



Australian Government

Department of Education, Employment and Workplace Relations

HLTDT302D Construct custom impression trays

Release: 1

HLTDT302D Construct custom impression trays

Modification History

HLT07 Version 4	HLT07 Version 5	Comments
HLTDT302C Construct custom impression trays	HLTDT302D - Construct custom impression trays	Unit updated in V5. ISC upgrade changes to remove references to old OHS legislation and replace with references to new WHS legislation. No change to competency outcome.

Unit Descriptor

Descriptor

This unit of competency describes the skills and knowledge required to construct special trays to accurately record oral tissues

All procedures are carried out in accordance with work health and safety (WHS) policies and procedures, current infection control guidelines, Australian and New Zealand Standards, State/Territory legislative requirements and organisation policy

Application of the Unit

Application

This unit applies to work in dental technology

Licensing/Regulatory Information

Not Applicable

Pre-Requisites

Pre-requisite units

This unit must be assessed after successful achievement of pre-requisites:

- HLTIN301C Comply with infection control policies and procedures
- HLTWHS200A Participate in WHS processes

Employability Skills Information

Employability Skills

This unit contains Employability Skills

Elements and Performance Criteria Pre-Content

Elements define the essential outcomes of a unit of competency.

The Performance Criteria specify the level of performance required to demonstrate achievement of the Element. Terms in italics are elaborated in the Range Statement.

Elements and Performance Criteria

ELEMENT

PERFORMANCE CRITERIA

1. Prepare model

- 1.1 Read and interpret the prescription
- 1.2 Block out undesirable undercuts
- 1.3 Design *the custom tray* for the client's dentition and the intended impression material and technique
- 1.4 Apply spacer material as required

ELEMENT**PERFORMANCE CRITERIA**

- | | |
|-------------------------------------|---|
| 2. Select and prepare materials | 2.1 Select <i>custom tray materials</i> in accordance with the prescription |
| | 2.2 Prepare equipment for processing |
| | 2.3 Provide appropriate mixing vessels and templates if required |
| 3. Construct custom impression tray | 3.1 Apply appropriate separating medium in accordance with manufacturer's instructions |
| | 3.2 Mix or manipulate materials in accordance with the manufacturer's instructions |
| | 3.3 Adapt tray material to the model to the pre-determined peripheral outline |
| | 3.4 Construct handle and finger rests and attach according to operator requirements |
| | 3.5 Process custom tray using the correct method for the correct material |
| | 3.6 Separate the tray from the cast in a manner that prevents damage and remove spacer material |
| | 3.7 Trim the outline of the tray to shape |
| 4. Finish custom impression tray | 4.1 Smooth and refine the peripheries, handle and other surfaces of the tray |
| | 4.2 Decontaminate the custom impression tray according to infection control guidelines |
| | 4.3 Dry the custom tray and place in a sealed container for dispatch |

Required Skills and Knowledge

REQUIRED SKILLS AND KNOWLEDGE

This describes the essential skills and knowledge and their level required for this unit.

REQUIRED SKILLS AND KNOWLEDGE

Essential knowledge:

The candidate must be able to demonstrate essential knowledge required to effectively do the task outlined in elements and performance criteria of this unit, manage the task and manage contingencies in the context of the identified work role

This includes knowledge of:

- Applied oral anatomy:
 - dentition - arrangement of the teeth, naming and coding of teeth
 - structures of the oral cavity - hard and soft palate, lateral and posterior borders of the oral cavity, tongue and floor of the mouth
 - teeth - form and function
- Infection control guidelines for the decontamination of completed laboratory work
- Properties of custom tray materials including:
 - acrylic resins
 - light-cured composite
 - shellac
 - thermoplastic
- Rationale for using space filling materials
- The desirable properties and design features of custom impression trays including:
 - a design that holds the impression material in the correct position in the mouth
 - a design that supports the lips and cheeks so that the functional depth and shape of the sulcus is recorded
 - positioning of the handle to avoid the lip during impression taking
 - rigidity, strength, dimensional stability and smoothness
 - spacing to permit the correct thickness of the impression material to be used

Essential skills:

It is critical that the candidate demonstrate the ability to

- Consistently prepare a range of custom tray materials
- Consistently fabricate a range of custom trays that are clean, free of debris and conform to the prescription
- Consistently comply with current infection control guidelines, Australian Standards and legislative requirements as they relate to the dental technician's specific job role
- Consistently comply with work health and safety (WHS) policies and procedures as they relate to the dental technician's specific job role

In addition, the candidate must be able to effectively do the task outlined in elements and

REQUIRED SKILLS AND KNOWLEDGE

performance criteria of this unit, manage the task and manage contingencies in the context of the identified work role

This includes the ability to:

- Consistently follow safe work practices and apply standard precautions during the construction of custom impression trays
- Consistently follow work health and safety (WHS) policies and procedures
- Consistently read and interpret the prescription card correctly
- Consistently follow sequenced written instructions and manufacturer specifications for the preparation of materials
- Consistently use visible light cured techniques
- Consistently use thermo-forming technology
- Critically evaluate all work produced so as to consistently meet both the technical requirements of the laboratory and client requirements
- Select procedures to prepare a range of custom trays
- Use appropriate practices to ensure efficient use of power and other resources
- Use literacy skills to read and follow directions, policies and procedures including:
 - laboratory policies and procedures
 - material safety data sheets

Evidence Guide

EVIDENCE GUIDE

The evidence guide provides advice on assessment and must be read in conjunction with the Performance Criteria, Required Skills and Knowledge, the Range Statement and the Assessment Guidelines for this Training Package.

Critical aspects for assessment and evidence required to demonstrate this competency unit:

- Consistency of performance should be demonstrated over the required range of workplace situations
- The individual being assessed must provide evidence of specified essential knowledge as well as skills

EVIDENCE GUIDE

Context of and specific resources for assessment:

- Assessment should replicate workplace conditions as far as possible
- Where, for reasons of safety, access to equipment and resources and space, assessment takes place away from the workplace, simulations should be used to represent workplace conditions as closely as possible

Method of assessment

- Evidence of essential knowledge and understanding may be provided by:
 - traditional or online (computer-based) assessment
 - written assignments/projects
- Case study and scenario as a basis for discussion of issues and strategies to contribute to best practice
- Questioning
- Staff and/or client feedback
- Supporting statement of supervisor
- Authenticated evidence of relevant work experience and/or formal/informal learning
- Role play/simulation

Access and equity considerations:

- All workers in the health industry should be aware of access and equity issues in relation to their own area of work
- All workers should develop their ability to work in a culturally diverse environment
- In recognition of particular health issues facing Aboriginal and Torres Strait Islander communities, workers should be aware of cultural, historical and current issues impacting on health of Aboriginal and Torres Strait Islander people
- Assessors and trainers must take into account relevant access and equity issues, in particular relating to factors impacting on health of Aboriginal and/or Torres Strait Islander clients and communities

Range Statement

RANGE STATEMENT

The Range Statement relates to the unit of competency as a whole. It allows for different work environments and situations that may affect performance.

Removable prostheses may include but are not limited to:

- Complete dentures
- Partial dentures

Custom tray materials may include:

- Shellac
- Acrylic resins
- Thermoplastic
- Light-cured composite

Unit Sector(s)

Not Applicable