:
 - For each treated case, the student will be evaluated as follows:

Grade	Description	Equivalent points
A	Outstanding	1
B	Competent	0.8
C	Pass	0.5
D	Unsatisfactory	0.1

- Regarding **patient management**:
 - 15 points are granted for the student if he/she abides by certain professional and ethical necessities
 - Categories to be evaluated:
 - Cross infection control
 - Attendance
 - Dress code
 - Patient management, punctuality and professionalism
 - One point is deducted for each violation of the categories mentioned above
- Regarding **competencies**:
 - Certain procedures have to be performed during the course with an outstanding (A) or competent (B) quality
 - If the evaluation was pass or unsatisfactory, the student has to repeat the procedure to get an A or B
 - Supervisors should evaluate the procedures according to specific criteria
 - Each competency will take one mark, except the treatment plan competencies where each will take 2 marks. Therefore, successfully completing 23 competencies will give 25 marks.
 - Competencies required are mentioned in the following table:

1	Simple amalgam restoration (1 mark)	13	Matrix band placement (1 mark)
2	Complex amalgam restoration (1 mark)	14	Evaluation of patient's mandibular movements and occlusion(1 mark)
3	Anterior composite (1 mark)	15	Taking and interpreting intraoral bitewings and periapicals (1 mark)
4	Posterior composite (1 mark)	16	Access cavity for anterior teeth (1 mark)
5	Effective administration of LA (regional infiltration) (1 mark)	17	Access cavity to premolar teeth (1 mark)
6	Effective administration of LA (ID block) (1 mark)	18	Use of apex locator in working length determination (1 mark)
7	Single tooth isolation with rubber dam (1 mark)	19	Use of radiographs in working length determination (1 mark)
8	Multiple isolation with rubber dam (1 mark)	20	Root canal obturation (1 mark)
9, 10	Proper history taking, clinical exam and treatment plan (2 cases required, 2 marks each)	21	Decision making and referrals (ENDO) (1 mark)
11	Shade matching for restorations (1 mark)	22	Decision making and referrals (CONS) (1 mark)
12	Glass ionomer filling (1 mark)	23	Four handed dentistry (assistant side) (1 mark)

Attendance:

- Students are allowed 15% absence according to the laws of the university. This stands for 4 clinics for 4th year students in the course.

References and reading materials:

- **Sturdevant's Art and Science of Operative Dentistry**, 5th edition, Theodore M. Roberson, Harold O. Heymann, Edward J. Swift Jr.

- **Fundamentals of Operative Dentistry ; a Contemporary Approach**, 3rd edition, James B. Summitt, J. William Robbins, Thomas J. Hilton, Richard S. Schwartz, Jose, Jr. DOS Santos
- **Pathways of the pulp**, 8th edition, Stephen Cohen, Kenneth M. Hargreaves.
- **Principles and practice of endodontics**, 2nd edition, Walton & Torabinejad.

Appendix

1. Patient management guidelines
2. Competencies guidelines and evaluation sheets

University of Jordan/ School of Dentistry

Patient management guidelines

Students are required to abide by the following guidelines that are mandatory for direct patient care.

Cross infection control:

1. Adherence to clinic attire guidelines and personal protective equipment is mandatory.
2. All instruments used for patient care should be properly cleaned and sterilized.
3. Clean disposable sheets and wrapping should be used to cover the dental tray, chair handles, head rest, suction hose and bench top.
4. Contaminated items like gloves and instruments should always be left in the student's cubicle area during patient treatment. No contaminated items shall be at the dispensary area or other students' cubicles.
5. Students should avoid contaminating commonly perceived as "clean" items like; log books, history sheets, pens and personal items like bags and purses.
6. Thorough hand washing with soap should be performed before and after treating patients.
7. Items to be sent to a dental laboratory should be appropriately disinfected.
8. Students should dispose sharps in an appropriate manner. A one-handed "scoop" technique should be used to recap dental needles. All sharps should be disposed in the sharps containers distributed throughout the clinic area.
9. Students are required to clean and disinfect their dental chair and bench area after treating patients by the end of their assigned clinic time.

Attendance:

Students are expected to attend all clinic sessions assigned to them. A 15% excused absence is granted to the student. Excused absences include illness, injury, hospitalization, deaths, funerals of immediate family members (mother, father, grandparents, and siblings), and child birth.

Dress code:

1. A clean clinic coat fully buttoned with a shirt or blouse must be worn during all patient contact activities
2. Garments worn under the clinic coat shall not extend below the coat sleeve or over the collar.
3. Avoid wearing clothing which is flammable (polyester).
4. Socks and hosiery along with clean footwear are required. Sandals, flip flops, open top and open toe shoes are unacceptable as well as any footwear with the potential for injury from penetrating objects.
5. Safety glasses with side shields and a facemask must be worn during all patient contact activities.
6. Hair or beard which may interfere with clinic procedures must be controlled or confined within a surgical cap or face mask.
7. If scrubs are worn in clinic, a clinic coat worn over the top is required for patient care.
8. Jeans, pants with holes in them, hoodies, shorts and warm-up suits are not acceptable clinic attire.
9. Hands should be free of rings or any jewelry that may compromise the barrier of the glove. Wrists should be free of watches and jewelry that cannot be protected by the clinic coat sleeve during clinical activities.
10. The Guidelines for Personal Hygiene and Grooming:
 - Fingernails short, clean, smooth and free of colored or clear nail polish
 - Guard against offensive body odors

- Guard against use of strong perfumes or colognes
- Hair shall be clean and neatly trimmed
- Mouth free of objectionable odor. Avoid food that has a lingering effect on your breath and might be unpleasant for patients while you are providing care.
- Scrupulous oral hygiene

Professionalism:

Dental professionals are expected to follow these standards:

1. Putting patients' interests first and acting to protect them.
2. Respecting patients' dignity and choices.
3. Protecting the confidentiality of patients' information.
4. Co-operating with other members of the dental team and other healthcare colleagues in the interest of patients.
5. Maintaining professional knowledge and competence.
6. Being trustworthy.
7. Obtaining informed consent from patients after discussing all treatment options and the validity and prognosis of each option.
8. Providing a timely treatment for patients. Patients' treatment plans should be completed in a timely manner. Adherence to given appointments is expected. No delays are excused.
9. The student should be respectful to their patients, faculty, staff and other students.

Student Conduct in the Clinical Area:

1. Behavior in clinics shall, at all times, be professionally oriented.
2. Avoid whistling, humming and gum chewing when treating patients.
3. Discretion and courtesy should be exercised when seeking faculty and staff assistance.
4. Students must not discuss patient information in public places.
5. Students should have their mobile telephones turned off or on "silent mode" during patient care.

Competencies for 4th year dental students
Simple amalgam restoration

Student name:..... **Date:**.....

Guidelines:

1. Indicated cases can be either one or two surface amalgam restorations (i.e. class I or II)
2. Buccal or palatal pits are not indicated for this competency.
3. Replacement of defective or carious restorations is acceptable.
4. The selected tooth should have an opposing tooth and at least one proximal contact.
5. Any changes from ideal procedure or cavity design must be approved by the supervisor in advance of the change/s being made.
6. The supervisor will evaluate all the steps of cavity preparation and restoration.
7. Significant assistance and guidance for the student during the competency will lead to an incompetent evaluation necessitating procedure redo.

Procedure:

1. Select the case you plan on performing this competency on and obtain the patient's consent.
2. Inform your supervisor and obtain an approval to start the competency.
3. Start the regular steps in cavity preparation, lining, basing and restoration.
4. It is your responsibility to call the supervisor at all the steps in the procedure. Failure to do so gives the right for the supervisor to fail you in the competency.
5. The supervisor will evaluate cavity preparation and restoration according to the criteria on the following page.
6. Be prepared to answer your supervisor's questions that pertain to the procedure to insure clinical competency.
7. Obtain your supervisor's signature on your logbook and on the register in case of successful completion of the competency.

Supervisor: Please rate this competency for each of the following categories in the table. **An A or B grade will be considered Competent, C or D will be considered Incompetent.**

Please check either one of the following when the evaluation is completed:

Competent

Incompetent

Stamp/Signature:

Simple amalgam restoration

tooth#:

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory.

Also having 0-4 mark below then the task is considered unsatisfactory.

Fault		Fault	
Pulp exposure		Presence of gross caries at final stage	
Irreversible loss of resistance/retention form		Gross occlusal discrepancy (gross over-carving/ under-carving)	
Gross overhang of the amalgam		Open proximal contact	
		Lack of solid theoretical knowledge related to the clinical procedure	

Pass category (1-3):

1- Cavity:

	Adequate (1)	Inadequate/Inappropriate (0)
Outline form		
Retention form		
Resistance form		
Removal of caries		
Cavity depth		

2- Lining: if lining is not needed, student is given 2marks for right clinical decision, 0 for wrong decision.

	Adequate (1)	Inadequate/Inappropriate (0)
Coverage		
thickness		

3- Filling:

	Adequate (1)	Inadequate/Inappropriate (0)
Condensation		
Occlusal form/carving		
Waste management		

10= A

7-9= B

5-6= C

<5= D

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Final mark			
A	B	C	D

Competencies for 4th year dental students
Complex amalgam restoration

Student name:

Date:

Guidelines:

1. Indicated cases can be either three or four surface amalgam restorations.
2. Replacement of defective or carious restorations is acceptable.
3. The selected tooth should have an opposing tooth and at least one proximal contact.
4. Any changes from ideal procedure or cavity design must be approved by the supervisor in advance of the change/s being made.
5. The supervisor will evaluate all the steps of cavity preparation and restoration.
6. Significant assistance and guidance for the student during the competency will lead to an incompetent evaluation necessitating procedure redo.

Procedure:

1. Select the case you plan on performing this competency on and obtain the patient's consent.
2. Inform your supervisor and obtain an approval to start the competency.
3. Start the regular steps in cavity preparation, lining, basing and restoration.
4. It is your responsibility to call the supervisor at all the steps in the procedure. Failure to do so gives the right for the supervisor to fail you in the competency.
5. The supervisor will evaluate cavity preparation and restoration according to the criteria on the following page.
6. Be prepared to answer your supervisor's questions that pertain to the procedure to insure clinical competency.
7. Obtain your supervisor's signature on your logbook and on the register in case of successful completion of the competency.

Supervisor: Please rate this competency for each of the following categories in the table. **An A or B grade will be considered Competent, C or D will be considered Incompetent.**

Please check either one of the following when the evaluation is completed:

Competent

Incompetent

Stamp/Signature:

Complex amalgam restoration

tooth#:

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory.

Also having 0-4 mark below then the task is considered unsatisfactory.

Fault		Fault	
Pulp exposure		Presence of gross caries at final stage	
Irreversible loss of resistance/retention form		Gross occlusal discrepancy (gross over-carving/ under-carving)	
Gross overhang of the amalgam		Open proximal contact	
		Lack of solid theoretical knowledge related to the clinical procedure	

Pass category (1-3):

1- Cavity:

	Adequate (1)	Inadequate/Inappropriate (0)
Outline form		
Retention/resistance form		
Removal of caries		
Cavity depth		

2- Lining: if lining is not needed, student is given 2marks for right clinical decision, 0 for wrong decision.

	Adequate (1)	Inadequate/Inappropriate (0)
Coverage		
thickness		

3- Filling:

	Adequate (1)	Inadequate/Inappropriate (0)
Condensation		
Occlusal form/carving		
Marginal ridge carving		
proximal contact		

10= A

7-9= B

5-6= C

<5= D

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Final mark			
A	B	C	D

Competencies for 4th year dental students
Anterior composite restoration

Student name:

Date:

Guidelines:

1. Indicated cases can be either a **class III or IV** composite restorations.
2. All two or more surface restorations must restore at least one proximal contact.
3. Replacement of defective or carious restorations is acceptable.
4. Any changes from ideal procedure or cavity design must be approved by the supervisor in advance of the change/s being made.
5. The supervisor will evaluate all the steps of cavity preparation and restoration.
6. Significant assistance and guidance for the student during the competency will lead to an incompetent evaluation necessitating procedure redo.

Procedure:

1. Select the case you plan on performing this competency on and obtain the patient's consent.
2. Inform your supervisor and obtain an approval to start the competency.
3. Start the regular steps in cavity preparation, lining, basing and restoration.
4. It is your responsibility to call the supervisor at all the steps in the procedure. Failure to do so gives the right for the supervisor to fail you in the competency.
5. The supervisor will evaluate cavity preparation and restoration according to the criteria on the following page.
6. Be prepared to answer your supervisor's questions that pertain to the procedure to insure clinical competency.
7. Obtain your supervisor's signature on your logbook and on the register in case of successful completion of the competency.

Supervisor: Please rate this competency for each of the following categories in the table. **An A or B** grade will be considered **Competent**, **C or D** will be considered **Incompetent**.

Please check either one of the following when the evaluation is completed:

Competent

Incompetent

Stamp/Signature:

Anterior composite restoration

tooth#:

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory.

Also having 0-4 mark below then the task is considered unsatisfactory.

Fault		Fault	
Pulp exposure		Presence of gross caries at final stage	
Irreversible loss of resistance/retention form		Contamination with blood/saliva which prevented adequate bonding	
Gross overhang /roughness of composite		Open proximal contact	
		Lack of solid theoretical knowledge related to the clinical procedure	

Pass category (1-3):

1- Cavity:

	Adequate (1)	Inadequate/Inappropriate (0)
Outline form		
Retention/resistance form		
Removal of caries		
Cavity depth		

2- Lining: if lining is not needed, student is given 2marks for right clinical decision, 0 for wrong decision.

	Adequate (1)	Inadequate/Inappropriate (0)
Coverage		
thickness		

3- Filling:

	Adequate (1)	Inadequate/Inappropriate (0)
Moisture control/bonding technique		
Morphology		
Colour match		
Finishing/polishing		

10= A

7-9= B

5-6= C

<5= D

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Final mark

A B C D

Competencies for 4th year dental students
Posterior composite restoration

Student name: **Date:**

Guidelines:

1. Indicated cases can be either a **class I or II composite** restorations.
2. Replacement of defective or carious restorations is acceptable.
3. Any changes from ideal procedure or cavity design must be approved by the supervisor in advance of the change/s being made.
4. The supervisor will evaluate all the steps of cavity preparation and restoration.
5. Significant assistance and guidance for the student during the competency will lead to an incompetent evaluation necessitating procedure redo.

Procedure:

1. Select the case you plan on performing this competency on and obtain the patient's consent.
2. Inform your supervisor and obtain an approval to start the competency.
3. Start the regular steps in cavity preparation, lining, basing and restoration.
4. It is your responsibility to call the supervisor at all the steps in the procedure. Failure to do so gives the right for the supervisor to fail you in the competency.
5. The supervisor will evaluate cavity preparation and restoration according to the criteria on the following page.
6. Be prepared to answer your supervisor's questions that pertain to the procedure to insure clinical competency.
7. Obtain your supervisor's signature on your logbook and on the register in case of successful completion of the competency.

Supervisor: Please rate this competency for each of the following categories in the table. An **A or B** grade will be considered **Competent**, **C or D** will be considered **Incompetent**.

Please check either one of the following when the evaluation is completed:

Competent

Incompetent

Stamp/Signature:

Posterior composite restoration

tooth#:

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory.

Also having 0-4 mark below then the task is considered unsatisfactory.

Fault		Fault	
Pulp exposure		Presence of gross caries at final stage	
Irreversible loss of resistance/retention form		Contamination with blood/saliva which prevented adequate bonding	
Gross overhang /roughness of composite		Open proximal contact	
		Lack of solid theoretical knowledge related to the clinical procedure	

Pass category (1-3):

1- Cavity:

	Adequate (1)	Inadequate/Inappropriate (0)
Outline form		
Retention/resistance form		
Removal of caries		
Cavity depth		

2- Lining: if lining is not needed, student is given 2marks for right clinical decision, 0 for wrong decision.

	Adequate (1)	Inadequate/Inappropriate (0)
Coverage		
thickness		

3- Filling:

	Adequate (1)	Inadequate/Inappropriate (0)
Moisture control/bonding technique		
Morphology		
Colour match		
Finishing/polishing		

10= A

7-9= B

5-6= C

<5= D

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Final mark

A B C D

Competencies for 4th year dental students
Effective administration of LA (inferior dental block)

Student name:

Date:

Guidelines:

1. Proper knowledge of the anesthetic material composition and amount is expected.
2. Medical conditions affecting LA administration should be known.
3. Thorough knowledge of the oral anatomy related to the site of LA administration is expected.
4. Safe handling of the needles and LA syringes is expected.
5. Proper patient positioning and paying attention to psychological aspects of LA administration.

Procedure:

1. The selected case should be pre-approved for the restorative work intended.
2. Inform your supervisor of your intent to perform the competency.
3. Administer the LA under the supervisor's observation.
4. The supervisor will evaluate the competency according to the criteria on the following page.
5. Be prepared to answer your supervisor's questions that pertain to the procedure to insure clinical competency.
6. Obtain your supervisor's signature on your logbook and on the register in case of successful completion of the competency.
7. Continue the restorative work for the patient.

Supervisor: Please rate this competency for each of the following categories in the table. **An A or B** grade will be considered **Competent**, **C or D** will be considered **Incompetent**.

Please check either one of the following when the evaluation is completed:

Competent

Incompetent

Stamp/Signature:

Region blocked:.....

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory.

Also having 0-3 mark below then the task is considered unsatisfactory.

Fault		Fault	
Ineffective anesthesia		Unsafe or careless handling of sharps	
Anesthetic overdose		Failure to inform the patient about the procedure	
Injury to patient's soft tissues		Failure to aspirate before the injection	
Failure to manage LA administration complications			

Pass categories:

	Adequate (1)	Inadequate/inappropriate (0)
Appropriateness of the technique used to the clinical case		
knowledge of the anesthetic material composition and amount		
Knowing medical conditions affecting LA administration		
Thorough knowledge of the oral anatomy related to the site of LA administration		
Proper technique of LA administration		
Safe handling of the needles and LA syringes		
Proper patient positioning		
Paying attention to psychological aspects of LA administration		

8= A 6-7= B 4-5= C <4= D

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Final mark
A B C D

Competencies for 4th year dental students
Effective administration of LA (regional infiltration)

Student name:

Date:

Guidelines:

- 1- Indicated cases for the competency can be any maxillary tooth planned for restorative work.
- 2- Proper knowledge of the anesthetic material composition and amount is expected.
- 3- Medical conditions affecting LA administration should be known.
- 4- Thorough knowledge of the oral anatomy related to the site of LA administration is expected.
- 5- Safe handling of the needles and LA syringes is expected.
- 6- Proper patient positioning and paying attention to psychological aspects of LA administration.

Procedure:

- 1- The selected case should be pre-approved for the restorative work intended.
- 2- Inform your supervisor of your intent to perform the competency.
- 3- Administer the LA under the supervisor's observation.
- 4- The supervisor will evaluate the competency according to the criteria on the following page.
- 5- Be prepared to answer your supervisor's questions that pertain to the procedure to insure clinical competency.
- 6- Obtain your supervisor's signature on your logbook and on the register in case of successful completion of the competency.
- 7- Continue the restorative work for the patient.

Supervisor: Please rate this competency for each of the following categories in the table. **An A or B grade will be considered Competent, C or D will be considered Incompetent.**

Please check either one of the following when the evaluation is completed:

Competent

Incompetent

Stamp/Signature:

Tooth anesthetized:.....

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory.

Also having 0-3 mark below then the task is considered unsatisfactory.

Fault		Fault	
Ineffective anesthesia		Unsafe or careless handling of sharps	
Anesthetic overdose		Failure to inform the patient about the procedure	

Pass categories:

	Adequate (1)	Inadequate/inappropriate (0)
knowledge of the anesthetic material composition and amount		
Knowing medical conditions affecting LA administration		
Thorough knowledge of the oral anatomy related to the site of LA administration		
Proper technique of LA administration		
Safe handling of the needles and LA syringes		
Proper patient positioning		
Paying attention to psychological aspects of LA administration		

7= A 5-6= B 4= C <4= D

Final mark
A B C D

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Competencies for 4th year dental students
Multiple isolation with rubber dam (RD)

Student name: **Date:**

Guidelines:

1. Any tooth to be restored with composite or amalgam is indicated for this competency. It is up to the student to select the case for performing RD isolation competency.
2. Isolation of canines and incisors: the RD should be placed from the premolar on the side of the canine/incisor and extended to the opposite canine.
3. Isolation of premolars: the RD should be extended to the midline of the incisors.
4. Isolation of molars: the RD should be extended to the midline of the incisors.
5. Rubber dam placement in situations where there are missing teeth should be determined by the faculty who will be evaluating the competency.

Procedure:

1. Select the case you want to perform this competency on.
2. Inform your supervisor. The supervisor should approve the appropriateness of the case.
3. Complete the procedure.
4. Call the supervisor again and be prepared to be criticized and answer questions related to the procedure.
5. The supervisor will evaluate the competency at the spot. If the student deemed incompetent, the competency can be redone for the same case or on another case.
6. Continue delivering care for the patient.

Supervisor: Please rate this competency for each of the following categories in the table. **An A or B grade will be considered Competent, C or D will be considered Incompetent.**

Please check either one of the following when the evaluation is completed:

Competent

Incompetent

Stamp/Signature:

Teeth isolated:.....

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory. Also having 0-4 mark below then the task is considered unsatisfactory.

Fault		Fault	
Wrong teeth isolated		Severe injury to patient's soft tissues	
Leakage of the saliva through the dam		Rubber dam interferes with patient's breathing	

Pass categories:

	Adequate (1)	Inadequate/inappropriate (0)
Proper clamp selection		
Clamp properly adapted and stable		
Appropriate teeth isolated		
Hole position on dam coincides with arch form		
Proper hole size with no gaps between the holes		
Proper frame application		
Proper tissue management		
Preservation of the dam material with no nicks or tears		
Dam placed below proximal contacts and properly inverted		
Complete isolation and accessibility achieved		

10= A

7-9= B

5-6= C

<5=D

Final mark

A B C D

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

**Competencies for 4th year dental students
Glass Ionomer filling**

Student name:..... **Date:**.....

Guidelines:

Indicated cases can be any new case that needs glass ionomer filling.

Procedure:

- 1- Select the case you plan on performing this competency on and seat the patient.
- 2- Fill in all the history and treatment planning sheets in your log book and perform what you think is necessary as a diagnostic aid.
- 3- Inform your supervisor and obtain an approval to start the competency.
- 4- Perform the Procedure.
- 5- Be prepared to answer your supervisor's questions that pertain to the procedure to insure clinical competency.
- 6- Obtain your supervisor's signature on your logbook and on the register in case of successful completion of the competency.

Supervisor: Please check either one of the following when the evaluation is completed. An **A or B** grade will be considered **Competent**, **C or D** will be considered **Incompetent**.

Competent

Incompetent

Stamp/Signature:

Glass ionomer restorations

tooth#:

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory. Also having 0-3 mark below then the task is considered unsatisfactory.

Fault		Fault	
Pulp exposure		Presence of gross caries at final stage	
Irreversible loss of resistance/retention form		Contamination with blood/saliva which prevented adequate bonding	
Gross overhang /roughness of glass ionomer		Lack of solid theoretical knowledge related to the clinical procedure	

Cavity:

	Adequate (1)	Inadequate/Inappropriate (0)
Outline form		
Retention/resistance form		
Removal of caries		
Cavity depth		

Filling:

	Adequate (1)	Inadequate/Inappropriate (0)
Moisture control/bonding technique		
Morphology		
Colour match		
Finishing/polishing		

8=A

6-7=B

4-5=C

<4=D

Final mark

A B C D

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Competencies for 4th year dental students Taking and Interpreting Radiographs

Student name:..... **Date:**.....

Guidelines:

1. Any Restorative case which needs **Bitewing AND Periapical radiographs** can be used for this competency

Procedure:

2. Select the case you plan on performing this competency on and seat the patient.
3. Inform your supervisor and obtain an approval to start the competency.
4. Approach your course co-ordinator in the Oral diagnosis/Radiography course to discuss your radiographic report and kindly ask for his/her signature for this competency.
5. Discuss your report with your supervisor at the Conservative department and answer their related questions.
6. Obtain your supervisor's signature on your logbook and on the register in case of successful completion of the competency.

Supervisor: Please check either one of the following when the evaluation is completed.

Competent

Incompetent

Stamp/Signature:

Competencies for 4th year dental students Matrix Placement for amalgam

Student name: **Date:**

Guidelines:

1. Indicated cases can be any new case that needs an amalgam restoration.
2. Student should perform thorough history taking, extra-oral and intra-oral exams, dental charting, take any necessary radiographs and perform mandatory diagnostic tests.
3. Supervisors will evaluate the student's Matrix band placement according the following guidelines.

Procedure:

1. Select the case you plan on performing this competency on and seat the patient.
2. Inform your supervisor and obtain an approval to start the competency.
3. Fill in all the history and treatment planning sheets in your log book and perform what you think is necessary as a diagnostic aid.
4. Perform the Procedure
5. Call your supervisor to check your matrix band placement.
6. Be prepared to answer your supervisor's questions that pertain to the procedure to insure clinical competency.
7. Obtain your supervisor's signature on your logbook and on the register in case of successful completion of the competency.

Supervisor: Please check either one of the following when the evaluation is completed

Competent

Incompetent

Stamp/Signature:

Competencies for 4th year dental students Evaluation of Mandibular movements and occlusion

Student name: **Date:**

Guidelines:

1. Indicated cases can be any new case that needs restorative work
2. Competency should be performed before any procedure is performed for the patient.
3. Student should perform thorough history taking, extra-oral and intra-oral exams, dental charting, take any necessary radiographs and perform mandatory diagnostic tests.
4. Supervisors will evaluate the student's competency in treatment planning according to the guidelines on the following page.

Procedure:

1. Select the case you plan on performing this competency on and seat the patient.
2. Inform your supervisor and obtain an approval to start the competency.
3. Fill in all the history and treatment planning sheets in your log book and perform what you think is necessary as a diagnostic aid.
4. Perform the Procedure.
5. Call your supervisor to check the case.
6. Be prepared to answer your supervisor's questions that pertain to the procedure to insure clinical competency.
7. Obtain your supervisor's signature on your logbook and on the register in case of successful completion of the competency.

Supervisor: Please check either one of the following when the evaluation is completed. An **A or B** grade will be considered **Competent**, **C or D** will be considered **Incompetent**.

Competent

Incompetent

Stamp/Signature:

Mandibular movement and occlusion

	Adequate (1)	Inadequate/Inappropriate (0)
Muscle of mastication		
Range of vertical movements		
Range of horizontal movements		
TMJ		
Note of any deviation		
Static occlusal relationship <ul style="list-style-type: none">• Incisal• Canine• Molar		
Dynamic occlusal relationship <ul style="list-style-type: none">• ICP=RCP?• Canine/ group function• Occlusal interferences		

7=A

5-6=B

4=C

<4=D

Final mark

A B C D

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Competencies for 4th year dental students
Shade matching for restorations

Student name: **Date:**

Guidelines:

1. Indicated cases for this competency can be shade matching for any anterior composite restoration.
2. Thorough knowledge of the concepts of shade matching is expected (Hue, Chroma and Value...).
3. Proper use of the shade guide.
4. Take environmental and auxiliary factors in shade selection into consideration.

Procedure:

1. The selected case should be pre-approved for the composite work intended.
2. Inform your supervisor of your intent to perform the competency.
3. Use the shade guide to select the shade.
4. Call your supervisor and explain your choice of the shade.
5. Be prepared to answer questions related to the shade matching procedure.
6. The supervisor will evaluate the competency according to the criteria on the following page.
7. Continue the restorative work for the patient.

Supervisor: Please rate this competency for each of the following categories in the table.

Please check either one of the following when the evaluation is completed:

Competent

Incompetent

Stamp/Signature:

Shade matching evaluation criteria

	Adequate (1)	Inadequate/inappropriate (0)
Hue choice		
Chroma and value choice		
Varying shade according to area of the tooth restored		
Matching shade for teeth in the hydrated state		
Proper technique and patient positioning for shade matching		
Knowledge of the theoretical basis for shade matching technique		

5-6= competent

<5= incompetent

Competencies for 4th year dental students Treatment planning (1)

Student name: **Date:**

Guidelines:

1. Indicated cases can be any new case that needs restorative work.
2. Competency should be performed before any procedure is performed for the patient.
- 3. At least 3 teeth should need restorative work in the case.**
4. Student should perform thorough history taking, extra-oral and intra-oral exams, dental charting, take any necessary radiographs and perform mandatory diagnostic tests.
5. Supervisors will evaluate the student's competency in treatment planning according to the guidelines on the following page.

Procedure:

1. Select the case you plan on performing this competency on and seat the patient.
2. Inform your supervisor and obtain an approval to start the competency.
3. Fill in all the history and treatment planning sheets in your log book and perform what you think is necessary as a diagnostic aid.
4. Discuss with the patient your findings, treatment options, advantages and disadvantages of each, prognosis and risks of doing or not doing the treatment.
5. Call your supervisor and present the case.
6. Be prepared to answer any question related to the case and your clinical examination techniques.

Supervisor: Please check either one of the following when the evaluation is completed. **An A or B** grade will be considered **Competent**, **C or D** will be considered **Incompetent**.

Competent

Incompetent

Stamp/Signature:

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory. Also having 0-8 mark below then the task is considered unsatisfactory.

Fault		Fault	
Failure to address chief complaint		Critical information missing	
Failure to report important medical problems and their implications		Patient does not understand the findings and treatments recommended	

Pass categories:

	Adequate (1)	Inadequate/inappropriate (0)
Complete medical history and knowledge of its implications		
Complete dental and social history and their implications		
Complete extraoral examination		
Complete intraoral examination		
Neatly completed history and charting sheets		
Proper use of auxiliary diagnostic tools when needed		
Proper selection of radiographs needed		
Good quality radiographs		
Accurate interpretation of radiographs		
Evaluation of treatment prognosis		
Proper discussion of treatment options, objectives and phasing		
Communication with the patient		
Patient understands treatment plan and all his/her questions were answered		
Further consultation requested when needed		
Comprehensive evaluation for the case		
Informed consent obtained		

16= A 12-15= B 9-11= C <9= D

Final mark
A B C D

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Competencies for 4th year dental students Treatment planning (2)

Student name:.....

Date:.....

Guidelines:

1. Indicated cases can be any new case that needs restorative work.
2. Competency should be performed before any procedure is performed for the patient.
- 3. At least 3 teeth should need restorative work in the case.**
4. Student should perform thorough history taking, extra-oral and intra-oral exams, dental charting, take any necessary radiographs and perform mandatory diagnostic tests.
5. Supervisors will evaluate the student's competency in treatment planning according the guidelines on the following page.

Procedure:

1. Select the case you plan on performing this competency on and seat the patient.
2. Inform your supervisor and obtain an approval to start the competency.
3. Fill in all the history and treatment planning sheets in your log book and perform what you think is necessary as a diagnostic aid.
4. Discuss with the patient your findings, treatment options, advantages and disadvantages of each, prognosis and risks of doing or not doing the treatment.
5. Call your supervisor and present the case.
6. Be prepared to answer any question related to the case and your clinical examination techniques.

Supervisor: Please check either one of the following when the evaluation is completed. An **A or B** grade will be considered **Competent**, **C or D** will be considered **Incompetent**.

Competent

Incompetent

Stamp/Signature:

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory. Also having 0-8 mark below then the task is considered unsatisfactory.

Fault		Fault	
Failure to address chief complaint		Critical information missing	
Failure to report important medical problems and their implications		Patient does not understand the findings and treatments recommended	

Pass categories:

	Adequate (1)	Inadequate/inappropriate (0)
Complete medical history and knowledge of its implications		
Complete dental and social history and their implications		
Complete extraoral examination		
Complete intraoral examination		
Neatly completed history and charting sheets		
Proper use of auxiliary diagnostic tools when needed		
Proper selection of radiographs needed		
Good quality radiographs		
Accurate interpretation of radiographs		
Evaluation of treatment prognosis		
Proper discussion of treatment options, objectives and phasing		
Communication with the patient		
Patient understands treatment plan and all his/her questions were answered		
Further consultation requested when needed		
Comprehensive evaluation for the case		
Informed consent obtained		

16= A 12-15= B 9-11= C <9= D

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Final mark

A B C D

Competencies for 4th year dental students
Access cavity to anterior tooth

Student name: **Date:**

Guidelines:

- 1- Any anterior tooth to be root canal treated is indicated for this competency. It is up to the student to select the case for performing this competency.
- 2- Incisors and canines can be selected for this competency.
- 3- Student should know the principles and objectives of access cavity preparation.
- 4- Student should prepare all the necessary armamentarium.
- 5- Student should be prepared to answer any question related to this competency.

Procedure:

- 1- Select the case you want to perform this competency on.
- 2- Inform your supervisor. The supervisor should approve the appropriateness of the case.
- 3- Complete the procedure.
- 4- Call the supervisor again and be prepared to be criticized and answer questions related to the procedure.
- 5- The supervisor will evaluate the competency at the spot. If the student deemed incompetent, the competency can be redone for the same case or on another case.
- 6- Continue delivering care for the patient.

Supervisor: Please rate this competency for each of the following categories in the table. **An A or B grade will be considered Competent, C or D will be considered Incompetent.**

Please check either one of the following when the evaluation is completed:

Competent

Incompetent

Stamp/Signature:

Tooth isolated:.....

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory. Also having 0-4 mark below then the task is considered unsatisfactory.

Fault		Fault	
Severe destruction of tooth structure		Perforations	
Failure to totally remove caries			

Pass categories:

	Adequate	Inadequate/inappropriate
Straight line access		
Unroofing of the pulp chamber		
Conservation of tooth structure		
Proper access shape		
Proper access location		
Proper access size		
Identification of all canal orifices		

Final mark

A B C D

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Competencies for 4th year dental students
Access cavity to premolar teeth

Student name: **Date:**

Guidelines:

- 1- Premolar tooth to be root canal treated is indicated for this competency. It is up to the student to select the case for performing this competency.
- 2- Student should know the principles and objectives of access cavity preparation.
- 3- Student should prepare all the necessary armamentarium.
- 4- Student should be prepared to answer any question related to this competency.

Procedure:

- 1- Select the case you want to perform this competency on.
- 2- Inform your supervisor. The supervisor should approve the appropriateness of the case
- 3- Complete the procedure.
- 4- Call the supervisor again and be prepared to be criticized and answer questions related to the procedure.
- 5- The supervisor will evaluate the competency at the spot. If the student deemed incompetent, the competency can be redone for the same case or on another case.
- 6- Continue delivering care for the patient.

Supervisor: Please rate this competency for each of the following categories in the table. **An A or B grade will be considered Competent, C or D will be considered Incompetent.**

Please check either one of the following when the evaluation is completed:

Competent

Incompetent

Stamp/Signature:

Tooth isolated:.....

Fail category: if any of the following boxes is ticked then this task will be unsatisfactory.

Fault		Fault	
Severe destruction of tooth structure		Perforations	
Failure to totally remove caries			

Pass categories:

	Adequate	Inadequate
Straight line access		
Unroofing of the pulp chamber		
Conservation of tooth structure		
Proper access shape		
Proper access location		
Proper access size		
Identification of all canal orifices		

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Final mark
A B C D

Competencies for 4th year dental students
Single tooth isolation with rubber dam (RD)

Student name: **Date:**

Guidelines:

- 1- Any tooth to be root canal treated is indicated for this competency. It is up to the student to select the case for performing RD isolation competency.
- 2- Isolation of incisors, canines and premolars can be selected for this competency.
- 3- Student should know the principle behind RD placement.
- 4- Student should prepare all the necessary armamentarium.
- 5- Student should be prepared to answer any question related to this competency.

Procedure:

- 1- Select the case you want to perform this competency on.
- 2- Inform your supervisor. The supervisor should approve the appropriateness of the case.
- 3- Complete the procedure.
- 4- Call the supervisor again and be prepared to be criticized and answer questions related to the procedure.
- 5- The supervisor will evaluate the competency at the spot. If the student deemed incompetent, the competency can be redone for the same case or on another case.
- 6- Continue delivering care for the patient.

Supervisor: Please rate this competency for each of the following categories in the table. **An A or B grade will be considered Competent, C or D will be considered Incompetent.**

Please check either one of the following when the evaluation is completed:

Competent

Incompetent

Stamp/Signature:

Tooth isolated:.....

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory. Also having 0-4 mark below then the task is considered unsatisfactory.

Fault		Fault	
Wrong tooth isolated		Severe injury to patient's soft tissues	
Leakage of the saliva through the dam		Rubber dam interferes with patient's breathing	

Pass categories:

	Adequate	Inadequate/inappropriate
Proper clamp selection		
Clamp properly adapted and stable		
Hole position on dam coincides with arch form		
Proper hole size		
Proper frame application		
Proper tissue management		
Preservation of the dam material with no nicks or tears		
Dam placed below proximal contacts and properly inverted		
Complete isolation and accessibility achieved		

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Final mark

A B C D

Competencies for 4th year dental students
Use of apex locator in working length determination

Student name: **Date:**

Guidelines:

- 1- Incisor, canine or premolar tooth under root canal treatment can be selected for this competency. It is up to the student to select the case for performing this competency.
- 2- Student should know the definition of working length.
- 3- Student should know apical anatomy and differentiate between all important anatomical landmarks (e.g. apical constriction, minor foramen and major foramen).
- 4- Students should know different methods of working length determination.
- 5- Student should know the importance of working length determination in endodontic treatment.
- 6- Student should know the principle behind apex locators and the use of apex locators in working length determination.
- 7- Student should prepare all the necessary armamentarium.
- 8- Student should be prepared to answer any question related to this competency.

Procedure:

- 1- Select the case you want to perform this competency on.
- 2- Inform your supervisor. The supervisor should approve the appropriateness of the case.
- 3- Complete the procedure.
- 4- Call the supervisor again and be prepared to be criticized and answer questions related to the procedure.
- 5- The supervisor will evaluate the competency at the spot. If the student deemed incompetent, the competency can be redone for the same case or on another case.
- 6- Continue delivering care for the patient.

Supervisor: A or B grade will be considered Competent, C or D will be considered Incompetent.

Competent

Incompetent

Stamp/Signature:

Competencies for 4th year dental students
Use of radiographs in working length determination

Student name:..... **Date:**.....**Tooth selected:**.....

Guidelines:

- 1- Incisor, canine or premolar tooth under root canal treatment can be selected for this competency. It is up to the student to select the case for performing this competency.
- 2- Student should know the definition of working length.
- 3- Student should know apical anatomy and differentiate between all important anatomical landmarks (e.g. apical constriction, minor foramen and major foramen).
- 4- Students should know different methods of working length determination.
- 5- Student should know the importance of working length determination in endodontic treatment.
- 6- Student should know the advantages and disadvantages (limitations) of the use of radiographs in working length determination.
- 7- Student should prepare all the necessary armamentarium for parallel technique (use X. ray beaming devices under RD isolation).
- 8- Student should be able to process and interpret working length radiograph.
- 9- Student should be able to do the necessary adjustment and decide whether a retake is necessary or not.
- 10- Student should be prepared to answer any question related to this competency.

Procedure:

- 1- Select the case you want to perform this competency on.
- 2- Inform your supervisor. The supervisor should approve the appropriateness of the case
- 3- Complete the procedure.
- 4- Call the supervisor again and be prepared to be criticized and answer questions related to the procedure.
- 5- The supervisor will evaluate the competency at the spot. If the student deemed incompetent, the competency can be redone for the same case or on another case.
- 6- Continue delivering care for the patient.

Supervisor: Please rate this competency for each of the following categories in the table. **An A or B grade will be considered Competent, C or D will be considered Incompetent.**

Competent

Incompetent

Stamp/Signature:

Competencies for 4th year dental students Root canal obturation

Student name: **Date:** **Tooth selected:**

Guidelines:

- 1- Incisor, canine or premolar tooth under root canal treatment can be selected for this competency. It is up to the student to select the case for performing this competency.
- 2- Student should know the principle behind root canal filling.
- 3- Students should be able to self assess the quality of her/his own work based on a good quality radiograph.
- 4- Student should prepare all the necessary armamentarium.
- 5- Student should be prepared to answer any question related to this competency (technique, instruments and materials).

Procedure:

- 1- Select the case you want to perform this competency on.
- 2- Inform your supervisor. The supervisor should approve the appropriateness of the case
- 3- Complete the procedure.
- 4- Call the supervisor again and be prepared to be criticized and answer questions related to the procedure.
- 5- The supervisor will evaluate the competency at the spot. If the student deemed incompetent, the competency can be redone for the same case or on another case.
- 6- Continue delivering care for the patient.

Supervisor: Please rate this competency for each of the following categories in the table. An **A or B** grade will be considered **Competent**, **C or D** will be considered **Incompetent**.

Please check either one of the following when the evaluation is completed:

Competent

Incompetent

Stamp/Signature:

**Competencies for 4th year dental students
Decision making and referrals (ENDO)**

Student name:..... **Date:**.....

Guidelines:

- 1- Indicated cases can be **any new case that needs endodontic treatment**.
- 2- Competency should be performed before any procedure is performed for the patient.
- 3- Student should perform thorough history taking, extra-oral and intra-oral exams, dental charting, take any necessary radiographs and perform mandatory diagnostic tests.
- 4- Supervisors will evaluate the student's competency of decision making and referrals according to the guidelines on the following page.

Procedure:

- 1- Select the case you plan on performing this competency on and seat the patient.
- 2- Inform your supervisor and obtain an approval to start the competency.
- 3- Fill in all the history, treatment planning sheets and case classification according to difficulty and risk sheet in your log book and perform what you think is necessary as a diagnostic aid.
- 4- Discuss with the patient your findings, treatment options, advantages and disadvantages of each, prognosis and risks of doing or not doing the treatment.
- 5- Call your supervisor and present the case.
- 6- Be prepared to answer any question related to the case and your clinical examination techniques.

Supervisor: Please check either one of the following when the evaluation is completed. An **A or B** grade will be considered **Competent**, **C or D** will be considered **Incompetent**.

Competent

Incompetent

Stamp/Signature:

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory.

Fault		Fault	
Failure to address chief complaint		Critical information missing	
Failure to report important medical problems and their implications		Patient does not understand the findings and treatments recommended	

Pass categories:

	Adequate	Inadequate
Complete medical history and knowledge of its implications		
Complete dental and social history and their implications		
Complete extra oral examination		
Complete intraoral examination		
Neatly completed history , charting and case classification sheets.		
Proper use of auxiliary diagnostic tools when needed		
Proper discussion of treatment options		
Communication with the patient, student can discuss treatment options with the patient and answer all his/her questions		
Decision making and referral if needed		

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Final mark

A B C D

Competencies for 4th year dental students Decision making and referrals (CONS)

Student name:..... **Date:**.....

Guidelines:

- 1- Indicated cases can be **any new case that needs referral to a specialist i.e. the case is beyond your capabilities as a fourth year dental student.**
- 2- Referrals should be done to a specialist in either: fixed prosthodontics, oral surgery, oral medicine, periodontics, or orthodontics.
- 3- Competency should be performed before any procedure is performed for the patient.
- 4- Student should perform thorough history taking, extra-oral and intra-oral exams, dental charting, take any necessary radiographs and perform mandatory diagnostic tests.
- 5- Supervisors will evaluate the student's competency of decision making and referrals according to the guidelines on the following page.

Procedure:

- 1- Select the case you plan on performing this competency on and seat the patient.
- 2- Inform your supervisor and obtain an approval to start the competency.
- 3- Fill in all the history, treatment planning sheets and case classification according to difficulty and risk sheet in your log book and perform what you think is necessary as a diagnostic aid.
- 4- Discuss with the patient your findings, treatment options, advantages and disadvantages of each, prognosis and risks of doing or not doing the treatment.
- 5- **Write a referral letter.**
- 6- Call your supervisor and present the case.
- 7- Be prepared to answer any question related to the case and your clinical examination techniques.

Supervisor: Please check either one of the following when the evaluation is completed. **An A or B** grade will be considered **Competent**, **C or D** will be considered **Incompetent**.

Competent

Incompetent

Stamp/Signature:

Fail category (0): if any of the following boxes is ticked then this task will be unsatisfactory.

Fault		Fault	
Failure to address chief complaint		Critical information missing	
Failure to report important medical problems and their implications		Patient does not understand the findings and treatments recommended	

Pass categories:

	Adequate	Inadequate
Complete medical history and knowledge of its implications		
Complete dental and social history and their implications		
Complete extra oral examination		
Complete intraoral examination		
Neatly completed history , charting and case classification sheets.		
Proper use of auxiliary diagnostic tools when needed		
Proper discussion of treatment options		
Communication with the patient, student can discuss treatment options with the patient and answer all his/her questions		
Decision making and referral if needed		

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Final mark

A B C D

**Competencies for 4th year dental students
Four-handed dentistry (assistant side)**

Student name:..... **Date:**.....

Guidelines:

1. You need to inform your supervisor about this competency before being granted access to the clinical area.
2. For this competency your role is only assisting your **5th year** colleague. No patient contact is allowed for this competency.

Supervisor: Please check either one of the following when the evaluation is completed. An **A or B** grade will be considered **Competent**, **C or D** will be considered **Incompetent**.

Competent

Incompetent

Stamp/Signature:

Four-handed dentistry (assistant side)

	Adequate	Inadequate/Inappropriate
Introducing yourself to the patient		
Proper observance of cross infection control		
Proper handling of instruments		
Proper mixing of restorative materials		
Correct posture		

A=Outstanding, B=Competent, C=Pass, D=Unsatisfactory

Final mark

A B C D