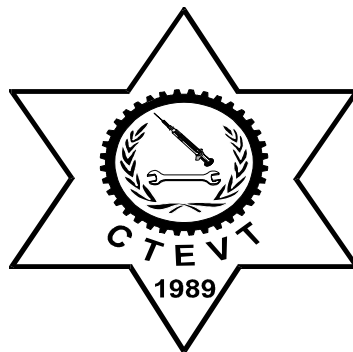


Dental Laboratory Mechanic [DLM]

(Short Term Competency Based Curriculum)

2010



Council for Technical Education and Vocational Training (CTEVT)
CURRICULUM DEVELOPMENT DIVISION
SANOTHIMI, BHAKTAPUR

Table of contents

| | |
|--|----|
| Introduction..... | 4 |
| Aims | 4 |
| Objectives | 4 |
| Description..... | 4 |
| Course structure | 5 |
| Duration | 6 |
| Target group..... | 6 |
| Group size | 6 |
| Target location | 6 |
| Medium of Instruction | 6 |
| Pattern of attendance..... | 6 |
| Focus of the program | 6 |
| Entry criteria | 6 |
| Follow up suggestion | 6 |
| Certificate requirement: | 6 |
| Grading System..... | 7 |
| Student Evaluation Details:..... | 7 |
| Trainers' Qualification:..... | 7 |
| Trainer – Trainees Ratio: | 7 |
| Suggestion for instruction | 7 |
| List of modules and sub modules..... | 9 |
| Details of curriculum | 10 |
| Module: 1: Materials, equipment, instruments and safety..... | 10 |
| Sub module: 1: Materials/Equipment/Instruments | 10 |
| Sub module: 2: Laboratory Safety | 12 |
| Module: 2: Fabrication..... | 14 |
| Sub module: 1: Removable Partial Denture (RPD) | 14 |
| Sub module: 2: Complete Denture (CD) | 17 |
| Sub module: 3: Ortho Plate..... | 19 |
| Module: 3: Bridge and mouth guard..... | 21 |
| Sub module: 1: Acrylic Temporary Crown / Bridge | 21 |
| Sub module: 2: Bite Rest (Mouth Guard)..... | 23 |
| Module: 4: Repair and Maintenance..... | 25 |
| Module: 5: Common module | 26 |
| Sub module: 1: Applied math | 27 |
| Sub module: 2: Occupational health and safety..... | 29 |
| Sub module: 3: First aid..... | 32 |
| Sub module: 4: HIV/AIDS..... | 34 |
| Sub module: 5: Communication | 35 |
| Sub module: 6: Small enterprise development | 39 |
| Appendices..... | 44 |
| Reading materials..... | 44 |
| Equipment..... | 44 |

| | |
|--|----|
| Instruments..... | 44 |
| Materials | 44 |
| List of modules, sub modules and time allocation..... | 45 |
| Job Analysis Product (<i>List of duties and tasks</i>) | 48 |

Introduction

This curriculum for “**Dental Laboratory Mechanic**” has been developed with a purpose of preparing technical workforce in the field of **dental laboratory mechanics** able to get employment in the country. The technical skills incorporated in this curriculum come from the experts who have already worked **in field of dental laboratory mechanics**. Its contents are organized in the form of **modules**. So it is a tailor made curriculum to be implemented in a modular form.

It is a competency based curriculum too. It is also designed to produce lower level technical workforce in the field of **dental laboratory mechanics** equipped with skills, knowledge and attitudes related to **the technology of dental laboratory mechanics** in order to meet the demand of such workforce in the country so as to contribute in the national streamline of poverty reduction in Nepal.

Aims

The main aim of this curricular program is to produce skilled workforce in the field of **dental laboratory mechanics** by providing training to the citizen of the country and link them to employment opportunities in the country. The aims of this curriculum are:

- To produce **lower** level technical workforce in the field of **dental laboratory mechanics**
- To produce such technical workforce who will be able to provide service through the application of the skills and knowledge of the technology **dental laboratory mechanics**.

Objectives

After the completion of this training program, the trainees will be able:

- To be familiar with dental Materials/Equipment/Instruments
- To maintain Laboratory Safety
- To fabricate Removable Partial Denture (RPD)
- To fabricate Complete Denture (CD)
- To fabricate Ortho Plate
- To prepare Acrylic Temporary Crown / Bridge
- To prepare Bite Rest (Mouth Guard)
- To perform Repair /Maintenance
- To communicate with other
- To develop Professionalism

Description

This curriculum provides skills and knowledge necessary for “**Dental Laboratory Mechanic**”. There will be both demonstration by trainers/instructors and opportunity by trainees to carry out the skills/tasks necessary for this level of technical workforce. Trainees will practice and learn skills by using typical tools, materials and equipment necessary for this curricular program.

On successful completion of this training, the trainees will be able to **carry out skills related to** handle dental Materials/Equipment/Instruments, maintain Laboratory Safety, fabricate Removable Partial Denture (RPD), fabricate Complete Denture (CD), fabricate Ortho Plate, prepare Acrylic Temporary Crown / Bridge, prepare Bite Rest (Mouth Guard), perform Repair /Maintenance, and communicate with other.

Course structure

| Job: <i>Dental Lab. Mechanic (DLM)</i> | | | | | | | | | |
|--|--------------|-----------|------------|------------|-----------|------------|------------|-----------|---|
| Module/sub modules | Nature | Th. | Pr. | Tot. | Th. | Pr. | Tot. | | |
| 1. Materials, equipment, instruments and safety | T + P | 18 | 70 | 88 | 12 | 48 | 60 | | |
| 1. Materials/Equipment/Instruments | T + P | 10 | 38 | 48 | | | | | 6 |
| 2. Laboratory safety | T + P | 8 | 32 | 40 | | | | | 5 |
| 2. Fabrication | T + P | 28 | 116 | 144 | 20 | 80 | 100 | 0 | |
| 1. Removable Partial Denture (RPD) | T + P | 10 | 38 | 48 | | | | | 6 |
| 2. Complete Denture (CD) | T + P | 8 | 32 | 40 | | | | | 5 |
| 3. Ortho Plate | T + P | 10 | 46 | 56 | | | | | 7 |
| 3. Bridge and mouth guard | T + P | 16 | 72 | 88 | 12 | 48 | 60 | 0 | |
| 1. Acrylic Temporary Crown / Bridge | T + P | 8 | 32 | 40 | | | | | 5 |
| 2. Bite Rest (Mouth Guard) | T + P | 6 | 26 | 32 | | | | | 4 |
| 4. Repair and Maintenance | T + P | 2 | 14 | 16 | 6 | 24 | 30 | 4 | |
| Sub-total: | | 62 | 258 | 320 | 50 | 200 | 250 | 42 | |
| 5. Common module | T + P | 14 | 56 | 70 | 10 | 40 | 50 | | |
| 1. Applied math | T + P | 4 | 16 | 20 | | | | | |
| 2. Occupational health and safety | T + P | 2 | 8 | 10 | | | | | |
| 3. First aid | T + P | 1 | 4 | 5 | | | | | |
| 4. HIV/AIDS | T + P | 1 | 4 | 5 | | | | | |
| 5. Communication | T + P | 2 | 8 | 10 | | | | | |
| 6. Small enterprise development | T + P | 4 | 16 | 20 | | | | | |
| Total: | | 76 | 314 | 390 | 60 | 240 | 300 | | |

Duration

The total duration of this curricular program will be of **three months (390 hours) [320 hours of specific modules plus 70 hours of Common module.**

Target group

The target group for this training will be all the interested individuals of the country **with the minimum qualification of class five passed or equivalent**

Group size

The group size of this training program will be not more than 30

Target location

The target location of this training program will be all over Nepal.

Medium of Instruction

The medium of instruction for this training program will be Nepali or English or both.

Pattern of attendance

The trainees should have 80% attendance in theory classes and 90% in Practical (Performance) to be eligible for internal assessment and final examinations.

Focus of the program

This is a competency based curriculum. This curriculum emphasizes on competent performance of the task specified in it. Not less than 80% time is allotted to the competencies and not more than 20% to the related technical knowledge. So, the main focus will be on the performance of the specified competencies/tasks /skills included in this curriculum.

Entry criteria

Individuals who meet the following criteria will be allowed to enter in this curricular program:

- Minimum of grade ten pass or equivalent
- Physically and mentally fit
- Minimum of 18 years of age
- Should pass entrance examination
- Preference will be given to female, Dalit, Janjati, and Conflict affected people

Follow up suggestion

This is not a training program only for training sake. The ultimate success of this program will rest on the proficiency of the graduates of this training program in providing services in the community either by wage employment or by self-employment.

In other to assess the success of this program and collect feedbacks/inputs for the revision of the program, a schedule of follow up is suggested as follows:-

- First follow up: - Six months after the completion of the training program.
- Second follow up: - Six months after the completion of the first follow up.
- Follow up cycle: - In a cycle of one year after the completion of second follow up for five years.

Certificate requirement:

The related training institute will provide the certificate of **“Dental Laboratory Mechanic”** to those individuals who successfully complete all the tasks with their related technical knowledge specified in this curriculum.

Grading System

The trainees will be graded as follows based on the marks in percentage secured by them in tests/ evaluations.

- Distinction: Passed with 80% or above
- First Division: Passed with 75% or above
- Second Division: Passed with 65% or above
- Third Division: Passed with 60% or above

Student Evaluation Details:

- Continuous evaluation of the trainees' performance is to be done by the related instructor/trainer to ensure the proficiency over each competency.
- Related technical knowledge learnt by the trainees will be evaluated through written or oral tests as per the nature of the content
- Trainees must secure minimum marks of 60% in an average of both theory and practical evaluations.

Trainers' Qualification:

- Bachelor Of Dental Surgery (BDS)
- Senior Dental Lab Technician.

Trainer – Trainees Ratio:

- In theory classes 1(trainer): 20 (trainees)
- In practical classes (in workshop and laboratory) 1(trainer): 10 (trainees)

Suggestion for instruction

Demonstrate task performance

- Demonstrate task performance in normal speed
- Demonstrate slowly with verbal description of each and every steps in the sequence of activity flow of the task performance using question and answer techniques
- Repeat the above step for the clarification on trainees demand if necessary.
- Perform fast demonstration of the task performance.

Provide trainees the opportunity to practice the task performance demonstrated.

- Provide trainees to have guided practice:- create environment for practicing the demonstrated task performance and guide the trainees in each and every step of task performance
- Provide trainees the opportunity to repeat & re-repeat as per the need to be proficient on the given task performance
- Switch to another task demonstration if and only if the trainees developed proficiency in the given task performance

Evaluation performance of the trainees/ student

- Perform task analysis
- Develop a detail task performance check list

- Perform continuous performance evaluation of the trainees / students by applying the performance check list.

List of modules and sub modules

Module: 1: Materials, equipment, instruments and safety

Sub module: 1: Materials/Equipment/Instruments

Sub module: 2: Laboratory Safety

Module: 2: Fabrication

Sub module: 1: Removable Partial Denture (RPD)

Sub module: 2: Complete Denture (CD)

Sub module: 3: Ortho Plate

Module: 3: Bridge and mouth guard

Sub module: 1: Acrylic Temporary Crown / Bridge

Sub module: 2: Bite Rest (Mouth Guard)

Module: 4: Repair and Maintenance

Module: 5: Common module

Sub module: 1: Applied math

Sub module: 2: Occupational health and safety

Sub module: 3: First aid

Sub module: 4: HIV/AIDS

Sub module: 5: Communication

Sub module: 6: Small enterprise development

Details of curriculum

| Module: 1: Materials, equipment, instruments and safety | | | | | |
|--|--|--|-----|-------------|------|
| Description: It includes knowledge and skills related to dental materials, equipment, instruments and laboratory safety. | | | | | |
| Objectives: | | | | | |
| <ul style="list-style-type: none"> • To be familiar with dental materials/equipment/instruments • To maintain laboratory safety | | | | | |
| Sub modules: | | | | | |
| 1: Materials/Equipment/Instruments | | | | | |
| 2: Laboratory Safety | | | | | |
| Sub module: 1: Materials/Equipment/Instruments | | | | | |
| Objective: | | | | | |
| <ul style="list-style-type: none"> • To be familiar with dental Materials/Equipment/Instruments | | | | | |
| Task: Each task includes task statement, related technical knowledge necessary to know for carrying out the task in a professional way and the time allocation for both the theory and practical aspects of the task. | | | | | |
| 10 hrs. (Th.) + 38 hrs. (Pr.) = 48 hrs. (Hrs.) | | | | Time (Hrs.) | |
| SN | Tasks | Related technical knowledge | Th. | Pr. | Tot. |
| 1. | Be familiar with Gypsum products and its types | <u>Gypsum products and its types:</u> <ul style="list-style-type: none"> • Concept of Gypsum products • Types of Gypsum products • Identification of Gypsum products • Uses/application of Gypsum products • Related precautions to be taken • Related records to be taken | 1 | 6 | 7 |
| 2. | Be familiar with Wax and its types used in dentistry | <u>Wax and its types used in dentistry:</u> <ul style="list-style-type: none"> • Concept of Wax • Types of Wax used in dentistry • Identification of Wax to be used in dentistry • Uses/application of Wax in dentistry • Related precautions to be | 1 | 6 | 7 |

| | | | | | |
|----|---|--|---|---|----|
| | | <p>taken</p> <ul style="list-style-type: none"> • Related records to be taken | | | |
| 3. | Be familiar with Resins and its types used in dentistry | <p><u>Resins and its types used in dentistry:</u></p> <ul style="list-style-type: none"> • Concept of Resins • Types of Resins to be used in dentistry • Identification of Resins to be used in dentistry • Uses/application of Resins in dentistry • Handling and care • Related precautions to be taken • Related records to be taken | 1 | 6 | 7 |
| 4. | Be familiar with impression material (Alginate, compound) | <p><u>Impression material (Alginate, compound):</u></p> <ul style="list-style-type: none"> • Concept of impression material (Alginate, compound) • Types: Alginate/compound • Identification of impression material (Alginate, compound) • Uses/application of impression material (Alginate, compound) • Handling and care • Related precautions to be taken • Related records to be taken | 2 | 6 | 8 |
| 5. | Be familiar with instruments and equipment used in Laboratory | <p><u>Instruments and equipment used in Laboratory:</u></p> <p><i>Instruments:</i></p> <ul style="list-style-type: none"> • Concept of instruments • Types of instruments • Identification various types of instruments • Uses/application of the instruments • Handling and care of the instruments • Related precautions to be | 4 | 8 | 12 |

| | | | | | |
|--|---------------------------------------|---|-------------|-----|------|
| | | <ul style="list-style-type: none"> • taken • Related records to be taken <p>Equipment:</p> <ul style="list-style-type: none"> • Concept of equipment • Types of equipment • Identification of various types of equipment • Uses/application of the various types of equipment • Handling and care of the various types of equipment • Related precautions to be taken • Related records to be taken | | | |
| 6. | Minimize wastage of materials | <p><u>Minimizing wastage of materials:</u></p> <ul style="list-style-type: none"> • Concept of wastage of materials • How wastage of materials happens • Principle and procedures for minimizing wastage of materials • Related precautions to be taken • Related records to be taken | 1 | 6 | 7 |
| | Sub-total: | | 10 | 38 | 48 |
| Sub module: 2: Laboratory Safety | | | | | |
| Description: It includes knowledge and skills related to dental laboratory safety. | | | | | |
| Objective: | | | | | |
| <ul style="list-style-type: none"> • To maintain Laboratory Safety | | | | | |
| Task: Each task includes task statement, related technical knowledge necessary to know for carrying out the task in a professional way and the time allocation for both the theory and practical aspects of the task. | | | | | |
| 8 hrs. (Th.) + 32 hrs. (Pr.) = 40 hrs. (Hrs.) | | | Time (Hrs.) | | |
| SN | Tasks | Related technical knowledge | Th. | Pr. | Tot. |
| 1. | Control cross infection in Laboratory | <p><u>Control of cross infection in Laboratory:</u></p> <ul style="list-style-type: none"> • Concept of cross infection in laboratory • Need for controlling cross infection in laboratory • Principles and procedures for | 1.6 | 6.4 | 8 |

| | | | | | |
|----|--|---|-----|-----|---|
| | | <p>controlling cross infection in laboratory</p> <ul style="list-style-type: none"> Controlling cross infection in laboratory Related precautions to be taken Related records to be taken | | | |
| 2. | Adopt Universal Precaution in Laboratory | <p><u>Universal Precaution in Laboratory:</u></p> <ul style="list-style-type: none"> Concept of Universal Precautions Need for adopting Universal Precaution in laboratory Principles and procedures for adopting Universal Precaution in laboratory Adopting Universal Precaution in laboratory Related precautions to be taken Related records to be taken | 1.6 | 6.4 | 8 |
| 3. | Minimize hazards from dental materials | <p><u>Minimizing hazards from dental materials:</u></p> <ul style="list-style-type: none"> Concept of hazards from dental materials Need for minimizing hazards from dental materials Principles and procedures for minimizing hazards from dental materials Minimizing hazards from dental materials Related precautions to be taken Related records to be taken | 1.6 | 6.4 | 8 |
| 4. | Disinfect the dental cast | <p><u>Disinfecting the dental cast:</u></p> <ul style="list-style-type: none"> Concept of dental cast Need for disinfecting the dental cast Principles and procedures for disinfecting the dental cast Disinfecting the dental cast Related precautions to be | 1.6 | 6.4 | 8 |

| | | | | | |
|---|--|---|-----|-------------|------|
| | | taken | | | |
| | | <ul style="list-style-type: none"> • Related records to be taken | | | |
| 5. | Dispose laboratory waste | <u>Disposing laboratory waste:</u> <ul style="list-style-type: none"> • Concept of laboratory waste • Need for disposing laboratory waste • Principles and procedures for disposing laboratory waste • Disposing laboratory waste • Related precautions to be taken • Related records to be taken | 1.6 | 6.4 | 8 |
| | Sub-total: | | 8 | 32 | 40 |
| Module: 2: Fabrication | | | | | |
| | Description: It includes knowledge and skills related to fabricating Removable Partial Denture (RPD), Complete Denture (CD) and Ortho Plate. | | | | |
| | Objectives: <ul style="list-style-type: none"> • To fabricate Removable Partial Denture (RPD) • To fabricate Complete Denture (CD) • To fabricate Ortho Plate | | | | |
| | Sub modules: 1: Removable Partial Denture (RPD) 2: Complete Denture (CD) 3: Ortho Plate | | | | |
| Sub module: 1: Removable Partial Denture (RPD) | | | | | |
| | Description: It includes knowledge and skills related to fabricating Removable Partial Denture (RPD). | | | | |
| | Objective: <ul style="list-style-type: none"> • To fabricate Removable Partial Denture (RPD) | | | | |
| | Task: Each task includes task statement, related technical knowledge necessary to know for carrying out the task in a professional way and the time allocation for both the theory and practical aspects of the task. | | | | |
| | 10 hrs. (Th.) + 38 hrs. (Pr.) = 48 hrs. (Hrs.) | | | Time (Hrs.) | |
| SN | Tasks | Related technical knowledge | Th. | Pr. | Tot. |
| 1. | Manipulate impression material(Alginate) | <u>Manipulating impression material(Alginate):</u> <ul style="list-style-type: none"> • Concept, need and importance of manipulating impression material(Alginate) • Uses and application of manipulating impression | 1 | 4 | 5 |

| | | | | | |
|----|----------------------------------|--|---|---|---|
| | | material(Alginate) <ul style="list-style-type: none"> Principles and procedures for manipulating impression material(Alginate) Manipulating impression material(Alginate) Related precautions to be taken Related records to be taken | | | |
| 2. | Pour dental cast (Plaster/stone) | <u>Pouring dental cast (Plaster/stone):</u> <ul style="list-style-type: none"> Concept, need and importance of pouring dental cast (Plaster/stone) Uses and application of pouring dental cast (Plaster/stone) Principles and procedures for pouring dental cast (Plaster/stone) Pouring dental cast (Plaster/stone) Related precautions to be taken Related records to be taken | 1 | 4 | 5 |
| 3. | Prepare Wax Plate | <u>Preparing Wax Plate :</u> <ul style="list-style-type: none"> Concept, need and importance of preparation of Wax Plate Uses and application of preparation of Wax Plate Principles and procedures for preparation of Wax Plate Preparing Wax Plate Related precautions to be taken Related records to be taken | 1 | 4 | 5 |
| 4. | Arrange teeth | <u>Arranging teeth:</u> <ul style="list-style-type: none"> Concept, need and importance of arranging teeth Uses and application of arranging teeth | 1 | 4 | 5 |

| | | | | | |
|----|---|--|---|----|----|
| | | <ul style="list-style-type: none"> Principles and procedures for arranging teeth Arranging teeth Related precautions to be taken Related records to be taken | | | |
| 5. | Process denture (Perform flasking/dewaxing /packing/curing) | <u>Processing denture (Performing flasking/dewaxing /packing/curing):</u> <ul style="list-style-type: none"> Concept, need and importance of processing denture (Performing flasking/dewaxing /packing/curing) Uses and application of processing denture (Performing flasking/dewaxing /packing/curing) Principles and procedures for processing denture (Performing flasking/dewaxing /packing/curing) Processing denture (Performing flasking/dewaxing /packing/curing) Related precautions to be taken Related records to be taken | 4 | 14 | 18 |
| 6. | Perform Trimming/ Finishing /Polishing | <u>Performing Trimming/ Finishing /Polishing:</u> <ul style="list-style-type: none"> Concept, need and importance of performing Trimming/ Finishing /Polishing Uses and application of performing Trimming/ Finishing /Polishing Principles and procedures for performing Trimming/ Finishing /Polishing | 2 | 8 | 10 |

| | | <ul style="list-style-type: none"> Performing Trimming/ Finishing /Polishing Related precautions to be taken Related records to be taken | | | |
|---|--|---|-------------|-----|------|
| | Sub-total: | | 10 | 38 | 48 |
| Sub module: 2: Complete Denture (CD) | | | | | |
| | Description: It includes knowledge and skills related to fabricating Complete Denture (CD). | | | | |
| | Objective: <ul style="list-style-type: none"> To fabricate Complete Denture (CD) | | | | |
| | Task: Each task includes task statement, related technical knowledge necessary to know for carrying out the task in a professional way and the time allocation for both the theory and practical aspects of the task. | | | | |
| | 8 hrs. (Th.) + 32 hrs. (Pr.) = 40 hrs. (Hrs.) | | Time (Hrs.) | | |
| SN | Tasks | Related technical knowledge | Th. | Pr. | Tot. |
| 1. | Prepare custom tray | <u>Preparing custom tray:</u> <ul style="list-style-type: none"> Concept, need and importance of custom tray Uses and application of custom tray Principles and procedures for preparing custom tray Preparing Custom tray Related precautions to be taken Related records to be taken | 1.6 | 6 | 7.6 |
| 2. | Prepare temporary denture base and occlusal Rim | <u>Preparing temporary denture base and occlusal Rim:</u> <ul style="list-style-type: none"> Concept, need and importance of temporary denture base and occlusal Rim Uses and application of temporary denture base and occlusal Rim Principles and procedures for preparing temporary denture base and occlusal Rim Preparing temporary denture base and occlusal Rim Related precautions to be taken | 1.6 | 6 | 7.6 |

| | | | | | |
|----|---|--|-----|---|-----|
| | | <ul style="list-style-type: none"> • Related records to be taken | | | |
| 3. | Perform Mounting(articulation) | <p><u>Performing Mounting(articulation):</u></p> <ul style="list-style-type: none"> • Concept, need and importance of performing Mounting(articulation) • Uses and application of performing Mounting(articulation) • Principles and procedures for performing Mounting(articulation) • Performing Mounting(articulation) • Related precautions to be taken • Related records to be taken | 1.6 | 6 | 7.6 |
| 4. | Process denture (Flasking, dewaxing, packing, curing) | <p><u>Processing denture (Flasking, dewaxing, packing, curing):</u></p> <ul style="list-style-type: none"> • Concept, need and importance of processing denture (Flasking, dewaxing, packing, curing) • Uses and application of processing denture (Flasking, dewaxing, packing, curing) • Principles and procedures for processing denture (Flasking, dewaxing, packing, curing) • Processing denture (Flasking, dewaxing, packing, curing) • Related precautions to be taken • Related records to be taken | 1.6 | 8 | 9.6 |
| 5. | Perform Trimming/ Finishing /Polishing | <p><u>Performing Trimming/ Finishing /Polishing:</u></p> <ul style="list-style-type: none"> • Concept, need and importance of Trimming/ Finishing /Polishing • Uses and application of Trimming/ Finishing /Polishing • Principles and procedures for | 1.6 | 6 | 7.6 |

| | | | | | |
|--|----------------------------------|--|-------------|-----|------|
| | | Trimming/ Finishing /Polishing | | | |
| | | <ul style="list-style-type: none"> Performing Trimming/ Finishing /Polishing Related precautions to be taken Related records to be taken | | | |
| | | Sub-total: | 8 | 32 | 40 |
| Sub module: 3: Ortho Plate | | | | | |
| Description: It includes knowledge and skills related to fabricating Ortho Plate. | | | | | |
| Objective: | | | | | |
| <ul style="list-style-type: none"> To fabricate Ortho Plate | | | | | |
| Task: Each task includes task statement, related technical knowledge necessary to know for carrying out the task in a professional way and the time allocation for both the theory and practical aspects of the task. | | | | | |
| 10 hrs. (Th.) + 46 hrs. (Pr.) = 56 hrs. (Hrs.) | | | Time (Hrs.) | | |
| SN | Tasks | Related technical knowledge | Th. | Pr. | Tot. |
| 1. | Fabricate labial bow(Short/Long) | <u>Fabricating labial bow(Short/Long):</u> <ul style="list-style-type: none"> Concept, need and importance of fabrication of labial bow(Short/Long) Identification and application of labial bow(Short/Long) Principles and procedures for fabricating labial bow(Short/Long) Fabricating labial bow(Short/Long) Related precautions to be taken Related records to be taken | 2 | 7 | 9 |
| 2. | Fabricate Adams Clasp | <u>Fabricating Adams Clasp:</u> <ul style="list-style-type: none"> Concept, need and importance of fabrication of Adams Clasp Identification and application of Adams Clasp Principles and procedures for fabricating Adams Clasp Fabricating Adams Clasp Related precautions to be taken | 2 | 7 | 9 |

| | | | | | |
|----|---|--|---|---|---|
| | | <ul style="list-style-type: none"> • Related records to be taken | | | |
| 3. | Fabricate C-clasp | <u>Fabricating C-clasp:</u> <ul style="list-style-type: none"> • Concept, need and importance of fabrication of C-clasp • Identification and application of C-clasp • Principles and procedures for fabricating C-clasp • Fabricating C-clasp • Related precautions to be taken • Related records to be taken | 2 | 7 | 9 |
| 4. | Fabricate spring (Z) | <u>Fabricating spring (Z):</u> <ul style="list-style-type: none"> • Concept, need and importance of fabrication of spring (Z) • Identification and application of spring (Z) • Principles and procedures for fabricating spring (Z) • Fabricating spring (Z) • Related precautions to be taken • Related records to be taken | 1 | 7 | 8 |
| 5. | Perform processing | <u>Performing processing:</u> <ul style="list-style-type: none"> • Concept, need and importance of processing • Principles and procedures for processing • Performing processing • Related precautions to be taken • Related records to be taken | 1 | 6 | 7 |
| 6. | Fabricate bite plate (Anterior/posterior) | <u>Fabricating bite plate (Anterior/posterior):</u> <ul style="list-style-type: none"> • Concept, need and importance of fabrication of bite plate (Anterior and posterior) • Identification and application of bite plate (Anterior and posterior) | 1 | 6 | 7 |

| | | | | | |
|--|---------------------------------|---|-------------|----|----|
| | | <ul style="list-style-type: none"> Principles and procedures for fabricating bite plate (Anterior and posterior) Fabricating bite plate (Anterior and posterior) Related precautions to be taken Related records to be taken | | | |
| 7. | Fabricate Night Guard (acrylic) | <u>Fabricating Night Guard (acrylic):</u> <ul style="list-style-type: none"> Concept, need and importance of fabrication of Night Guard (acrylic) Identification and application of Night Guard (acrylic) Principles and procedures for fabricating Night Guard (acrylic) Fabricating Night Guard (acrylic) Related precautions to be taken Related records to be taken | 1 | 6 | 7 |
| | Sub-total: | | 10 | 46 | 56 |
| Module: 3: Bridge and mouth guard | | | | | |
| Description: It includes knowledge and skills related to the preparation of Acrylic Temporary Crown / Bridge and Bite Rest (Mouth Guard). | | | | | |
| Objectives: <ul style="list-style-type: none"> To prepare Acrylic Temporary Crown / Bridge To prepare Bite Rest (Mouth Guard) | | | | | |
| Sub modules: <ol style="list-style-type: none"> Acrylic Temporary Crown / Bridge Bite Rest (Mouth Guard) | | | | | |
| Sub module: 1: Acrylic Temporary Crown / Bridge | | | | | |
| Description: It includes knowledge and skills related to the preparation of Acrylic Temporary Crown / Bridge. | | | | | |
| Objective: <ul style="list-style-type: none"> To prepare Acrylic Temporary Crown / Bridge | | | | | |
| Task: Each task includes task statement, related technical knowledge necessary to know for carrying out the task in a professional way and the time allocation for both the theory and practical aspects of the task. | | | | | |
| 8 hrs. (Th.) + 32 hrs. (Pr.) = 40 hrs. (Hrs.) | | | Time (Hrs.) | | |

| SN | Tasks | Related technical knowledge | Th. | Pr. | Tot. |
|----|--|--|-----|-----|------|
| 1. | Prepare wax pattern for crown/ Bridge | <u>Preparing wax pattern for crown/ Bridge:</u> <ul style="list-style-type: none"> • Concept, need and importance of wax patterns / crown/ bridge/ preparing wax patterns for crown/ bridge • Identification and application of wax patterns / crown/ bridge • Principles and procedures for preparing wax pattern for crown/ Bridge • Preparing wax pattern for crown/ Bridge • Related precautions to be taken • Related records to be taken | 2 | 7 | 9 |
| 2. | Dewax pattern by boiling water | <u>Dewaxing pattern by boiling water:</u> <ul style="list-style-type: none"> • Concept, need and importance of dawaaxed pattern/ dewaxing pattern • Identification and application of dawaaxed pattern • Principles and procedures for dewaxing pattern by boiling water • Dewaxing pattern by boiling water • Related precautions to be taken • Related records to be taken | 2 | 7 | 9 |
| 3. | Brush cold mold seal | <u>Brushing cold mold seal:</u> <ul style="list-style-type: none"> • Concept, need and importance of brushed cold mold seal/ brushing cold mold seal • Identification and application of brushed cold mold seal • Principles and procedures for brushing cold mold seal • Brushing cold mold seal | 2 | 6 | 8 |

| | | | | | |
|--|-----------------------------------|---|-------------|-----|------|
| | | <ul style="list-style-type: none"> • Related precautions to be taken • Related records to be taken | | | |
| 4. | Cure Acrylic pattern | <u>Curing Acrylic pattern:</u> <ul style="list-style-type: none"> • Concept, need and importance of Acrylic pattern/ cured Acrylic pattern • Identification and application of Acrylic pattern/ cured Acrylic pattern • Principles and procedures for curing Acrylic pattern • Curing Acrylic pattern • Related precautions to be taken • Related records to be taken | 1 | 6 | 7 |
| 5. | Finish Acrylic pattern | <u>Finishing Acrylic pattern:</u> <ul style="list-style-type: none"> • Concept, need and importance of finished Acrylic pattern • Identification and application of finished Acrylic pattern • Principles and procedures for finishing Acrylic pattern • Finishing Acrylic pattern • Related precautions to be taken • Related records to be taken | 1 | 6 | 7 |
| | Sub-total: | | 8 | 32 | 40 |
| Sub module: 2: Bite Rest (Mouth Guard) | | | | | |
| Description: It includes knowledge and skills related to the preparation of Bite Rest (Mouth Guard). | | | | | |
| Objective: | | | | | |
| <ul style="list-style-type: none"> • To prepare Bite Rest (Mouth Guard) | | | | | |
| Task: Each task includes task statement, related technical knowledge necessary to know for carrying out the task in a professional way and the time allocation for both the theory and practical aspects of the task. | | | | | |
| 6 hrs. (Th.) + 26 hrs. (Pr.) = 32 hrs. (Hrs.) | | | Time (Hrs.) | | |
| SN | Tasks | Related technical knowledge | Th. | Pr. | Tot. |
| 1. | Prepare wax pattern for bite rest | <u>Preparing wax pattern for bite rest:</u> <ul style="list-style-type: none"> • Concept, need and importance of preparing wax | 1.5 | 6.5 | 8 |

| | | | | | |
|----|------------------------------|--|-----|-----|---|
| | | <p>pattern for bite rest</p> <ul style="list-style-type: none"> • Identification and application of wax pattern for bite rest • Principles and procedures for preparing wax pattern for bite rest • Preparing wax pattern for bite rest • Related precautions to be taken • Related records to be taken | | | |
| 2. | Dewax pattern for bite rest | <p><u>Dewaxing pattern for bite rest:</u></p> <ul style="list-style-type: none"> • Concept, need and importance of dewaxing/ dewaxed patterns • Identification and application of dewaxed patterns • Principles and procedures for dewaxing patterns for bite rest • Dewaxing patterns for bite rest • Related precautions to be taken • Related records to be taken | 1.5 | 6.5 | 8 |
| 3. | Cure pattern for bite rest | <p><u>Curing pattern for bite rest:</u></p> <ul style="list-style-type: none"> • Concept, need and importance of curing /cured patterns for bite rest • Identification and application of cured patterns • Principles and procedures for curing patterns for bite rest • Curing patterns for bite rest • Related precautions to be taken • Related records to be taken | 1.5 | 6.5 | 8 |
| 4. | Finish pattern for bite rest | <p><u>Finishing pattern for bite rest:</u></p> <ul style="list-style-type: none"> • Concept, need and importance of finishing/finished patterns for bite rest • Identification and application | 1.5 | 6.5 | 8 |

| | | of finished patterns for bite rest <ul style="list-style-type: none"> Principles and procedures for finishing pattern for bite rest Finishing pattern for bite rest Related precautions to be taken Related records to be taken | | | |
|--|--|--|-----|-------------|------|
| | | Sub-total: | 6 | 26 | 32 |
| Module: 4: Repair and Maintenance | | | | | |
| | Description: It includes knowledge and skills on related repair and maintenance works. | | | | |
| | Objectives: <ul style="list-style-type: none"> To perform related repair and maintenance works | | | | |
| | Task: Each task includes task statement, related technical knowledge necessary to know for carrying out the task in a professional way and the time allocation for both the theory and practical aspects of the task. | | | | |
| | 2 hrs. (Th.) + 14 hrs. (Pr.) = 16 hrs. (Hrs.) | | | Time (Hrs.) | |
| SN | Tasks | Related technical knowledge | Th. | Pr. | Tot. |
| 1. | Repair RPD | <u>Repair of RPD:</u> <ul style="list-style-type: none"> Concept of repairing RPD Identification of Identification of repairing needs of RPD Principle and procedures for repairing RPD Repairing of RPD Related precautions to be taken Related records to be kept | 0.5 | 3.5 | 4 |
| 2. | Repair CD | <u>Repair of CD:</u> <ul style="list-style-type: none"> Concept of repairing CD Identification of CD Identification of repairing needs of CD Principle and procedures for repairing CD Repairing of CD Related precautions to be taken Related records to be kept | 0.5 | 3.5 | 4 |
| 3. | Repair Orthodontic Plate | <u>Repair of Orthodontic Plate:</u> | 0.5 | 3.5 | 4 |

| | | | | | |
|----|--|---|-----------|------------|------------|
| | | <ul style="list-style-type: none"> • Concept of repairing Orthodontic Plate • Identification of Orthodontic Plate • Identification of repairing needs of Orthodontic Plate • Principle and procedures for repairing Orthodontic Plate • Repairing of Orthodontic Plate • Related precautions to be taken • Related records to be kept | | | |
| 4. | Repair/maintain hanging motor unit /burs/micro motor | <u>Repairing/maintaining hanging motor unit /burs/micro motor:</u> <ul style="list-style-type: none"> • Concept of repairing/maintaining hanging motor unit /burs/micro motor • Identification of hanging motor unit /burs/micro motor • Identification of repairing needs of hanging motor unit /burs/micro motor • Principle and procedures for repairing/maintaining hanging motor unit /burs/micro motor • Repairing /maintaining of hanging motor unit /burs/micro motor • Related precautions to be taken • Related records to be kept | 0.5 | 3.5 | 4 |
| | Sub-total: | | 2 | 14 | 16 |
| | Total: | | 62 | 258 | 320 |

.....

.....

| | | |
|---------------------------------|---|--|
| Module: 5: Common module | | |
| Description: | This module consists of skills and knowledge related to applied math, occupational health and safety, HIV/AIDS, first aid, communication, and small business management applicable in the related job performances. | |
| Objectives: | After its completion the trainees will be able: | |

| | | | | | |
|----|--|---|-----|-----|------|
| | <ul style="list-style-type: none"> To carry out simple mathematical calculations related to the occupation To be familiar with hazards related to this occupation To apply preventive measures for occupational health and safety To apply first aid measures To apply preventive measures for HIV/AIDS To communicate with others To apply skills of small business management | | | | |
| | Sub modules: <ol style="list-style-type: none"> Applied math Occupational health and safety First aid HIV/AIDS Communication Small business management | | | | |
| | Sub module: 1: Applied math | | | | |
| | Description: It consists of skills and knowledge related to mathematical calculations applicable in the related occupational performances. | | | | |
| | Objective: After its completion the trainees will be able: <ul style="list-style-type: none"> To carry out simple mathematical calculations that must be done for the effective performance in the occupational job. | | | | |
| | Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks/skills/steps together with their related technical knowledge: | | | | |
| | Th. (4 hrs.) + Pr. (16hrs) = Tot. (20 hrs.) | | | | |
| | Time (hrs.) | | | | |
| SN | Tasks or skills/ steps | Related technical knowledge | Th. | Pr. | Tot. |
| 1. | Carry out simple addition applicable in job situation | <u>Addition:</u> <ul style="list-style-type: none"> Concept Simple calculations Application in the occupation | 0.2 | 0.8 | 1 |
| 2. | Carry out simple subtraction applicable in job situation | <u>Subtraction:</u> <ul style="list-style-type: none"> Concept Simple calculations Application in the occupation | 0.2 | 0.8 | 1 |
| 3. | Carry out simple multiplication applicable in job situation | <u>Multiplication</u> <ul style="list-style-type: none"> Concept Simple calculations Application in the occupation | 0.2 | 0.8 | 1 |
| 4. | Carry out simple division applicable in job situation | <u>Division:</u> <ul style="list-style-type: none"> Concept Simple calculations Application in the occupation | 0.2 | 0.8 | 1 |
| 5. | Carry out measurements | <u>Measurement:</u> <ul style="list-style-type: none"> Concept | 0.2 | 0.8 | 1 |

| | | | | | |
|-----|--|--|-----|-----|---|
| | | <ul style="list-style-type: none"> • Application in the occupation | | | |
| 6. | Convert units of measurement | <u>Units of measurement:</u> <ul style="list-style-type: none"> • Concept • Units of measurement • Unit conversion • Application | 0.2 | 0.8 | 1 |
| 7. | Convert units of measuring temperature | <u>Units of measuring temperature:</u> <ul style="list-style-type: none"> • Concept • Units of temperature measurement • Unit conversion • Application | 0.2 | 0.8 | 1 |
| 8. | Calculate area | <u>Area:</u> <ul style="list-style-type: none"> • Concept • Formula • Calculation • Application | 0.2 | 0.8 | 1 |
| 9. | Calculate volume | <u>Volume:</u> <ul style="list-style-type: none"> • Concept • Formula • Calculation • Application | 0.2 | 0.8 | 1 |
| 10. | Calculate weight | <u>Weight:</u> <ul style="list-style-type: none"> • Concept • Formula • Calculation • Application | 0.2 | 0.8 | 1 |
| 11. | Calculate percentage | <u>Percentage:</u> <ul style="list-style-type: none"> • Concept • Formula • Calculation • Application | 0.2 | 0.8 | 1 |
| 12. | Calculate ratio and proportions | <u>Ratio and proportions:</u> <ul style="list-style-type: none"> • Concept • Formula • Calculation • Application | 0.2 | 0.8 | 1 |
| 13. | Apply Pythagoras formula | <u>Pythagoras formula:</u> <ul style="list-style-type: none"> • Concept • Formula | 0.2 | 0.8 | 1 |

| | | | | | |
|--|------------------------------|---|----------|-----------|-----------|
| | | <ul style="list-style-type: none"> • Calculation • Application | | | |
| 14. | Apply unitary method | <u>Unitary method:</u> <ul style="list-style-type: none"> • Concept • Calculation • Application | 0.2 | 0.8 | 1 |
| 15. | Calculate simple interest | <u>Simple interest:</u> <ul style="list-style-type: none"> • Concept • Formula • Calculation • Application | 0.2 | 0.8 | 1 |
| 16. | Calculate unit cost | <u>Unit cost:</u> <ul style="list-style-type: none"> • Concept • Formula • Calculation • Application | 0.2 | 0.8 | 1 |
| 17. | Calculate per unit income | <u>Per unit income:</u> <ul style="list-style-type: none"> • Concept • Formula • Calculation • Application | 0.2 | 0.8 | 1 |
| 18. | Calculate profit and loss | <u>Profit and loss:</u> <ul style="list-style-type: none"> • Concept • Formula • Calculation • Application | 0.2 | 0.8 | 1 |
| 19. | Perform billing | <u>Billing:</u> <ul style="list-style-type: none"> • Concept • Calculation • Bill format • Procedure • Application | 0.2 | 0.8 | 1 |
| 20. | Prepare simple balance sheet | <u>Balance sheet:</u> <ul style="list-style-type: none"> • Concept • Format • Procedure • Application | 0.2 | 0.8 | 1 |
| | Total: | | 4 | 16 | 20 |
| Sub module: 2: Occupational health and safety | | | | | |
| Description: It consists of skills and knowledge related to occupational health and | | | | | |

| | safety applicable in the related occupational performances | | | | |
|---|--|---|----------|-------------|----------|
| | Objectives: After its completion the trainees will be able: <ul style="list-style-type: none"> To be familiar with hazards related to this occupation To apply preventive measures for occupational health and safety | | | | |
| | Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks/skills/steps together with their related technical knowledge: | | | | |
| | Th. (2 hrs.) + Pr. (8hrs) = Tot. (10 hrs.) | | | Time (hrs.) | |
| SN | Tasks or skills/ steps | Related technical knowledge | Th. | Pr. | Tot. |
| Be familiar with hazards related to this occupation | | | | | |
| 1. | Be familiar with accident hazards | <u>Accident hazards:</u> <ul style="list-style-type: none"> Concept Causes Procedures for managing this hazard | 0.2 | 0.8 | 1 |
| 2. | Be familiar with physical hazards | <u>Physical hazards:</u> <ul style="list-style-type: none"> Concept Causes Procedures for managing this hazard | 0.2 | 0.8 | 1 |
| 3. | Be familiar with chemical hazards | <u>Chemical hazards:</u> <ul style="list-style-type: none"> Concept Causes Procedures for managing this hazard | 0.2 | 0.8 | 1 |
| 4. | Be familiar with biological hazards | <u>Biological hazards:</u> <ul style="list-style-type: none"> Concept Causes Procedures for managing this hazard | 0.2 | 0.8 | 1 |
| 5. | Be familiar with ergonomic/psychological / organizational factors: | <u>Ergonomic /psychological / organizational factors:</u> <ul style="list-style-type: none"> Concept of : <ul style="list-style-type: none"> Ergonomic factors Psychological factors organizational factors Procedures for managing hazards caused by these factors | 0.2 | 0.8 | 1 |
| | Sub-total: | | 1 | 4 | 4 |
| Apply preventive measures for occupational health and safety | | | | | |
| 1. | Wear safety wares | <u>Safety wares:</u> <ul style="list-style-type: none"> Identification Needs | 0.2 | 0.5 | 0.7 |

| | | | | | |
|----|--|--|----------|----------|-----------|
| | | <ul style="list-style-type: none"> • Wearing procedures | | | |
| 2. | Inspect workplace before working | <u>Workplace inspection:</u> <ul style="list-style-type: none"> • Concept • Principle and procedures • Records keeping | 0.2 | 0.5 | 0.7 |
| 3. | Inspect tools/materials/equipment before use | <u>Inspection of tools/materials/equipment:</u> <ul style="list-style-type: none"> • Concept and identification • Principle and procedures • Records keeping | 0.1 | 0.5 | 0.6 |
| 4. | Be prevented from accident hazards | <u>Prevention of accident hazards:</u> <ul style="list-style-type: none"> • Concept • Being prevented from accident hazards • Records keeping | 0.1 | 0.5 | 0.6 |
| 5. | Be prevented from physical hazards | <u>Prevention of physical hazards:</u> <ul style="list-style-type: none"> • Concept • Being prevented from physical hazards • Records keeping | 0.1 | 0.5 | 0.6 |
| 6. | Be prevented from chemical hazards | <u>Prevention of chemical hazards:</u> <ul style="list-style-type: none"> • Concept • Being prevented from chemical hazards • Records keeping | 0.1 | 0.5 | 0.6 |
| 7. | Be prevented from biological hazards | <u>Prevention of biological hazards:</u> <ul style="list-style-type: none"> • Concept • Being prevented from biological hazards • Records keeping | 0.1 | 0.5 | 0.6 |
| 8. | Be prevented from ergonomic/psychological / organizational factors that create problems/hazards. | <u>Prevention of ergonomic/psychological / organizational factors that create problems/hazards:</u> <ul style="list-style-type: none"> • Concept • Being prevented from ergonomic/psychological / organizational factors that create problems/hazards • Records keeping | 0.1 | 0.5 | 0.6 |
| | Sub-total: | | 1 | 4 | 5 |
| | Total: | | 2 | 8 | 10 |

| Sub module: 3: First aid | | | | | |
|---------------------------------|--|--|------|------|-------------|
| | Description: It consists of skills and knowledge related to first aid measures applicable in the related occupational performances. | | | | |
| | Objective: After its completion the trainees will be able: <ul style="list-style-type: none"> • To apply first aid measures | | | | |
| | Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks/skills/steps together with their related technical knowledge: | | | | |
| | Th. (1 hrs.) + Pr. (4hrs) = Tot. (5 hrs.) | | | | Time (hrs.) |
| SN | Tasks or skills/ steps | Related technical knowledge | Th. | Pr. | Tot. |
| 1. | Carryout simple dressings | <u>Carryout simple dressings:</u> <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | 0.10 | 0.40 | 0.5 |
| 2. | Apply simple bandages | <u>Apply simple bandages:</u> <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | 0.10 | 0.40 | 0.5 |
| 3. | Apply first aid for simple wounds | <u>Apply first aid for simple wounds:</u> <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | 0.10 | 0.40 | 0.5 |
| 4. | Apply first aid for heat /chemical burns | <u>Apply first aid for heat /chemical burns:</u> <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | 0.10 | 0.40 | 0.5 |
| 5. | Apply first aid for injuries/cuts | <u>Apply first aid for injuries/cuts:</u> <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | 0.10 | 0.40 | 0.5 |
| 6. | Apply first aid for fracture | <u>Apply first aid for fracture:</u> | 0.10 | 0.40 | 0.5 |

| | | | | | |
|-----|--------------------------------------|---|------|------|------|
| | | <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | | | |
| 7. | Apply first aid for simple bleeding | <u>Apply first aid for simple bleeding:</u> <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | 0.10 | 0.40 | 0.5 |
| 8. | Apply first aid for insect bites | <u>Apply first aid for insect bites:</u> <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | 0.05 | 0.20 | 0.25 |
| 9. | Apply first aid for animal bites | <u>Apply first aid for animal bites:</u> <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | 0.05 | 0.20 | 0.25 |
| 10. | Apply first aid for frost bite | <u>Apply first aid for frost bite :</u> <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | 0.05 | 0.20 | 0.25 |
| 11. | Apply first aid for simple poisoning | <u>Apply first aid for simple poisoning:</u> <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | 0.05 | 0.20 | 0.25 |
| 12. | Apply first aid for electrical shock | <u>Apply first aid for electrical shock:</u> <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | 0.05 | 0.20 | 0.25 |
| 13. | Apply first aid for choking/ | <u>Apply first aid for choking/</u> | 0.05 | 0.20 | 0.25 |

| | drowning | <u>drowning</u> : <ul style="list-style-type: none"> • Concept • Needs • Procedures • Precautions • Recording | | | |
|--------------------------------|---|--|-------------|----------|----------|
| | Total: | | 1 | 4 | 5 |
| Sub module: 4: HIV/AIDS | | | | | |
| | Description: It consists of skills and knowledge related to safety measures to be followed for the prevention of HIV/AIDS including its management. | | | | |
| | Objectives: After its completion the trainees will be able: <ul style="list-style-type: none"> • To state the concept of HIV/AIDS • To apply safety measures for prevention of HIV/AIDS | | | | |
| | Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks/skills/steps together with their related technical knowledge: | | | | |
| | Th.(1 hrs) + Pr.(4hrs) = Tot.(5 hrs) | | Time(hrs) | | |
| SN | Tasks or skills/ steps | Related technical knowledge | Th. | Pr. | Tot. |
| 1. | State the concept of HIV/AIDS 1. Define HIV 2. Enlist modes of transmission of HIV 3. Enlist signs and symptoms of HIV infected person 4. Enlist stages of HIV 5. Define AIDS 6. Enlist signs and symptoms of AIDS 7. Enlist current status of global HIV/AIDS 8. Enlist difference between HIV/AIDS | <u>State the concept of HIV/AIDS:</u> <u>HIV:</u> <ul style="list-style-type: none"> • Definition of HIV: • Modes of transmission of HIV • Signs and symptoms of HIV infected person • Stages of HIV <u>AIDS:</u> <ul style="list-style-type: none"> • Definition of AIDS • Signs and symptoms of AIDS • Current status of global HIV/AIDS • Difference between HIV and AIDS | 0.5 | 2 | 2.5 |
| 2. | Apply safety measures for prevention of HIV/AIDS: 1. Keep touch with single partner for sexual intercourse 2. Ensure safe intercourse 3. Use condom carefully and consistently during each act of sexual intercourse in case of other than single sex | <u>Apply safety measures for prevention of HIV/AIDS:</u> <ul style="list-style-type: none"> • Keeping touch with single partner for sexual intercourse • Ensuring safe intercourse • Using condom carefully and consistently during each act of sexual intercourse in case of other than single sex partner | 0.5 | 2 | 2.5 |

| | | | | | |
|---|--|--|-----|-----|------|
| | partner 4. Keep away from sharing syringes, needles and other skin piercing instrument with HIV infected people 5. Keep away from sharing toothbrushes, blade razors or other instruments that could become contaminated from blood 6. Keep away from handling clothes or cloths that are visibly contaminated with blood 7. Follow positive health behavior 8. Get blood be tested to ensure HIV negative/positive | <ul style="list-style-type: none"> • Keeping away from sharing syringes, needles and other skin piercing instrument with HIV infected people • Keeping away from sharing toothbrushes, blade razors or other instruments that could become contaminated from blood • Keeping away from handling clothes or cloths that are visibly contaminated with blood • Positive health behavior • Getting blood be tested to ensure HIV negative/positive | | | |
| | Total: | | 1 | 4 | 5 |
| Sub module: 5: Communication | | | | | |
| Description: It consists of the skills and knowledge related to communication in the related occupation. Each task consists of its steps, related technical knowledge and hour distribution. | | | | | |
| Objectives: After its completion the trainees will be able: | | | | | |
| | <ul style="list-style-type: none"> • To handle telephone calls • To handle fax • To handle mail • To write letters • To write memos / tips / notes / notice • To perform internal communication • To perform external communication • To perform oral communication • To perform written communication | <ul style="list-style-type: none"> • To communicate with donors To communicate with financial institutes • To link with media • To disseminate information • Write job application • Prepare Resume. • Communicate with senior. • Communicate with juniors. • Deal with customers • Request / purchase tool, supplies, materials and equipment. • Fill up leave requisition form. | | | |
| Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks/skills/steps together with their related technical knowledge: | | | | | |
| Th. (2 hrs.) + Pr. (8hrs) = Tot. (10 hrs.) | | | | | |
| Time (hrs.) | | | | | |
| SN | Tasks or skills/ steps | Related technical knowledge | Th. | Pr. | Tot. |

| | | | | | |
|----|-------------------------------------|--|-----|-----|-----|
| 1. | Handle telephone calls | <u>Handling telephone calls:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Operating principles and procedures • Care and maintenance • Safety precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 2. | Handle fax | <u>Handling fax:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Operating principles and procedures • Care and maintenance • Safety precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 3. | Handle mail | <u>Handling mail:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Operating principles and procedures • Care and maintenance • Safety precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 4. | Write letters | <u>Writing letters:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Types of letter • Component parts of each type of letter • Format of each type of letter • Writing letters • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 5. | Write memos / tips / notes / notice | <u>Writing memos / tips / notes / notice:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Component parts of memos / tips / notes / notice • Format of memos / tips / notes / notice • Writing memos / tips / notes / notice • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 6. | Prepare simple report | <u>Preparing simple report:</u> <ul style="list-style-type: none"> • Concept, need, and importance | 0.1 | 0.4 | 0.5 |

| | | | | | |
|-----|---|--|-----|-----|-----|
| | | <ul style="list-style-type: none"> • Component parts of a report • Format of a report • Writing a report • Precautions to be taken • Keeping activity records | | | |
| 7. | Prepare simple proposal | <u>Preparing simple proposal:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Component parts of a proposal • Format of a proposal • Writing a proposal • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 8. | Perform internal/ external communication | <u>Performing internal/ external communication:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Principles, procedures, and application • Performing internal/ external communication • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 9. | Perform horizontal/vertical communication | <u>Performing horizontal/vertical communication:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Principles, procedures, and application • Performing horizontal/vertical communication • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 10. | Perform oral/ written communication | <u>Performing oral/ written communication:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Principles, procedures, and application • Performing oral/ written communication • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 11. | Communicate with financial institutes | <u>Communicating with financial institutes:</u> <ul style="list-style-type: none"> • Concept, need, and importance | 0.1 | 0.4 | 0.5 |

| | | | | | |
|-----|--------------------------|---|-----|-----|-----|
| | | <ul style="list-style-type: none"> Principles, procedures, and application Communicating with financial institutes Precautions to be taken Keeping activity records | | | |
| 12. | Link with media | <u>Linking with media:</u> <ul style="list-style-type: none"> Concept, need, and importance Principles, procedures, and application Linking with media Precautions to be taken Keeping activity records | 0.1 | 0.4 | 0.5 |
| 13. | Disseminate information | <u>Disseminating information:</u> <ul style="list-style-type: none"> Concept, need, and importance Principles, procedures, and application Disseminating information Precautions to be taken Keeping activity records | 0.1 | 0.4 | 0.5 |
| 14. | Write job application | <u>Writing job application:</u> <ul style="list-style-type: none"> Concept, need, and importance Component parts of job application Format of job application Writing job applications Precautions to be taken Keeping activity records | 0.1 | 0.4 | 0.5 |
| 15. | Prepare resume | <u>Preparing resume:</u> <ul style="list-style-type: none"> Concept, need, and importance Component parts of a resume Format of a resume Writing resume Precautions to be taken Keeping activity records | 0.1 | 0.4 | 0.5 |
| 16. | Communicate with senior. | <u>Communicating with senior:</u> <ul style="list-style-type: none"> Concept, need, and importance Principles, procedures, and application Communicating with senior Precautions to be taken Keeping activity records | 0.1 | 0.4 | 0.5 |

| | | | | | |
|--|--|--|----------|-------------|-----------|
| 17. | Communicate with juniors. | <u>Communicating with juniors:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Principles, procedures, and application • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 18. | Deal with customers/stake holders | <u>Dealing with customers/stake holders:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Principles, procedures, and application • Communicating with juniors • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 19. | Request / purchase tool, supplies, materials and equipment. | <u>Requesting / purchasing tool, supplies, materials and equipment:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Principles, procedures, and application • Requesting / purchasing tool, supplies, materials and equipment • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 20. | Fill up leave requisition form | <u>Filling up leave requisition form:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Principles, procedures, and application • Filling up leave requisition form • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| | | Total: | 2 | 8 | 10 |
| Sub module: 6: Small enterprise development | | | | | |
| | Description: It consists of the skills and knowledge related to small enterprise development in the related occupation. Each task consists of its steps, related technical knowledge and hour distribution. | | | | |
| | Objectives: After its completion the trainees will be able: <ul style="list-style-type: none"> • To be familiar with entrepreneurship development • To prepare a business plan | | | | |
| | Tasks: To fulfill the objective the trainees are expected to get proficiency on the following tasks/skills/steps together with their related technical knowledge: | | | | |
| | Th. (4 hrs.) + Pr. (16 hrs.) = Tot. (20 hrs.) | | | Time (hrs.) | |

| SN | Tasks or skills/ steps | Related technical knowledge | Th. | Pr. | Tot. |
|----|---|---|-----|-----|------|
| | <u>Entrepreneurship development:</u> | <u>Entrepreneurship development:</u> | | | |
| 1. | Be familiar with business / entrepreneurship | <u>Business / entrepreneurship:</u> <ul style="list-style-type: none"> • Concept, definitions, need, and importance • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 2. | Develop qualities of a successful entrepreneur | <u>Qualities of a successful entrepreneur:</u> <ul style="list-style-type: none"> • Concept and needs • Qualities of a successful entrepreneur • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 3. | Follow professional ethics | <u>Professional ethics:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Professional ethics • Interpretation • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 4. | Analyze prevailing rules / regulations/ laws /acts related to the profession | <u>Prevailing rules / regulations/ laws /acts related to the profession:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Prevailing rules / regulations/ laws /acts related to the profession • Interpretation • Precautions to be taken • Keeping activity records | 0.1 | 0.4 | 0.5 |
| 5. | Develop skills of good governance | <u>Good governance:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Principles and procedures of good governance • Precautions to be taken • Keeping activity re | 0.1 | 0.4 | 0.5 |
| 6. | Be familiar with entrepreneurship development/ factors affecting the growth of entrepreneurship | <u>Entrepreneurship development/ factors affecting the growth of entrepreneurship:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Entrepreneurship development • Factors affecting the growth of entrepreneurship | 0.1 | 0.4 | 0.5 |

| | | | | | |
|-----|--|---|-----|-----|-----|
| | | <ul style="list-style-type: none"> • Precautions to be taken • Keeping records | | | |
| 7. | Develop an entrepreneurship competency development [ECD] program | <u>Entrepreneurship competency development [ECD] program:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Entrepreneurship competency development [ECD] • ECD program development • Precautions to be taken • Keeping records | 0.1 | 0.4 | 0.5 |
| 8. | Be familiar with identification / selection/appraising/gaining instructional a support of a project <ul style="list-style-type: none"> • Be familiar with identification of a project • Be familiar with selection of a project • Be familiar with appraising of a project • Be familiar with gaining instructional a support of a project | <u>Identification / selection/appraising/gaining instructional a support of a project:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Identification of a project • Selection of a project • Appraising of a project • Gaining instructional a support of a project • Precautions to be taken • Keeping records | 0.1 | 0.4 | 0.5 |
| 9. | Be familiar with the preparation of a comprehensive business plan for starting / acquiring /running a business | <u>Be familiar with the preparation of a comprehensive business plan for starting / acquiring /running a business:</u> <ul style="list-style-type: none"> • Preparation of a comprehensive business plan for starting a business • Preparation of a comprehensive business plan for acquiring a business • Preparation of a comprehensive business plan for running a business • Precautions to be taken • Keeping records | 0.1 | 0.4 | 0.5 |
| 10. | Be familiar with marketing of products | <u>Be familiar with marketing of products:</u> <ul style="list-style-type: none"> • Concept of product, price, place, promotion • marketing of products | 0.1 | 0.4 | 0.5 |

| | | | | | |
|-----|------------------------------------|--|-----|-----|---|
| | | <ul style="list-style-type: none"> • Precautions to be taken • Keeping records | | | |
| | | Sub-total: | 1 | 4 | 5 |
| | Business plan: | Business plan: | | | |
| 11. | Collect related information / data | <u>Collecting related information / data:</u> <ul style="list-style-type: none"> • Concept, need, and importance of data and information • Difference between data and information • Principles and procedures for collecting related information / data • Collecting related information / data • Precautions to be taken • Keeping records | 0.4 | 1.6 | 2 |
| 12. | Prepare production plan | <u>Preparing production plan:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Component parts • Format • Principles and procedures • Precautions to be taken • Keeping records | 0.4 | 1.6 | 2 |
| 13. | Prepare cost plan | <u>Preparing cost plan:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Component parts • Format • Principles and procedures • Precautions to be taken • Keeping records | 0.4 | 1.6 | 2 |
| 14. | Prepare financial plan | <u>Preparing financial plan:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Component parts • Format • Principles and procedures • Precautions to be taken • Keeping records | 0.4 | 1.6 | 2 |
| 15. | Prepare marketing plan | <u>Preparing marketing plan:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Component parts • Format • Principles and procedures | 0.4 | 1.6 | 2 |

| | | | | | |
|------------|-------------------------|---|----------|------------|------------|
| | | <ul style="list-style-type: none"> • Precautions to be taken • Keeping records | | | |
| 16. | Prepare a business plan | <u>Preparing a business plan:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Component parts • Format • Principles and procedures • Precautions to be taken • Keeping records | 0.6 | 2.4 | 3 |
| 17. | Appraise business plan | <u>Appraising business plan:</u> <ul style="list-style-type: none"> • Concept, need, and importance • Principles and procedures • Precautions to be taken • Keeping records | 0.4 | 1.6 | 2 |
| | | Sub-total: | 3 | 12 | 15 |
| | | Total: | 4 | 16 | 20 |
| | | Common module total: | 14 | 56 | 70 |
| | | All total: | 3 | 314 | 390 |
| | | | | | |

Appendices

| | | | |
|--|--|--|--|
| Reading materials | | | |
| <ul style="list-style-type: none"> Dental Materials - Mannapali | <ul style="list-style-type: none"> Publication of Ministry Of Health on “Infection control in dentistry” | <ul style="list-style-type: none"> Instructor selected books/manuals available in the market Instructor written books/manuals | <ul style="list-style-type: none"> Net search |
| Equipment | | | |
| <ul style="list-style-type: none"> Acrylizer Hanging Motor Unit/Micromotor Model Trimmer | <ul style="list-style-type: none"> Dental Lathe Cut Vibrator | <ul style="list-style-type: none"> Boiler Gas Set Hydrolic Press | |
| Instruments | | | |
| <ul style="list-style-type: none"> Acrylic Trimming Burs Bunsen Burner Spirit Lamp Wax Knife Plaster Knife | <ul style="list-style-type: none"> Wax spatula Rubber Bowl Straight Spatula Curved Spatula | <ul style="list-style-type: none"> Articulator Metal scale Lacron Carver Macintosh Sheet Sand Paper mandril | |
| Materials | | | |
| <ul style="list-style-type: none"> Dental Stone Dental Plaster Die Stone Alginate Separating Media Self cure acrylic:RR(Liquid/Powder) | <ul style="list-style-type: none"> Heat cure acrylic (Travelon) Sand paper Modeling Wax Shellac Base plate Acrylic Teeth Set(Premadent/Cosmo) | <ul style="list-style-type: none"> Stainless steel wire(.21G,22G) Disposable Syringe(5ml,10ml) Spirit Cotton/Gauze | |

List of modules, sub modules and time allocation

| SN | Tasks | Th. | Pr. | Tot. |
|----|---|-------------|-----|------|
| | Module: 1: Materials, equipment, instruments and safety | | | |
| | Sub modules: 1: Materials/Equipment/Instruments 2: Laboratory Safety | | | |
| | | | | |
| | Sub module: 1: Materials/Equipment/Instruments | | | |
| | 10 hrs. (Th.) + 38 hrs. (Pr.) = 48 hrs. (Hrs.) | Time (Hrs.) | | |
| SN | Tasks | Th. | Pr. | Tot. |
| 1. | Be familiar with Gypsum products and its types | 1 | 6 | 7 |
| 2. | Be familiar with Wax and its types used in dentistry | 1 | 6 | 7 |
| 3. | Be familiar with Resins and its types used in dentistry | 1 | 6 | 7 |
| 4. | Be familiar with impression material (Alginate, compound) | 2 | 6 | 8 |
| 5. | Be familiar with instruments and equipment used in Laboratory | 4 | 8 | 12 |
| 6. | Minimize wastage of materials | 1 | 6 | 7 |
| | Sub-total: | 10 | 38 | 48 |
| | Sub module: 2: Laboratory Safety | | | |
| | 8 hrs. (Th.) + 32 hrs. (Pr.) = 40 hrs. (Hrs.) | Time (Hrs.) | | |
| SN | Tasks | Th. | Pr. | Tot. |
| 1. | Control cross infection in Laboratory | 1.6 | 6.4 | 8 |
| 2. | Adopt Universal Precaution in Laboratory | 1.6 | 6.4 | 8 |
| 3. | Minimize hazards from dental materials | 1.6 | 6.4 | 8 |
| 4. | Disinfect the dental cast | 1.6 | 6.4 | 8 |
| 5. | Dispose laboratory waste | 1.6 | 6.4 | 8 |
| | Sub-total: | 8 | 32 | 40 |
| | Module: 2: Fabrication | | | |
| | Sub modules: 1: Removable Partial Denture (RPD) 2: Complete Denture (CD) 3: Ortho Plate | | | |
| | Sub module: 1: Removable Partial Denture (RPD) | | | |
| | 10 hrs. (Th.) + 38 hrs. (Pr.) = 48 hrs. (Hrs.) | Time (Hrs.) | | |
| SN | Tasks | Th. | Pr. | Tot. |
| 1. | Manipulate impression material(Alginate) | 1 | 4 | 5 |
| 2. | Pour dental cast (Plaster/stone) | 1 | 4 | 5 |
| 3. | Prepare Wax Plate | 1 | 4 | 5 |
| 4. | Arrange teeth | 1 | 4 | 5 |
| 5. | Process denture (Perform flasking/dewaxing | 4 | 14 | 18 |

| | | | | |
|----|--|-------------|-----|------|
| | /packing/curing) | | | |
| 6. | Perform Trimming/ Finishing /Polishing | 2 | 8 | 10 |
| | Sub-total: | 10 | 38 | 48 |
| | Sub module: 2: Complete Denture (CD) | | | |
| | 8 hrs. (Th.) + 32 hrs. (Pr.) = 40 hrs. (Hrs.) | Time (Hrs.) | | |
| SN | Tasks | Th. | Pr. | Tot. |
| 1. | Prepare Custom tray | 1.6 | 6 | 7.6 |
| 2. | Prepare temporary denture base and occlusal Rim | 1.6 | 6 | 7.6 |
| 3. | Perform Mounting(articulation) | 1.6 | 6 | 7.6 |
| 4. | Process denture (Flasking, dewaxing,packing,curing) | 1.6 | 8 | 9.6 |
| 5. | Perform Trimming/ Finishing /Polishing | 1.6 | 6 | 7.6 |
| | Sub-total: | 8 | 32 | 40 |
| | Sub module: 3: Ortho Plate | | | |
| | 10 hrs. (Th.) + 46 hrs. (Pr.) = 56 hrs. (Hrs.) | Time (Hrs.) | | |
| SN | Tasks | Th. | Pr. | Tot. |
| 1. | Fabricate labial bow(Short/Long) | 2 | 7 | 9 |
| 2. | Fabricate Adams Clasp | 2 | 7 | 9 |
| 3. | Fabricate C-clasp | 2 | 7 | 9 |
| 4. | Fabricate spring (Z) | 1 | 7 | 8 |
| 5. | Perform processing | 1 | 6 | 7 |
| 6. | Fabricate bite plate (Anterior, posterior) | 1 | 6 | 7 |
| 7. | Fabricate Night Guard.(acrylic) | 1 | 6 | 7 |
| | Sub-total: | 10 | 46 | 56 |
| | Module: 3: Bridge and mouth guard | | | |
| | Sub modules: 1: Acrylic Temporary Crown / Bridge 2: Bite Rest (Mouth Guard) | | | |
| | Sub module: 1: Acrylic Temporary Crown / Bridge | | | |
| | 8 hrs. (Th.) + 32 hrs. (Pr.) = 40 hrs. (Hrs.) | Time (Hrs.) | | |
| SN | Tasks | Th. | Pr. | Tot. |
| 1. | Prepare wax pattern for crown/ Bridge | 2 | 7 | 9 |
| 2. | Dewax pattern By boiling water | 2 | 7 | 9 |
| 3. | Brush Cold mold seal | 2 | 6 | 8 |
| 4. | Cure Acrylic pattern | 1 | 6 | 7 |
| 5. | Finish Acrylic pattern | 1 | 6 | 7 |
| | Sub-total: | 8 | 32 | 40 |
| | Sub module: 2: Bite Rest (Mouth Guard) | | | |
| | 6 hrs. (Th.) + 26 hrs. (Pr.) = 32 hrs. (Hrs.) | Time (Hrs.) | | |
| SN | Tasks | Th. | Pr. | Tot. |
| 1. | Prepare wax pattern for bite rest | 1.5 | 6.5 | 8 |
| 2. | Dewax pattern for bite rest | 1.5 | 6.5 | 8 |
| 3. | Cure pattern for bite rest | 1.5 | 6.5 | 8 |
| 4. | Finish pattern for bite rest | 1.5 | 6.5 | 8 |

| | | | | | |
|----|--|---------------|-------------|------------|------------|
| | | Sub-total: | 6 | 26 | 32 |
| | Module: 4: Repair and Maintenance | | | | |
| | 2 hrs. (Th.) + 14 hrs. (Pr.) = 16 hrs. (Hrs.) | | Time (Hrs.) | | |
| SN | Tasks | | Th. | Pr. | Tot. |
| 1. | Repair RPD | | 0.5 | 3.5 | 4 |
| 2. | Repair CD | | 0.5 | 3.5 | 4 |
| 3. | Repair Orthodontic Plate | | 0.5 | 3.5 | 4 |
| 4. | Repair/Maintain Hanging motor unit /burs/micro motor | | 0.5 | 3.5 | 4 |
| | | Sub-total: | 2 | 14 | 16 |
| | | Total: | 62 | 258 | 320 |

Job Analysis Product *(List of duties and tasks)*

Duty: A. Handle Materials/Equipment/Instruments

Tasks:

1. Handle Gypsum products
2. Handle Wax
3. Handle Resins
4. Handle impression material (Alginate/ compound)
5. Handle instruments / equipment used in Laboratory
6. Handle wastage of materials

Duty: B. Maintain Laboratory Safety

Tasks:

1. Control cross infection in Laboratory
2. Adopt Universal Precaution in Laboratory
3. Minimize hazards from dental materials
4. Disinfect the dental cast
5. Dispose laboratory waste

Duty: C. Fabricate Removable Partial Denture (RPD)

Tasks:

1. Manipulate impression material(Alginate)
2. Pour dental cast (Plaster/stone)
3. Prepare Wax Plate
4. Arrange teeth
5. Process denture (Flasking, dewaxing,packing,curing)
6. Perform Trimming/ Finishing /Polishing

Duty: D. Fabricate Complete Denture (CD)

Tasks:

1. Prepare Custom tray
2. Prepare temporary denture base and occlusal Rim
3. Perform Mounting(articulation)
4. Process denture (Flasking, dewaxing,packing,curing)
5. Perform Trimming/ Finishing /Polishing

Duty: E. Fabricate Ortho Plate

Tasks:

1. Fabricate labial bow(Short/Long)
2. Fabricate Adams Clasp
3. Fabricate C-clasp
4. Fabricate spring (Z)
5. Perform processing
6. Fabricate bite plate (Anterior, posterior)
7. Fabricate Night Guard.(acrylic)

Duty: F. Prepare Acrylic Temporary Crown / Bridge

Tasks:

1. Prepare wax pattern for crown/ Bridge

2. Dewax pattern By boiling water
3. Brush Cold mold seal
4. Cure Acrylic pattern
5. Finish Acrylic pattern

Duty: G. Prepare Bite Rest (Mouth Guard)

Tasks:

1. Prepare wax pattern for bite rest
2. Dewax pattern for bite rest
3. Cure pattern for bite rest
4. Finish pattern for bite rest

Duty: H. Perform Repair /Maintenance

Tasks:

1. Repair RPD
2. Repair CD
3. Repair Orthodontic Plate
4. Repair/Maintain Hanging motor unit /burs/micro motor

Duty: I. Communicate with other

Tasks:

1. Communicate with Senior Dental Lab Technician
2. Communicate with Assistant Lab Technician
3. Communicate with Dental Practitioners
4. Communicate with Dental Material suppliers
5. Communicate with Hospitals
6. Communicate with store keeper
7. Communicate with Dental Clinic
8. Communicate with patient
9. Communicate with Department In charge
10. Communicate with Oral health related NGO/INGO In charges

Duty: J. Develop Professionalism

Tasks:

1. Seek training places
2. Attend trainings
3. Attend Seminars/ Workshops related to Dental lab
4. Browse WWW
5. Watch AV programs related to Dental lab
6. Read Books / Journals related to Dental lab
7. Visit Equipped Dental Laboratories
8. Visit senior Dental Lab Mechanics
9. Visit Dentists