

Dental Hygienist Occupations Labor Market Information Report Chabot College

Prepared by the San Francisco Bay Center of Excellence
for Labor Market Research
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Recommendation

Based on all available data, there appears to be an undersupply of Dental Hygienist workers compared to the demand for this cluster of occupations in the Bay region and in the East Bay sub-region (Alameda and Contra Costa Counties.) There is a projected annual gap of about 2,120 students in the Bay region and 687 students in the East Bay Sub-Region when demand for Dental Hygienists and Dental Assistants is combined. If only the demand for Dental Hygienists is used (excluding Dental Assistants) and compared to the supply for TOP 1240.20 (Dental Hygienist), there is still a projected annual gap of about 421 students in the Bay region and 116 students in the East Bay Sub-Region.

This report also provides student outcomes data on employment and earnings for programs on TOP 1240.20 - Dental Hygienist in the state and region. It is recommended that these data be reviewed to better understand how outcomes for students taking courses on this TOP code compare to potentially similar programs at colleges in the state and region, as well as to outcomes across all CTE programs at Chabot College and in the region.

Introduction

This report profiles Dental Hygienist Occupations in the 12 county Bay region and in the East Bay sub-region for the program review process at Chabot College.

- Dental Hygienists (SOC 29-2021):** Clean teeth and examine oral areas, head, and neck for signs of oral disease. May educate patients on oral hygiene, take and develop x rays, or apply fluoride or sealants.
 Entry-Level Educational Requirement: Associate's degree
 Training Requirement: None
 Percentage of Community College Award Holders or Some Postsecondary Coursework: 59%
- Dental Assistants (SOC 31-9091):** Assist dentist, set up equipment, prepare patient for treatment, and keep records.
 Entry-Level Educational Requirement: Postsecondary *nondegree award*
 Training Requirement: None
 Percentage of Community College Award Holders or Some Postsecondary Coursework: 61%

Occupational Demand

Table 1. Employment Outlook for Dental Hygienist Occupations in Bay Region

Occupation	2017 Jobs	2022 Jobs	5-Yr Change	5-Yr % Change	5-Yr Openings	Average Annual Openings	10% Hourly Wage	Median Hourly Wage
Dental Hygienists	6,308	6,976	668	11%	2,611	522	\$39.42	\$53.46
Dental Assistants	12,924	14,171	1,247	10%	8,495	1,699	\$14.55	\$21.88
Total	19,232	21,147	1,915	10%	11,106	2,221	\$22.71	\$32.24

Source: EMSI 2019.1

Dental Hygienist Occupations in 12 County Bay Region and in East Bay Sub-Region, 2019

Bay Region includes Alameda, Contra Costa, Marin, Monterey, Napa, San Benito, San Francisco, San Mateo, Santa Clara, Santa Cruz, Solano and Sonoma Counties

Table 2. Employment Outlook for Dental Hygienist Occupations in East Bay Sub-Region

Occupation	2017 Jobs	2022 Jobs	5-Yr Change	5-Yr % Change	5-Yr Openings	Average Annual Openings	10% Hourly Wage	Median Hourly Wage
Dental Hygienists	1,736	1,963	227	13%	764	153	\$42.61	\$53.29
Dental Assistants	4,277	4,731	454	11%	2,854	571	\$13.08	\$18.90
TOTAL	6,013	6,694	681	11%	3,618	724	\$21.60	\$28.82

Source: EMSI 2019.1

East Bay Sub-Region includes Alameda and Contra Costa Counties

Job Postings in Bay Region and East Bay Sub-Region

Table 3. Number of Job Postings by Occupation for latest 12 months (March 2018 - Feb 2019)

Occupation	Bay Region	East Bay
Dental Assistants	1,364	527
Dental Hygienists	381	129
Total	1,745	656

Source: Burning Glass

Table 4. Top Job Titles for Dental Hygienist Occupations for latest 12 months (March 2018 - Feb 2019)

Common Title	Bay	East Bay	Common Title	Bay	East Bay
Dental Assistant	1,137	447	Administrative Assistant	5	1
Dental Hygienist	284	94	Office Assistant	5	0
Hygienist	74	29	Orthodontic Rda	5	3
Orthodontic Assistant	73	31	Dental Subspecialist	4	0
Oral Surgery Assistant	35	9	Clinical Assistant	3	3
Dental Receptionist	34	11	Dental	2	0
Rda	26	11	Dental Hygiene Coordinator	2	0
Rdh	17	3	Dental Rda/Rdaef2	2	1
Dental Aide	9	0	Hardworking Rdh	2	0

Source: Burning Glass

Industry Concentration

Table 5. Industries hiring Dental Hygienist Workers in Bay Region

Industry – 6 Digit NAICS (No. American Industry Classification) Codes	Jobs in Industry (2017)	Jobs in Industry (2022)	% Change (2017-22)	% in Industry (2017)
Offices of Dentists (621210)	17,602	17,790	10%	91.5%
HMO Medical Centers (621491)	410	416	27%	2.1%
Colleges, Universities, and Professional Schools (611310)	177	182	12%	0.9%
Offices of Physicians (except Mental Health Specialists) (621111)	145	145	2%	0.7%
Colleges, Universities, and Professional Schools (State Government) (902612)	139	145	12%	0.7%

Source: EMSI 2019.1

Table 6. Top Employers Posting Dental Hygienist Occupations in Bay Region and East Bay Sub-Region (March 2018 - Feb 2019)

Employer	Bay	Employer	Bay	Employer	East Bay
Western Dental Services	196	DMD	12	Western Dental Services	74

Pacific Dental Services Inc	80	University California	12	Pacific Dental Services Inc	59
Interdent	56	Brident Dental & Orthodontics	10	Smile Brands	33
Smile Brands	51	North East Medical Services	9	Interdent	22
Western Dental	44	Smiledirectclub	9	Western Dental	22
Willamette Dental	29	Clearchoice Dental Implant Centers	8	La Clinica De La Raza	15
Western Dental Orthodontics	23	Dental Office	8	Lifelong Medical Care	15
Coast Dental	19	Foothill Community Health Center	7	Willamette Dental	14
Dds	19	Orthoworks	7	Ondonte Dental	12
La Clinica De La Raza	16	Big Smiles	6	DMD	8
Marin Community Clinics	16	Department of Veterans Affairs	6	Coast Dental	7
Lifelong Medical Care	15	Petaluma Health Center	6	Western Dental Orthodontics	7
Ondonte Dental	15	US Army	6	Big Smiles	6

Source: Burning Glass

Educational Supply

There are five community colleges in the Bay Region issuing 101 awards on average annually (last 3 years) on TOP 1240.20 - Dental Hygienist. There are two colleges in the East Bay Sub-Region issuing 37 awards on average annually (last 3 years) on this TOP code.

Table 7. Awards on TOP 1240.20 - Dental Hygienist in the Bay Region

College	Sub-Region	Headcount	Associates	Certificates	Total
Cabrillo	Santa Cruz & Monterey	47	19		19
Chabot Hayward	East Bay	39	17		17
Diablo Valley	East Bay	83	18	2	20
Foothill	Silicon Valley	164	22		22
Santa Rosa	North Bay	48	22	0	23
Total Bay Region		381	98	2	101
Total East Bay Sub-Region		122	35	2	37

Source: IPEDS, Data Mart and Launchboard

NOTE: Headcount of students who took one or more courses is for 2016-17. The annual average for awards is 2014-17 unless there are only awards in 2016-17. The annual average for other postsecondary is for 2013-16.

Gap Analysis

Based on the data included in this report, there is a labor market gap in the Bay region with 2,221 annual openings for the Dental Hygienist occupational cluster and 101 annual (3-year average) awards for an annual undersupply of 2,120 students. In the East Bay Sub-Region, there is also a gap with 724 annual openings and 37 annual (3-year average) awards for an annual undersupply of 687 students.

If only the demand for Dental Hygienists is used (excluding Dental Assistants) and compared to the supply for TOP 1240.20 (Dental Hygienist), there is still a projected annual undersupply of about 421 students in the Bay region and 116 students in the East Bay Sub-Region.

Student Outcomes

Table 8. Four Employment Outcomes Metrics for Students Who Took Courses on TOP 1240.20 - Dental Hygienist

2015-16	Bay (All CTE Programs)	Chabot College (All CTE Programs)	State (1240.20)	Bay (1240.20)	East Bay (1240.20)	Chabot College (1240.20)

Dental Hygienist Occupations in 12 County Bay Region and in East Bay Sub-Region, 2019

% Employed Four Quarters After Exit	74%	74%	87%	90%	95%	74%
Median Quarterly Earnings Two Quarters After Exit	\$10,550	\$9,425	\$8,399	\$10,242	\$9,500	\$9,939
Median % Change in Earnings	46%	71%	48%	47%	50%	69%
% of Students Earning a Living Wage	63%	60%	53%	59%	57%	58%

Source: Launchboard Pipeline (version available on 3/8/19)

Skills, Certifications and Education

Table 9. Top Skills for Dental Hygienist Occupations in Bay Region (March 2018 - Feb 2019)

Skill	Postings	Skill	Postings	Skill	Postings
X-Rays	1,002	Scheduling	166	Coronal Polish	82
Dentistry	685	Dentrix	165	Front Office	82
CPR	604	Patient Preparation	164	Sealants	74
Radiology	467	Customer Service	159	Orthodontic Assistant	73
Dental Hygiene	401	Patient Treatment	158	Teaching	73
Infection Control	284	Appointment Setting	134	X-Ray Equipment	65
Patient Care	279	Oral Surgery	115	Anesthesiology	61
Oral Hygiene	260	Dental Equipment	113	Dental Radiology	61
Orthodontics	216	Dental Instruments	101	Patient Assistance	61
Dental Care	195	Equipment / Instrument Sterilization	101	Treatment Preparation	59
Dental Experience	195	Cleaning	99	Treatment Planning	58
Occupational Health & Safety	191	Dental Histories	99	Vital Signs Measurement	56
Patient/Family Ed and Instruction	190	Dental Assistance	85	Prophylaxis	55
Dental Procedures	179	Surgery	85	Office Management	54

Source: Burning Glass

Table 10. Certifications for Dental Hygienist Occupations in the Bay Region (March 2018 - Feb 2019)

Note: 57% of records have been excluded because they do not include a certification. As a result, the chart below may not be representative of the full sample.

Certification	Postings	Certification	Postings
Dental Hygienist Certification	281	Radiography Certification	10
First Aid CPR AED	271	Basic Cardiac Life Support Certification	9
Certified Infection Control	115	Certified Medical Assistant	6
Certified Dental Assistant	48	Advanced Cardiac Life Support (ACLS)	3
Basic Life Saving (BLS)	33	Licensed Prosthodontist	3
Dental Radiology License	29	Certified Orthodontic Assistant	2
Driver's License	28	CDL Class A	1
Security Clearance	12	Certified A+ Technician	1
Radiation Safety Certification	11	Certified Industrial Hygienist	1
Radiation Safety Certified	11	Community Health Certificate	1
American Heart Association Certification	10	Construction Health and Safety Technician	1

Source: Burning Glass

Table 11. Education Requirements for Dental Hygienist Occupations in Bay Region

Note: 81% of records have been excluded because they do not include a degree level. As a result, the chart below may not be representative of the full sample.

Education (minimum advertised)	Latest 12 Mos. Postings
High school or vocational training	184 (57%)
Associate Degree	90 (28%)
Bachelor's Degree or Higher	51 (16%)

Dental Hygienist Occupations in 12 County Bay Region and in East Bay Sub-Region, 2019

Methodology

Occupations for this report were identified by use of skills listed in O*Net descriptions and job descriptions in Burning Glass. Labor demand data is sourced from Economic Modeling Specialists International (EMSI) occupation data and Burning Glass job postings data. Educational supply and student outcomes data is retrieved from multiple sources, including CTE Launchboard and CCCCO Data Mart.

Sources

O*Net Online
Labor Insight/Jobs (Burning Glass)
Economic Modeling Specialists International (EMSI)
CTE LaunchBoard www.calpassplus.org/Launchboard/
Statewide CTE Outcomes Survey
Employment Development Department Unemployment Insurance Dataset
Living Insight Center for Community Economic Development
Chancellor's Office MIS system

Contacts

For more information, please contact:

- Doreen O'Donovan, Data Research Analyst, for Bay Area Community College Consortium (BACCC) and Centers of Excellence (CoE), doreen@baccc.net or (831) 479-6481
- John Carrese, Director, San Francisco Bay Center of Excellence for Labor Market Research, jcarrese@ccsf.edu or (415) 267-6544