

DLT 119 Wrought-Ortho Appliances

COURSE DESCRIPTION:

Prerequisites: DLT-114

- a. Wrought metals
- b.

V. Electric soldering unit

- a. Lecture:
 - i. Presentation
 - 1. Principles of electric soldering
 - 2. Cardinal rules for electric soldering
 - 3. Operating procedures for the electric soldering unit
 - 4. Electric soldering the clasp and strengthen bar
- b. Application
 - i. Demonstration:
 - 1. Operating procedures for the electric soldering unit 2) Soldering the lingual bar.
- c. References:
 - i. Handout, Ticonium Form 771-A
 - ii. Handout, pp. 331-338

VI. Orthodontics – introduction and case studies

- a. Lecture:
 - i. Presentation
 - 1. Ideal occlusion
 - 2. Normal occlusion
 - 3. Malocclusion
 - 4. Case studies
 - 5. Dental prescriptions
- b. Application
 - i. No demonstration due to nature of subject matter
- c. References:
 - i. Construction and Repair of Ortho/Pedo Appliances. pp. 1-20.

VII. Orthodontics – the labial and lingual practice archwire (.020)

- a. Lecture:
 - i. Presentation
 - 1. Fundamentals of orthodontic wire bending
 - 2. Contouring Demonstration:
 - 3. Designing
 - 4. Contouring
- b. References:
 - i. Construction and Repair of Ortho/Pedo Appliances. pp. 21-27

VIII. Orthodontics – the circumferential clasp, the Adams clasp, the ball clasp, the labial bow and the Z spring

- a. Lecture:
 - i. Presentation
 - 1. The circumferential clasp (.032)
 - 2. The Adams clasp (.026)
 - 3. The ball clasp (.032)
 - 4. The labial bow (.030)
 - 5. The Z spring (.020)
- b. Application
 - i. Demonstration:
 - 1. Designing

2. Contouring

c. References:

- i. Construction and Repair of Ortho/Pedo Appliances. pp. 28-37

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6. Cleaning the solder joints
- c. Reference:
 - i. Construction and Repair of Ortho/Pedo Appliances. pp. 57-61

XIII. Orthodontics – the habit appliance

- a. Lecture:
 - i. Presentation
 1. Purpose for habit appliances
 2. Designing the maxillary habit appliance
 3. Contouring the palatal wires
 4. Stabilizing the palatal wires
 5. Soldering the wires
 6. Cleaning and polishing the appliance
- b. Application
- c. Demonstration:
 - i. Designing the habit appliance
 - ii. Contouring the palatal wires
 - iii. Stabilizing the wires
 - iv. Soldering the wires
 - v. Cleaning and polishing the appliance
- d. Reference:
 - i. Construction and Repair of Ortho/Pedo Appliances. pp. 72-75

XIV. Orthodontics – repairing a broken clasp on a maxillary plastic appliance

- a. Lecture:
 - i. Presentation
 1. Pouring the cast
 2. Forming the clasp
 3. Removing the embedded clasp
 4. Applying the resin
 5. Finishing and polishing the appliance
- b. Application
 - i. Demonstration:
 1. Removing the embedded clasp
 2. Applying the resin
 3. Finishing and polishing the repaired appliance
- c. Reference:
 - i. Construction and Repair of Ortho/Pedo Appliances. pp. 79-81

REQUIRED TEXTBOOK AND MATERIAL:

1. Laboratory and Clinical Dental Materials. University of North Carolina Press.
2. Dental Laboratory Technology. Air Force Manual, Volume I and Volume II. U. S. Government Printing Office, Washington, DC, 2009.
- 3.

4. Graber. Orthodontics. 2nd ed. W. B. Saunders.
1. Hoge. The Orthodontic Appliance & Reference Manual
 - (a) McIver, James. A Course for Dental Technicians in the Construction and Repair of Orthodontic and Pedodontic Appliances