

# **L**isting of Standards By Task

## ***PARTIAL DENTURES***

1. Disinfect the impression and/or model
2. Evaluate the prescription for completeness
3. Document changes to the prescription
4. Evaluate the impression or model for completeness
5. Create a master model and a duplicate model
6. Fabricate custom trays
7. Set the bite and mount the case on the articulator
8. Survey & design the appliance
9. Block out the undercuts
10. Fabricate a refractory model
11. Transfer the design from the master model to the refractory model and wax-up
12. Sprue the appliance
13. Invest the model into the casting ring
14. Burn-out the wax pattern
15. Cast and de-vest the appliance
16. Trim and fit the appliance to the duplicate model
17. Fabricate saddle(s) for the altered cast
18. Send the appliance to the Health Professional for try-in and/or altered cast and/or bite registration, if needed
19. Fabricate an altered cast model
20. Set-up the teeth and wax-up the tissue

(Continue with "Full and Partial Dentures" Standards 11 - 26 detailed in prior pages)



## Condition:

Given a shipment of an impression or model from a Health Professional

## Task:

Disinfect the impression and/or model

## Criteria:

### *Safety:*

- So that gloves are worn at all times until disinfecting is completed
- So that the disinfectant used is compatible with the impression and/or model
- So that manufacturer's specifications for the disinfectant used, are followed
- So that the packaging material that was in direct contact with the impression or model, is discarded
- So that the impression and/or model is disinfected according to the Universal Precautions -- at the minimum -- low level, as defined by the RCDSO guidelines, dated June 1995.

### *Timing:*

- Before proceeding any further



**Condition:**

Given a prescription from a Health Professional

**Task:**

Evaluate the prescription for completeness

**Criteria:*****Technical Quality:***

- The prescription must include:
  - ⇒ the patient's name or identification number
  - ⇒ the Health Professional's name
  - ⇒ type and/or description of prosthesis or treatment objectives
  - ⇒ materials and teeth to be used
  - ⇒ shade, if necessary
  - ⇒ date sent
- So that if in doubt, the dental technologist will consult the Health Professional before proceeding with the work

**Condition:**

Given that clarification and/or changes are needed due to an incomplete or unclear prescription from a Health Professional

**Task:**

Document changes to the prescription

**Criteria:**

***Technical Quality:***

- So that any changes or modifications to a prescription or design as a result of discussions with the Health Professional, are documented and dated.
- Documentation must include:
  - ⇒ date and time of discussion
  - ⇒ name of contact from the Health Professional's office
  - ⇒ changes and modifications agreed to
  - ⇒ signature of the RDT or that of the person designated by the RDT



## **Condition:**

Given a prescription and impression or model from a Health Professional

## **Task:**

Evaluate the impression or model for completeness

## **Criteria:**

### ***Technical Quality:***

- The impression or model must --
  - ⇒ not have any flaws and/or visible distortions that will affect the work to be done

## Condition:

Given a complete prescription from a Health Professional, and impressions

## Task:

Create a master model and a duplicate model

## Criteria:

### *Technical Quality:*

- So that the models displays all anatomical tissue landmarks
- So that the models are clear of voids and have no air bubbles in the technically critical areas



**Condition:**

Given a complete prescription from a Health Professional, which includes the requirement for a custom tray, and an impression or model

**Task:**

Fabricate custom trays

**Criteria:*****Technical Quality:***

- So that the custom tray conforms with the anatomical outlines and landmarks provided on the preliminary model
- So that the custom tray provides proper design for the chosen material or impression technique to be used as prescribed

***Safety:***

- So that materials used are either ADA, CDA, Health Canada or FDA approved
- So that if materials do not have either ADA, CDA, Health Canada or FDA approvals, the RDT must inform the prescribing Health Professional and record the Health Professional's approval and the materials used

## Condition:

Given a Health Professional's prescription, a working and opposing model, an articulator, a bite registration and luting material

## Task:

Set the bite and mount the case on the articulator

## Criteria:

### *Technical Quality:*

- So that the models interdigitate as per patient's centric occlusion or as required by the prescription



**Condition:**

Given an articulated case, a surveyor, hand instruments, and a Health Professional's instructions

**Task:**

Survey & design the appliance

**Criteria:*****Technical Quality:***

- According to the Health Professional's prescription
- So that the height of contour of the teeth is outlined
- So that the path of insertion of the appliance is manipulated to achieve harmonization with all the abutment teeth
- So that any potential problems for function, retention or aesthetics are identified
- So that retention is achieved without sacrificing the aesthetics as dictated by the dentist
- So that any potential compromises to the retention and/or aesthetics are approved by the Health Professional

## Condition:

Given the designed appliance on the master model, block-out materials and a heat source

## Task:

Block-out the undercuts

## Criteria:

### *Technical Quality:*

- So that all undercuts that are not part of the design are eliminated
- So that relief and block-out wax is placed in areas as required by the design



**Condition:**

Given the blocked-out master model, duplicating system, hand instruments and refractory model system

**Task:**

Fabricate a refractory model

**Criteria:**

*Technical Quality:*

- So that the refractory model reproduces the master model accurately
- So that the manufacturer's specifications for the materials used are followed

## Condition:

Given the master model, refractory model, hand instruments, patterns and wax

## Task:

Transfer the design from the master model to the refractory model and wax-up

## Criteria:

### *Technical Quality:*

- So that the markings are transferred accurately
- So that the pattern is applied without being distorted
- So that the wax-up is an exact duplicate of the approved design

**Condition:**

Given the waxed appliance on the refractory model

**Task:**

Sprue the appliance

**Criteria:**

***Technical Quality:***

- So as to allow for an accurate reproduction of the wax pattern by casting alloy

## Condition:

Given the waxed and sprued pattern on a refractory model and casting ring, an investment system and hand instruments

## Task:

Invest the model into the casting ring

## Criteria:

### *Technical Quality:*

- According to manufacturer's specifications

**Condition:**

Given mold, furnace and crucible

**Task:**

Burn-out the wax pattern

**Criteria:**

*Technical Quality:*

- So that the temperature used and time allowed for burn-out follows alloy manufacturer's specifications

## Condition:

Given selected alloy for casting and a casting system

## Task:

Cast and de-vest the appliance

## Criteria:

### *Technical Quality:*

- So that porosity is not present in the restoration
- So that all details of the wax pattern are present in the casting
- So that all casting, de-vesting and cleaning procedures are followed according to the instructions of alloy and equipment manufacturers

### *Safety:*

- So that materials used are either ADA, CDA, Health Canada or FDA approved
- So that if materials do not have either ADA, CDA, Health Canada or FDA approvals, the RDT must inform the prescribing Health Professional and record the Health Professional's approval and the materials used

**Condition:**

Given the de-vested casting, high speed motor, trimming tools, and a polishing system

**Task:**

Trim and fit the appliance to the duplicate model

**Criteria:*****Technical Quality:***

- So that the rests are completely seated
- So that the damage to the duplicate model is isolated to the retentive areas of the clasp
- So that the external parts of the metal castings are refined to the original wax contours
- So that the appliance has a clean and shiny appearance
- So that the appliance is passive when fully seated
- So that there are no occlusal interferences

## Condition:

Given a request from a Health Professional for saddles for an altered cast procedure, and given the appliance fitted on the master model, and processing materials

## Task:

Fabricate saddle(s) for the altered cast

## Criteria:

### *Technical Quality:*

- So that the saddle(s) conform with the anatomical outlines and landmarks provided on the preliminary model
- So that the saddle(s) provides proper design for the chosen material or impression technique to be used as prescribed

### *Safety:*

- So that materials used are either ADA, CDA, Health Canada or FDA approved
- So that if materials do not have either ADA, CDA, Health Canada or FDA approvals, the RDT must inform the prescribing Health Professional and record the Health Professional's approval and the materials used

**Condition:**

Given the appliance fitted on the master model and a request for try-in and/or altered cast and/or bite registration as specified in the prescription

**Task:**

Send the appliance to the Health Professional for try-in and/or altered cast and/or bite registration, if needed

**Criteria:*****Technical Quality:***

- So that the appliance will be received by the Health Professional without damage or visible distortions

## Condition:

Given a disinfected cast partial appliance with altered cast impression, a master model, hand instruments, heat source, luting material, and a mixing system

## Task:

Fabricate an altered cast model

## Criteria:

### *Technical Quality:*

- So that the cast partial rests are seated on the master model
- So that there is no interference between the impression material and the model
- So that the altered addition interlocks with the original model

**Condition:**

Given the model, appliance, heat source, teeth, wax, hand instruments, trimming tools, and a hand piece and/or lathe

**Task:**

Set-up the teeth and wax-up the tissue

**Criteria:*****Technical Quality:***

- Following the Health Professional's prescription and/or instructions
- So that the shade of the teeth matches the prescription
- So that the mold is selected in accordance with the manufacturer's suggested criteria
- So that the teeth are set-up to achieve the required occlusal relationship
- So that wax-up is done according to anatomical requirements
- So that the aesthetic requirements specified by the Health Professional are met

***Continue with “Full and Partial Dentures” Standards #11 –26 detailed in prior pages.***