

GENERAL TRAINING AND OCCUPATIONAL STANDARDS FOR DENTAL TECHNOLOGY

UNIT

DOSAM_4 Metal baseplates

Summary of the unit

This unit focuses on the skills needed to independently plan, design, manufacture and assess metal baseplates (~~study cast~~) for complete upper jaw prostheses or partial metal baseplates with retentive elements.

The **trainee** shall know the different classification criteria of partially dentate mouths, the operating principles of bracing, connecting and **retention components** as well as the static conditions applied to the completion of a partial dental prosthesis. After due consideration and substantiation of the various approaches, **the trainee** shall place the **study model** on a surveyor and on the basis of the material data, he shall devise manufacturing proposals. The **trainee** shall plan and design prostheses, manufacture them, ~~shall~~ carry out post-manufacturing tests and make an adequate record of his work.

The **trainee** shall master the technologies involved in the manufacturing of a metal baseplate and ~~shall~~ know the criteria guiding the determination of the path of insertion and the basic shaping of a metal baseplate **and** shall also be familiar with the spruing **techniques**.

The **trainee** shall know the requirements associated with the material features of cast alloys as well as the performance of materials during the casting process **and** shall also have a precise knowledge of the various properties of duplicating and embedding compounds, of casting wax and of modelling materials.

The **trainee** shall take into account the pre-heat parameters, **and** be able to perform the various casting and melting processes, ~~shall~~ know the requirements of pre-heat furnaces, casting and melting appliances as well as their functional range and ~~shall~~ be able to use these appliances.

The **trainee** shall also **be able to position** individual or pre-formed connection components on **study frameworks** ~~After due consideration and substantiation of the various approaches, and to choose and carry out the appropriate joining technique. If need be, he shall plan a back plate or a metallic chewing surface which will later be fitted in. He shall also take into account the manufacturing instructions regarding the retentive elements and the retention and support areas.~~

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The **trainee** shall keep in mind how influential the outcome of his work can be on the self-confidence of patients and shall therefore bear **in** mind when manufacturing the retentive elements.

Certification/ certificate¹

- Draft an allocation of tasks
 - o Project work
 - o Presentation of the results
- Develop and adopt assessment criteria

European logbook to record the training.

¹ To be defined