

DENTAL-LABORATORY TECHNICIAN

RAPIDS: 0103D

O*NET/SOC: 51-9081.00

REVISION DATE: 09/2019

TRADE DESCRIPTION: Fabricate and repair dental appliances, according to Dentist's prescription. Fabricates full or partial dentures, using wax, plastic and plaster models, articulators, grinders, and polishers. Casts plastic or plaster models of dentures to be repaired.

TASK PERFORMANCE: Demonstrate knowledge and skills for qualifying as Journeyman. Applicable Job Qualification Requirements will be used as a guide in performing tasks and demonstrating knowledge in the following skill areas. Actual work time must be recorded in the Work Experience Log; each skill area must be completed.

Applicable Ratings/MOS/NEC

USMC MOS: None

USCG: HS

USN: HM, L36A, L37A, L38A

USA MOS: None

Related Instruction:

Trade related On-The-Job-Training (OJT) or Any Trade related schools/courses totaling 216 or more hours.

Additional Requirement:

Must hold NEC 8752, 8753, or 8765. Or L36A, L37A or L38A

Total Hours: **3000**

Skill	Description	Hours
A	ADMINISTRATION AND TRAINING	100

	<ul style="list-style-type: none"> -- Read prescriptions or specifications and examine models or impressions to determine the design of dental products to be constructed. -- Train or supervise other dental technicians or dental laboratory bench workers. 	
B	<p>MECHANICAL MAINTENANCE</p> <ul style="list-style-type: none"> -- Test appliances for conformance to specifications and accuracy of occlusion, using articulators and micrometers. 	200
C	<p>FABRICATION AND MANUFACTURING</p> <ul style="list-style-type: none"> -- Melt metals or mix plaster, porcelain, or acrylic pastes and pour materials into molds or over frameworks to form dental prostheses or apparatus. -- Create a model of patients' mouth by pouring plaster into a dental impression and allowing plaster to set. -- Place tooth models on apparatus that mimics bite and movement of patient's jaw to evaluate functionality of model. -- Fabricate, alter, or repair dental devices, such as dentures, crowns, bridges, inlays, or appliances for straightening teeth. -- Remove excess metal or porcelain and polish surfaces of prostheses or frameworks, using polishing machines. -- Apply porcelain paste or wax over prosthesis frameworks or setups, using brushes and spatulas. -- Prepare metal surfaces for bonding with porcelain to create artificial teeth, using small hand tools. -- Load newly constructed teeth into porcelain furnaces to bake the porcelain onto the metal framework. -- Build and shape wax teeth, using small hand instruments and information from observations or Dentists' specifications. -- Mold wax over denture setups to form the full contours of artificial gums. -- Rebuild or replace linings, wire sections, or missing teeth to repair dentures. -- Prepare wax bite blocks and impression trays for use. -- Shape and solder wire and metal frames or bands for dental products, using soldering irons and hand tools. -- Fill chipped or low spots in surfaces of devices, using acrylic resins. 	2700