

**NEW YORK CITY COLLEGE OF TECHNOLOGY
THE CITY UNIVERSITY OF NEW YORK**

DEPARTMENT: RESTORATIVE DENTISTRY DEPARTMENT

COURSE CODE: RESD 1211/DL 211

COURSE TITLE: COMPLETE DENTURES II

COURSE DESCRIPTION: A study of the principles and practice of processing complete dentures in acrylic. Topics for lecture and laboratory procedures include postdams, insertion of reliefs, waxing and contouring, flasking, wax elimination, mixing of acrylic resin for packing into the denture flasks, packing of acrylic into the denture flasks, processing/curing the denture acrylic, recovery, selective grinding and finishing and polishing of complete dentures. Techniques for denture repairs and relines will also be stressed with proper handling and treatment to prevent cross contamination.

Instructor:	Prof. Joseph M. Caputo	Prof. Esther Cuya
Office:	P 409	P409
Phone:	(718) 260-5137	(718) 260-5137
Office hours:	Tuesday 12:00-1:00	
E-mail:	jcaputo@citytech.cuny.edu	Ecuya@citytech.cuny.edu
Fax:	(718)254-8557	

CLASS HOURS & CREDITS: 6 laboratory hours, 1 lecture hour per week, 3 credits

NUMBER OF WEEKS: 15 Weeks

CURRICULUM LEVEL: Second semester

PREREQUISITE: RESD 1111

TEXTBOOKS:

Dental Laboratory Technology –
Basic Sciences, Removable
Prostodontics, and Orthodontics;
Air Force Pamphlet, 47-103, Vol. I;
15 November 2005.

REFERENCES:

Dental Laboratory Procedures:
Complete Dentures, Morrow, Rudd,
Eissmann, C.V. Mosby Co., St. Louis, Mo., 1980
Dental Laboratory Technology
Theory and Practice, Richard
Blakeslee, C.V. Mosby Co., St. Louis, Mo.

Updated: 01/12

AUDIO/VISUAL TECHNICAL
TAPES:

Practical Complete Dentures Reline -
H.S.R.C. .
Finishing and Polishing Dental
Restorations –Library.
Complete Dentures Part II & III – Library.
Complete Dentures Part IV - Refitting
and Relining –Library.
Semi-adjustable Articulators in
Dentistry –Library.
Denture Base Esthetics –Library.
Final Impressions - Complete Dentures -
H.S.R.C.
Preliminary Impressions - Complete
Dentures – Library.
Denture Base Esthetics - H.S.R.C. .
Lab Procedures - Complete Dentures 1 -
H.S.R.C. .
Lab Procedures - Complete Dentures 2 -
H.S.R.C. .
Recording Centric Relation - H.S.R.C. .
Recording Centric Relation - Graphic
Method - part 2 - H.S.R.C. .
Complete Dentures, University of Iowa
College of Dentistry, n.d. 4 Videocassettes
(Videocassette 1135).
The Face-Bow Transfers and Mounting
of Cases: Whip - Mix Model 8645.
Quick Mount Face-Bow and Model 8500
Articulator. Whip Mix, 11987
(Videocassettes 1153).

Mechanics of Dentures. Linden Street
Prosthetics, n.d. 3 Videocassettes
(Videocassette 1156).

COURSE REQUIREMENTS: Standard College and department
attendance and grade policies.

ACADEMIC INTEGRITY: New York City College of Technology Policy
on Academic Integrity Students and all others
who work with information, ideas, texts,
images, music, inventions, and other
intellectual property owe their audience and
sources accuracy and honesty in using,
crediting, and citing sources. As a community
of intellectual and professional workers, the
College recognizes its responsibility for
providing instruction in information literacy
and academic integrity, offering models of
good practice, and responding vigilantly and
appropriately to infractions of academic
integrity. Accordingly, academic dishonesty is
prohibited in The City University of New York
and at New York City College of Technology
and is punishable by penalties, including failing
grades, suspension, and expulsion. The
complete text of the College policy on
Academic Integrity may be found in the
catalog.

Cheating is the unauthorized use or attempted
use of material, information, notes, study aids,
devices or communication during an academic
exercise. Copying from another student during
an examination or allowing another to copy
your work.

Cheating will not be tolerated during quizzes or
exams, communication with anyone other than
the instructor will be considered cheating. If
you have a question during an examination
quietly raise your hand and the instructor will
come to your desk. There may be more than
one version of an examination; the questions of

the examinations will be the same but in different order.

Students are responsible for completing their own laboratory projects, allowing others to complete your laboratory project is not permitted. Each student should clearly identify all work.

Students are required to take notes during demonstrations of laboratory procedures. They will be randomly called upon or scheduled during the lecture class to give a presentation on their laboratory notes.

All students without exception are responsible for cleaning up the laboratory at the end of class. Not to participate can affect their final grade in the course by five points.

OUTCOMES ASSESSMENT:	Laboratory: Laboratory Projects	60%
	Lecture: Quiz	10%
	Midterm Exam	15%
	Final Exam	<u>15%</u>
		100%

Letter Grade

A = 93-100%

A- = 90-92.9%

B+ = 87-89.9%

B = 83-86.9%

B- = 80-82.9

C+ = 77-79.9%

C = 70-76.9%

D = 60-69.9%

F = 59.9% and below

ATTENDANCE POLICY:

Any student who has exceeded the 10% absence/lateness policy will receive a grade reduction for that portion of the course, to include lecture and/or lab. Please refer to the policies of the college on student attendance.

COORDINATOR:

Avis Smith, CDT, MS, MBA

GOALS & OBJECTIVES
FOR RESD 211:

Upon successful completion of the course each student should be able to:

1. List and describe the laboratory procedures for processing complete dentures in acrylic.
2. Insert reliefs, engrave the posterior palatal seal, and contour complete dentures.
3. Flask, pack and process maxillary and mandibular full dentures.
4. Deflask and remount the full dentures.
5. Correct processing errors by selective spot grinding and milling.
6. Finish and polish the maxillary and mandibular full dentures.
7. Describe the clinical and laboratory procedures for relining a complete denture.
8. Reline full dentures.
9. Explain the procedure for repairing compound fractures and tooth repairs.
10. Describe the principles and methods of preventing disease transmission and cross contamination during the fabrication of full dentures, relining, and repairs.

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RESD 211 COMPLETE DENTURES II
EVALUATION CRITERIA FOR PROCESSING RELINING AND REPAIRING A
COMPLETE DENTURE

POSTDAM & RELIEF	5 pts
WAX-UP/CONTOURING	10 pts
FLASKING	10 pts
PACKING	5 pts
RECOVERY	5 pts
SELECTIVE GRINDING	15 pts
FINISH AND POLISH	20 pts
RELINES	20 pts
REPAIRS	5 pts
NEATNESS AND CLEANLINESS	<u>5 pts</u>
	100 PTS

GRADING CRITERIA 100 POINTS:

- A. Posterior palatal seal (5 points)
 - 1. Correct engraving (1-2mm deep, 2-4 mm wide, conform to proper anatomical areas): 3 pts
 - 2. Correct extension (hamular notches and vibrating line): 2 pts

- B. Wax-up and final contouring: (10 points)
 - 1. Thickness of the trial base (2-3mm): 2 pts
 - 2. Tooth exposure at the cemento enamel junction (not over exposing the necks of the teeth): 3 pts
 - 3. Correct filled and sealed the sulci/boarders of the cast: 1 pt
 - 4. Correct extension and convexity of the inter-dental papilla (no concavities to create food traps): 4 pts

C. Flasking: (10 points)

1. Correct centering (5mm between the cast and the sides of the flask and 10 mm clearance between the teeth and the upper lid of the flask): 5 pt
2. Smooth stone surface (no undercuts to cause breakage when opening during the boilout): 5 pts

D. Packing: (5 points)

1. Correct use of mixing ratio of monomer and polymer (packing when acrylic is in a doughy/non stringy state): 3 pts
2. Correct use of pneumatic press, hydraulic press and compensating/transfer press (trial closure 1500 lb/in², final not more than 3500 lb/in²): 2 pts

E. Recovery: (5 points)

1. Denture base should be free of stone: 4 pts
2. Saw cuts should not be present in the denture base resin: 1 pt

F. Finish & Polish: (20 points)

1. Proper finishing and festooning of the dentures non-tissue bearing surface (the dentures should have proper thickness and should not be so thin that you can see through them, or have holes in them): 5 pts
2. Smooth and highly polished and high shined surfaces of the non-tissues bearing surfaces: 5 pts
3. Glossary surface while maintaining anatomical details - a. root eminences, b. interdental papilla and free gingiva of 1mm thick, and round in all directions (means no concavities, which cause food traps): 5 pts
4. Glossy surface while maintaining the width of the peripheral roll: 5 pts

G. Selective grinding: (15 points)

1. Deflasking- without breaking the dentures, and no porosity: 4 pts
2. Laboratory remount - incisal pin should be at no more than 1-1 1/2 mm distance from the incisal table: 1 pt
3. Centric occlusion - incisal pin should touch the incisal table: 1 pt
correct grinding of the fossa or the cusp: 5 pts
4. Working and balancing - the tooth guided lateral paths and the articulator guided paths coincide: 4 pts

H. Relining: (15 points)

1. Bead, boxing and pouring the impression: 4 pts
2. Preparation of the tissue surface (undercuts elimination and butt joint): 6 pts
3. Intact relining surface (free of air bubbles), finish, polish minimum demarcation line: 5 pts

I. Single Tooth Repair: (5 points)

1. Correct tooth alignment position: 3 pts
2. Correct box preparation providing enough room for the tooth: 2 pts

J. Fracture repair: (5 points)

- 1. Correct fracture area preparation rabbit or dove tail channel: 3-4mm wide
1/2 through into the acrylic: 2 pts
- 2. Bevel: 2mm on the tissue side, 3 mm on the polish side: 2 pts
- 3. No air bubbles in the newly added resin: 1 pt

K. Neatness and Cleanliness 5pts

EVALUATION CRITERIA - LECTURE SESSION

QUIZZES	10%
MIDTERM	15%
FINAL EXAM	<u>15%</u>
	40%

Final grade will be the results of grades in the lecture and laboratory. A passing grade of 70% in laboratory and lecture must be achieved.

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RESD 1211 COMPLETE DENTURES - COURSE OUTLINE

- I. PREPARATION OF THE TRIAL DENTURES FOR FLASKING - FOUR LABORATORY SESSIONS, ONE LECTURE HOUR - Air Force Pamphlet, 47-103, Vol. I; 15 November 2005, **Chapter 7**.
- A. Posterior palatal seal - post dam.
 - B. Palatal relief.
 - C. Contouring the buccal and lingual surfaces of the maxillary and mandibular dentures.
- * FOURTH LABORATORY SESSION - COMPLETED TRIAL DENTURE FOR FLASKING DUE FOR EVALUATION
- II. FLASKING THE TRIAL DENTURES AND WAX ELIMINATION - THREE LABORATORY SESSIONS, TWO LECTURE HOURS - Air Force Pamphlet, Chapter 7.
- A. Removing the final casts from the articulator
 - B. Flasking
 - C. Boiling-out
 - D. Application of the tin-foil substitute
- * SEVENTH LABORATORY SESSION - COMPLETED WAX ELIMINATION DUE FOR EVALUATION
- * QUIZ DURING FOURTH LECTURE HOUR
- III. PACKING AND PROCESSING - THREE LABORATORY SESSIONS, TWO LECTURE HOURS - Air Force Pamphlet, Chapter 7.
- A. Mixing the polymer and monomer
 - B. Bench packing
 - C. Trial inspection
 - D. Final inspection
 - E. Processing
- * TENTH LABORATORY SESSION - COMPLETED PACKING AND PROCESSING DUE FOR EVALUATION

- IV. RECOVERY, LABORATORY REMOUNT, SELECTIVE GRINDING AND MILLING FOUR LABORATORY SESSIONS, ONE LECTURE HOUR - Air Force Pamphlet, Chapter 7.
- A. Recovery with the ejector
 - B. Laboratory remount
 - C. Selective grinding
 - D. Milling
- * FOURTEENTH LABORATORY SESSION - COMPLETED SELECTIVE GRINDING AND MILLING DUE FOR EVALUATION
- * MID-SEMESTER EXAMINATION DURING EIGHT LECTURE HOUR
- V. FINISHING THE PROCESSED DENTURES - THREE LABORATORY SESSIONS, ONE LECTURE HOUR - Air Force Pamphlet, Chapter 7.
- A. Trimming the denture flash
 - B. Contouring the denture base
 - C. Polishing
 - D. Stippling
- * SIXTEEN LABORATORY SESSIONS - COMPLETED DENTURES DUE FOR EVALUATION
- VI. RELINING A DENTURE BASE - THREE LABORATORY SESSIONS, ONE LECTURE HOURS - Air Force Pamphlet, Chapter 7.
- A. Beading the impression
 - B. Boxing the impression
 - C. Pouring the final cast
 - D. Hooper duplicator
- * EIGHTEENTH LABORATORY SESSION COMPLETED FINAL CASTS DUE FOR EVALUATION
- VII. FLASKING, PACKING AND PROCESSING FOR RELINING CROSS CONTAMINATION - FIVE LABORATORY SESSIONS, ONE LECTURE HOUR - Air Force Pamphlet, Chapter 7.
- A. Flasking the old denture
 - B. Wax elimination, removing the impression material
 - C. Packing the resin
 - D. Trial and final impression
 - E. cross contamination possibilities
- * TWENTY SECOND LABORATORY SESSION - FLASKING

PACKING AND PROCESSING FOR RELINING DUE FOR
EVALUATION

VIII. RECOVERY, FINISHING AND POLISHING - TWO LABORATORY
SESSIONS, TWO LECTURE HOURS - Air Force Pamphlet, Chapter 7.

- A. Ejector recovery
- B. Flash removal and final trimming
- C. Polishing
- D. Stippling

* TWENTY FIFTH LABORATORY SESSION RELINE DUE FOR
EVALUATION

IX. FRACTURE AND TOOTH REPAIRS, CROSS CONTAMINATION -
THREE LABORATORY SESSIONS, ONE LECTURE HOUR - Air Force
Pamphlet, Chapter 7.

- 1. Assembly of pieces of the fracture repair
- 2. tooth selection
- 3. Indexing
- 4. Repair techniques
- 5. Cross contamination possibilities

* TWENTY EIGHTH LABORATORY SESSION FINISHED DENTURES
DUE FOR EVALUATION

* FINAL EXAM - FIFTEENTH LECTURE HOUR

LECTURE FOR RESD 1211 COMPLETE DENTURES II

I. PALATAL SEAL, PALATAL RELIEF, WAXING AND CONTOURING FOR PROCESSING, ONE LECTURE HOUR

- A. CONDITIONS: Given a lecture, a discussion and reading assignments on the palatal seal, palatal relief, waxing and contouring for processing
- B. PERFORMANCE: The student should be able to:
1. Name the areas for the palatal seal and palatal relief
 2. List the reason for both procedures
 3. Describe the aesthetic and physiological importance of contouring the dentures for flasking
 4. Describe the procedure for contouring the dentures
- C. EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture.

II. FLASKING AND WAX ELIMINATION - TWO LECTURE HOURS

- A. CONDITIONS: Given a lecture, a discussion and reading assignments on flasking and wax elimination procedures
- B. PERFORMANCE: The student should be able to:
1. Differentiate between the maxillary and mandibular flasks
 2. Describe the flasking and wax elimination procedures
 3. The importance of accurate flasking and wax elimination
- C. EXTENT & CRITERIA: With at least 70% accuracy at the end of two lectures.

* FIRST QUIZ DURING FOURTH LECTURE HOUR

III. PACKING AND PROCESSING MAXILLARY AND MANDIBULAR DENTURES - TWO LECTURE HOURS

- A. CONDITIONS: Given a lecture using slides, a discussion and reading assignments on the packing and processing procedures for dentures.
- B. PERFORMANCE: The student should be able to:
1. Describe the packing and processing procedures.
 2. Describe the importance and consequences of not packing properly.
 3. Describe the methods for processing dentures.
- C. EXTENT & CRITERIA: With at least 70% accuracy at the end of two lectures.

IV. RECOVERY LABORATORY REMOUNT, SELECTIVE GRINDING AND MILLING - ONE LECTURE HOUR

- A. CONDITIONS: Given a lecture, a discussion and reading assignments on recovery, remounting and selective grinding
- B. PERFORMANCE: The student should be able to:
1. Describe the recovery procedure and its importance
 2. Describe the reasons and procedures for remounting
 3. Describe the reason and procedures for selective grinding and milling
- C. EXTENT & CRITERIA: With at least 70% accuracy at the end of one lecture hour.

* MID-SEMESTER EXAMINATION - ONE LECTURE HOUR

V. FINISHING AND POLISHING PROCEDURES - ONE LECTURE HOUR

- A. **CONDITIONS:** Given a lecture, a discussion and reading assignments on finishing and polishing of complete dentures with emphasis on restoring natural appearance and maintaining the peripheral roll
- B. **PERFORMANCE:** The student should be able to:
1. Describe the finishing and polishing procedures
 2. Describe the importance of maintaining and protecting the denture border and denture bearing area
- C. **EXTENT & CRITERIA:** With at least 70% accuracy at the end of one lecture hour.

VI. RELINE FOR FULL DENTURES - TWO LECTURE HOUR

- A. **CONDITIONS:** Given a lecture using slides, a discussion and reading assignment on the methods for constructing relines on complete dentures, the matrix techniques with emphasis on maintaining the original occlusion of the teeth
- B. **PERFORMANCE:** The student should be able to:
1. Describe the reason why a reline would be required
 2. Describe a reline
 3. Describe the reasons for maintaining the original occlusion of the teeth
 4. Describe the procedures for constructing relines
- C. **EXTENT & CRITERIA:** With at least 70% accuracy at the end of two lecture.

* SECOND QUIZ DURING TENTH LECTURE HOUR

VII. FLASKING, PACKING, PROCESSING, RECOVERY FINISHING AND POLISHING OF RELINES, - THREE LECTURE HOURS

- A. **CONDITIONS:** Given a lecture, a discussion and reading assignments on flasking, packing, processing, recovering, finishing and polishing relines of complete dentures.
- B. **PERFORMANCE:** The student should be able to:
1. Describe the procedures for flasking, packing and processing relines
 2. Describe the processing, recovery, finishing and polishing techniques
- C. **EXTENT & CRITERIA:** With at least 70% accuracy at the end of three lectures.

VIII. FRACTURE AND TOOTH REPAIR - ONE LECTURE HOUR

- A. **CONDITIONS:** Given a lecture, a discussion and reading assignment on fracture and tooth repairs, including the cold cure and heat cure procedures, replacing a tooth or selecting a new tooth, finishing and polishing, preparation of the denture for both procedures using an impression or a matrix.
- B. **PERFORMANCE:** The student should be able to:
1. Describe the procedure and differences when using the cold cure and heat cure techniques.
 2. Describe the procedures for repairs with and without an impression.
 3. Describe the procedures for selecting a new tooth and replacing the old tooth.
 4. Describe the procedure for processing, finishing and polishing repairs.
- C. **EXTENT & CRITERIA:** With at least 70% accuracy at the end of one lecture hour.

* FINAL EXAM DURING FIFTEENTH LECTURE HOUR - ONE HOUR

INSTRUCTIONAL OBJECTIVES: COMPLETE DENTURES II - RESD 211 LAB

I. PREPARATION OF THE FINAL CASTS FOR FLASKING - FOUR LABORATORY SESSIONS

A. CONDITIONS: Given demonstrations and reading assignments on cast preparation, torus platinus relief, posterior palatal seal, contouring of the maxillary and mandibular complete dentures, and using the following equipment and supplies:

B. EQUIPMENT & SUPPLIES:

1. articulated trial dentures set-up with 1x28 teeth
2. baseplate wax
3. bunsen burner
4. #31 and #7 wax spatulas
5. plaster saw
6. relief metal

C. PERFORMANCE: The student should be able to contour the maxillary and mandibular complete dentures and prepare the cases for processing

D. EXTENT & CRITERIA: The following points will be evaluated in the preparation of the final casts for flasking:

1. Accuracy of the posterior, palatal seal
2. Accurate restoration in wax of the lost tissue surfaces of the oral cavity
3. Maintaining the original vertical dimension

With at least 70% accuracy at the end of four sessions.

II. FLASKING THE MAXILLARY AND MANDIBULAR COMPLETE DENTURES -

TWO LABORATORY SESSIONS

A. **CONDITIONS:** Given demonstrations and reading assignments on the split flask method for flasking the maxillary and mandibular complete dentures and using the following equipment and supplies:

B **EQUIPMENT & SUPPLIES:**

1. maxillary and mandibular waxed complete dentures
2. denture flasks (upper and lower)
3. rubber bowl and plaster spatula
4. wash out brush
5. plaster and artificial stone
6. separating media

C. **PERFORMANCE:** The student should be able to flask the maxillary and mandibular complete dentures.

D. **EXTENT & CRITERIA:** The following points will be judged for flasking the maxillary and mandibular complete dentures:

1. The flasking of the complete dentures without undercuts in plaster
2. The smooth plaster surfaces
3. The centered position of the models in the flask.

With at least 70% accuracy at the end of two sessions.

III. WAX ELIMINATION - ONE LABORATORY SESSION

A. **CONDITIONS:** Given a demonstration and reading assignments on wax elimination and application of tin-foil substitute to the master models, using the following equipment and supplies:

B EQUIPMENT & SUPPLIES:

1. boiling water unit
2. upper and lower flask murphy knife
4. clean towel
5. wax eliminator and/or detergent
6. wash out brush
7. tin-foil substitute
8. camel hair brush

C. PERFORMANCE:

The student should be able to boilout, eliminate the wax from the flasks and apply the tin-foil substitute.

D. EXTENT & CRITERIA:

The following points will be evaluated in the wax elimination process:

1. Elimination of all traces of wax from the flask
2. Application of the tin-foil substitute to the flasked cases

With at least 70% accuracy at the end of one session.

IV. PACKING AND PROCESSING THE MAXILLARY AND MANDIBULAR COMPLET DENTURES-THREE LABORATORY SESSIONS

A. CONDITION:

Given a demonstration and reading assignments on mixing, final packing and curing of the acrylic resin and using the following equipment and supplies:

B EQUIPMENT & SUPPLIES:

1. acrylic monomer and polymer
2. vial and measuring cup
3. mixing jar and spatula
4. plastic sheets
5. upper and lower flasks
6. pneumatic press
7. compensating press
8. electric curing unit

C. PERFORMANCE:

The student should be able to mix,

trial pack, final pack and cure
the acrylic resin for the complete
dentures:

1. mixing of the acrylic
2. the trial and final packing
3. the curing of the thermoplastic
acrylic
4. absence of porosity

With at least 70% accuracy at the
end of three sessions.

V. RECOVERY, LABORATORY REMOUNTING, SELECTIVE GRINDING AND MILLING - FOUR LABORATORY SESSIONS

A. CONDITIONS: Given demonstrations and reading assignments on recovery, laboratory remounting, selective grinding and milling, and utilizing the following equipment and supplies:

B EQUIPMENT & SUPPLIES:

1. flask with cured dentures
2. flask ejector
3. processed dentures and their final casts
4. semi-adjustable articulator
5. articulating paper
6. dental hand piece
7. suitable stones
8. milling paste

C. PERFORMANCE: The student should be able to recover and remount the casts and the dentures on the semi-adjustable articulator and perform the selective grinding and milling to restore the previously indicated vertical dimension and balance

D. EXTENT & CRITERIA: The following points will be evaluated for the recovery, laboratory remounting, selective grinding and milling:

1. recovery of the dentures without damage to the denture bases
2. remounting on the articulator
3. selective grinding

With at least 70% accuracy at the end of four sessions

VI. FINISHING THE MAXILLARY AND MANDIBULAR COMPLETE DENTURES - ONE LABORATORY SESSIONS

A. CONDITIONS: Given demonstrations and reading assignments on shell blasting, trimming of excess acrylic and carving and contouring of simulated tissue surfaces and using the following equipment and supplies:

B EQUIPMENT & SUPPLIES:

1. bench lathe
2. chuck and arbor
3. arbor abrasive band
4. carbide burs (flame and pear)
5. hand chisel
6. shell blaster

C. PERFORMANCE: The student should be able to shellblast, trim, carve and contour the complete dentures.

D. EXTENT & CRITERIA: The following points will be evaluated for recovering and finishing the maxillary and mandibular complete dentures:

1. trimming the acrylic flash without damage to the denture margins
2. natural contour of the complete dentures

With at least 70% accuracy at the end of one session.

VII. POLISHING THE MAXILLARY AND MANDIBULAR COMPLETE DENTURES - ONE LABORATORY SESSION

A. CONDITIONS: Given a demonstration and reading assignments on polishing the complete dentures, and using the following equipment and supplies:

B EQUIPMENT & SUPPLIES:

1. brushes, felt cones, ragwheels
2. wash out brush
3. polishing compounds - pumice, tripoli, tin oxide
4. polishing lathe
5. ultra-sonic cleaner

C. PERFORMANCE: The student should be able to polish the maxillary and mandibular complete dentures

D. EXTENT & CRITERIA: The following areas will be evaluated on finishing and polishing the complete dentures:

1. polished outside surfaces of the dentures
2. maintenance of the tissue surface of the denture
3. maintenance of the peripheral roll

With at least 70% accuracy at the end of one session.

VIII. PREPARATION OF THE FINAL IMPRESSION FOR RELINING AND POURING THE FINAL CAST - THREE LABORATORY SESSIONS

A. CONDITIONS: Given a demonstration and reading assignments on beading and boxing the final impression and pouring the final impression for relining the denture and utilizing the following equipment and supplies:

B EQUIPMENT & SUPPLIES:

1. acrylic denture with new impression using the denture as a tray
2. #7 and #31 spatulas
3. beading wax
4. boxing wax
5. rubber bowl and spatula
6. dental stone

C. PERFORMANCE: The student should be able to bead and box the impression and pour the final cast.

D. EXTENT & CRITERIA: The following points will be evaluated for the preparation of the impression for relining:

1. beading
2. boxing
3. the final cast should be poured free of air bubbles

With at least 70% accuracy at the end of three sessions.

IX. FLASKING THE COMPLETE DENTURE FOR RELINING - THREE LABORATORY SESSIONS

A. CONDITIONS: Given a demonstration and reading assignments on flasking the complete denture for relining, and the following equipment and supplies:

B EQUIPMENT & SUPPLIES:

1. complete denture with the poured final cast
2. denture flask
3. rubber bowl and plaster spatula
4. wash out brush
5. plaster of paris and dental stone
6. separating media
7. debubbler

C. PERFORMANCE: The student should be able to flask the complete denture for relining.

D. EXTENT & CRITERIA: The following points will be judged for flasking the complete denture for relining:

1. flasking of the complete denture for relining
2. smooth plaster surfaces

With at least 70% accuracy at the end of three sessions.

X. PACKING AND PROCESSING THE MAXILLARY AND/OR MANDIBULAR COMPLETE DENTURES FOR RELINING - THREE LABORATORY SESSIONS

A. CONDITIONS: Given a demonstration and reading assignments on mixing, trial packing and final packing and curing of the acrylic resin and using the following equipment and supplies:

B EQUIPMENT & SUPPLIES:

1. monomer and polymer acrylic resin
2. vial and measuring cup
3. mixing jar and spatula
4. plastic sheets
5. upper and lower flakes
6. pneumatic press
7. separating press

C. PERFORMANCE: The student should be able to mix, trial pack, final pack and cure the acrylic resin for the complete denture relines

D. EXTENT & CRITERIA: The following points will be evaluated for packing and processing the maxillary and/or mandibular complete denture relines:

1. mixing the acrylic
2. the trial and final packing
3. processing temperature

With at least 70% accuracy at the end of three sessions.

XI. RECOVERY AND FINISHING THE MAXILLARY AND/OR MANDIBULAR COMPLETE DENTURE FOR RELINING - THREE LABORATORY SESSIONS

A. CONDITIONS: Given demonstrations and reading assignments on denture recovery, and trimming of excess acrylic, and using the following equipment and supplies:

B EQUIPMENT & SUPPLIES:

1. flasks with cured dentures
2. flask ejector
3. bench lathe
4. chuck and arbor
5. arbor abrasive band
6. carbide burs (flame and pear)

C. PERFORMANCE: The student should be able to recover, trim carve and contour the complete dentures.

D. EXTENT & CRITERIA: The following points will be evaluated for recovering and finishing the complete dentures:

1. recovery of the dentures without breakage to teeth or denture bases
2. trimming the acrylic excess without damaging the peripheral margins
3. natural contour of the complete dentures

With at least 70% accuracy at the end of three sessions.

XII. FRACTURE AND TOOTH REPAIR - THREE LABORATORY SESSIONS

A. **CONDITIONS:** Given a demonstration and reading assignments on the procedure for replacing a broken tooth in the acrylic denture base using a plaster index. How the fractured parts of a broken denture can be assembled and repaired and still maintain proper fit and using the following equipment and supplies:

B **EQUIPMENT & SUPPLIES:**

1. sticky wax, steel brace or paper clip
2. chuck, mandrel, sandpaper, bands
3. burs
4. saw
5. tin-foil substitute
6. Murphy knife
7. #31 and #7 wax spatula
8. autopolymerizing acrylic resin, mixing jar
9. polishing compound and polishing wheels

C. **PERFORMANCE:** The student should be able to prepare the area of the broken tooth on the denture, place the broken tooth in position and complete the repair. He also should be able to assemble the broken denture and complete the fracture repair.

D. **EXTENT & CRITERIA:** The following points will be evaluated for the tooth repair and simple fracture:

1. The correct placement of the tooth in the denture base
2. The correct assembly of the broken denture
3. No evidence of porosity in the repaired areas

With at least 70% accuracy at the end of three sessions.

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