

Program Endorsement Brief: 1223.00 – Health Information Technology

Health Information Technology (AA; Certificate)

Medical Billing and Coding (Certificate)

Los Angeles/Orange County Center of Excellence, December 2021

Summary

Program Endorsement:	Endorsed: All Criteria Met <input checked="" type="checkbox"/>	Endorsed: Some Criteria Met <input type="checkbox"/>	Not Endorsed <input type="checkbox"/>
Program Endorsement Criteria			
Supply Gap:	Yes <input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Living Wage: (Entry-Level, 25th)	Yes <input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Education:	Yes <input checked="" type="checkbox"/>	No	<input type="checkbox"/>
Emerging Occupation(s)			
	Yes <input checked="" type="checkbox"/>	No	<input type="checkbox"/>

The Los Angeles/Orange County Center of Excellence for Labor Market Research (COE) prepared this report to provide Los Angeles/Orange County regional labor market supply and demand data related to three middle-skill occupations:

- *Medical dosimetrists, medical records specialists, and health technologists and technicians, all other (29-2098);*
- *Health information technologists, medical registrars, surgical assistants, and healthcare practitioners and technical workers, all other (29-9098); and*
- *Medical transcriptionists (31-9094).*

Middle-skill occupations typically require some postsecondary education, but less than a bachelor’s degree.¹ This report is intended to help determine whether there is demand in the local labor market that is not being met by the supply from community college programs that align with the relevant occupations.

Based on the available data, there appears to be a supply gap in the region for the three occupations studied in this report. In addition to the majority (80%) of annual openings for the occupations of interest having entry-level wages that exceed the self-sufficiency standard wage in Los Angeles County, all three occupations typically require a postsecondary non-degree award. **Due to all of the criteria being met, the COE endorses this program.** Detailed reasons include:

Demand:

- **Supply Gap Criteria** – Over the next five years, there is projected to be over **1,900 jobs available annually** in the region due to new job growth and replacements, **which is**

¹ The COE classifies middle-skill jobs as the following:

- All occupations that require an educational requirement of some college, associate degree or apprenticeship;
- All occupations that require a bachelor’s degree, but also have more than one-third of their existing labor force with an educational attainment of some college or associate degree; or
- All occupations that require a high school diploma or equivalent or no formal education, but also require short- to long-term on-the-job training where multiple community colleges have existing programs.

more than the 1,052 awards conferred annually by educational institutions in the region.

- NOTE: Two occupations in this report, *medical dosimetrists, medical records specialists, and health technologists and technicians, all other (29-2098)* and *health information technologists, medical registrars, surgical assistants, and healthcare practitioners and technical workers, all other (29-9098)*, include a variety of medical occupations. **Therefore, the demand data in this report is overstated.**
- **Living Wage Criteria** – In Los Angeles County, **the majority (80%) of annual job openings** for the three occupations of interest have **entry-level wages above the self-sufficiency standard hourly wage** (\$18.10/hour).²
- **Educational Criteria** – The Bureau of Labor Statistics (BLS) lists a postsecondary non-degree award as the typical entry-level education for the three occupations in this report.
 - National-level educational attainment data indicates between 20% and 49% of workers in the field have completed some college or an associate degree.

Supply:

- Between 2017 and 2020, **eight community colleges** in the LA/OC region issued awards in programs that have historically trained for the occupations of interest, conferring an average of **158 awards**.
- Between 2016 and 2019, non-community college institutions in the region conferred an average of **894 awards in relevant programs**.

² Self-Sufficiency Standard wage data was pulled from The Self-Sufficiency Standard Tool for California on 12/2/2021. For more information, visit: <http://selfsufficiencystandard.org/california>.

Occupational Demand

Exhibit 1 shows the five-year occupational demand projections for the three occupations studied in this report. In Los Angeles/Orange County, the number of jobs related to these occupations is projected to increase by 8% through 2025. There will be more than 1,900 job openings per year through 2025 due to job growth and replacements.

NOTE: Two occupations in this report, *medical dosimetrists, medical records specialists, and health technologists and technicians, all other (29-2098)* and *health information technologists, medical registrars, surgical assistants, and healthcare practitioners and technical workers, all other (29-9098)*, include a variety of medical occupations. Therefore, the data in Exhibit 1 is overstated.

This report includes employment projection data by Emsi which uses EDD information. Emsi's projections are modeled on recorded (historical) employment figures and incorporate several underlying assumptions, including the assumption that the economy, during the projection period, will be at approximately full employment. To the extent that a recession or labor shock, such as the economic effects of COVID-19, can cause long-term structural change, it may impact the projections. At this time, it is not possible to quantify the full impact of COVID-19 on projections of industry and occupational employment. Therefore, the projections included in this report do not take the full impacts of COVID-19 into account.

Exhibit 1: Occupational demand in Los Angeles and Orange Counties³

Geography	2020 Jobs	2025 Jobs	2020-2025 Change	2020-2025 % Change	Annual Openings
Los Angeles	15,255	16,421	1,166	8%	1,458
Orange	4,987	5,374	387	8%	480
Total	20,242	21,795	1,553	8%	1,938

Wages

The labor market endorsement in this report considers the hourly wages for the three occupations in Los Angeles County, as they relate to the county's self-sufficiency standard wage. Orange County wages are included below in order to provide a complete analysis of the LA/OC region. Detailed wage information, by county, is included in Appendix A.

Los Angeles County — The majority (80%) of annual openings for the three occupations in this report have entry-level wages **above** the self-sufficiency standard wage for one adult (\$18.10 in Los Angeles County). Typical entry-level hourly wages are in a range between \$17.91 and \$19.29. Experienced workers can expect to earn wages between \$26.23 and \$43.26, which are above the self-sufficiency standard wage estimate.

³ Five-year change represents new job additions to the workforce. Annual openings include new jobs and replacement jobs that result from retirements and separations.

Orange County — All three occupations have entry-level wages **below** the self-sufficiency standard wage for one adult (\$20.63 in Orange County). Typical entry-level hourly wages are in a range between \$17.90 and \$18.76. Experienced workers can expect to earn wages between \$27.48 and \$42.33, which are above the self-sufficiency standard wage estimate.

Job Postings

Over the past 12 months, there have been 6,995 online job postings related to the occupations of interest. The highest number of job postings were for medical billers, medical records clerks, medical scribes, medical billing specialists, and dental billers. The top skills were customer billing, medical coding, medical billing, and medical records. The top three employers, by number of job postings, in the region were Anthem Blue Cross, Cedars-Sinai, and MemorialCare Health System.

It is important to note that the job postings data included in this section reflects online job postings listed in the past 12 months and does not yet demonstrate the full impact of COVID-19. While employers have generally posted fewer online job postings since the beginning of the pandemic, the long-term effects are currently unknown.

Educational Attainment

The Bureau of Labor Statistics (BLS) lists a postsecondary non-degree award as the typical entry-level education for all three occupations in this report. National-level educational attainment data indicates between 20% and 49% of workers in the field have completed some college or an associate degree. Of the 63% of job postings listing a minimum education requirement in Los Angeles/Orange County, 66% (2,923) requested high school or vocational training, 7% (302) requested an associate degree, and 27% (1,210) requested a bachelor’s degree.

Educational Supply

Community College Supply — Exhibit 2 shows the annual and three-year average number of awards conferred by community colleges in Medical Office Technology (TOP 0514.20); Health Information Technology (1223.00); and Health Information Coding (1223.10). The community colleges with the most completions in the region are East LA with 79 awards conferred, followed by Cypress and Santa Monica, with 19 awards each.

Exhibit 2: Regional community college awards (certificates and degrees), 2017-2020

TOP Code	Program	College	2017-18 Awards	2018-19 Awards	2019-20 Awards	3-Year Average
0514.20	Medical Office Technology	East LA	-	-	1	0
		Glendale	10	11	21	14
		LA City	-	3	-	1
		LA Harbor	1	1	2	1
		LA Trade-Tech	16	1	3	7
		Santa Monica	14	14	28	19
		LA Subtotal	41	30	55	42
Supply Subtotal/Average			41	30	55	42

TOP Code	Program	College	2017-18 Awards	2018-19 Awards	2019-20 Awards	3-Year Average
1223.00	Health Information Technology	East LA	23	62	46	44
		LA Subtotal	23	62	46	44
		Cypress	20	19	18	19
		Saddleback	13	15	16	15
		OC Subtotal	33	34	34	34
Supply Subtotal/Average			56	96	80	77
1223.10	Health Information Coding	East LA	23	54	28	35
		Glendale	3	4	-	2
		LA Subtotal	26	58	28	37
		Saddleback	-	1	2	1
		OC Subtotal	-	1	2	1
Supply Subtotal/Average			26	59	30	38
Supply Total/Average			123	185	165	158

Non-Community College Supply — For a comprehensive regional supply analysis, it is important to consider the supply from other institutions in the region that may provide training programs for the occupations of interest. Exhibit 3 shows the annual and three-year average number of awards conferred by institutions in programs that have been crosswalked to the TOP in Exhibit 2. Due to different data collection periods, the most recent three-year period of available data is from 2016 to 2019. Between 2016 and 2019, non-community college institutions in the region conferred an average of 894 awards.

Exhibit 3: Regional non-community college awards, 2016-2019

CIP Code	Program	Institution	2016-17 Awards	2017-18 Awards	2018-19 Awards	3-Year Average
51.0706	Health Information/ Medical Records Administration/ Administrator	Eagle Rock College	-	3	1	1
		Fremont College	-	9	5	5
51.0707	Health Information/ Medical Records Technology/ Technician	American Career College-Anaheim	10	11	-	7
		DeVry University-CA	33	7	1	14
		National Career College	22	9	11	14
		Palladium Technical Academy	-	3	-	1
		Virginia Sewing Machines and School Center	33	28	-	20
		Westchester College of Nursing & Allied Health	16	14	4	11
51.0713	Medical Insurance Coding Specialist/Coder	American Career College-Anaheim	110	80	76	89
		American Career College-Los Angeles	109	69	86	88
		California Healing Arts College	12	5	2	6
		Fremont College	9	11	6	9
		InterCoast Colleges-Santa Ana	1	-	5	2
		PCI College	1	4	3	3
		Pomona Unified School District Adult and Career Education	19	-	-	6
		Southern California Health Institute	56	54	65	58
		Trident University International	-	-	3	1
		UEI College-Gardena	53	37	59	50

CIP Code	Program	Institution	2016-17 Awards	2017-18 Awards	2018-19 Awards	3-Year Average
51.0714		United Education Institute-Anaheim	53	41	52	49
		United Education Institute-Encino	56	44	43	48
		United Education Institute-West Covina	29	51	48	43
	Medical Insurance Specialist/ Medical Biller	ABC Adult School	-	10	16	9
		Advanced College	-	5	-	2
		American College of Healthcare and Technology	18	17	14	16
		Carrington College-Pomona	11	-	-	4
		Diversified Vocational College	-	33	60	31
		Downey Adult School	78	98	51	76
		Eagle Rock College	40	53	36	43
		Glendale Career College	4	8	6	6
		Hacienda La Puente Adult Education	74	35	36	48
		Healthcare Career College	7	-	-	2
		North-West College-Anaheim	33	19	13	22
		North-West College-Glendale	4	11	8	8
		North-West College-Long Beach	3	19	11	11
		North-West College-Pomona	12	7	7	9
		North-West College-Van Nuys	10	5	11	9
		North-West College-West Covina	73	45	52	57
		Palladium Technical Academy	8	5	3	5
PCI College	-	-	3	1		
Pomona Unified School District Adult and Career Education	-	4	10	5		
Valley College of Medical Careers	15	2	8	8		
Supply Total/Average			1,012	856	815	894

Appendix A: Occupational demand and wage data by county

Exhibit 4. Los Angeles County

Occupation (SOC)	2020 Jobs	2025 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings (25 th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75 th Percentile)
Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other (29-2098)	10,690	11,868	1,178	11%	1,023	\$18.54	\$23.67	\$30.88
Health Information Technologists, Medical Registrars, Surgical Assistants, and Healthcare Practitioners and Technical Workers, All Other (29-9098)	2,040	2,204	164	8%	139	\$19.29	\$26.65	\$43.26
Medical Transcriptionists (31-9094)	2,525	2,349	(176)	(7%)	296	\$17.91	\$19.94	\$26.23
Total	15,255	16,421	1,166	8%	1,458	-	-	-

Exhibit 5. Orange County

Occupation (SOC)	2020 Jobs	2025 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Entry-Level Hourly Earnings (25th Percentile)	Median Hourly Earnings	Experienced Hourly Earnings (75th Percentile)
Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other (29-2098)	3,276	3,619	343	10%	309	\$17.90	\$22.86	\$29.86
Health Information Technologists, Medical Registrars, Surgical Assistants, and Healthcare Practitioners and Technical Workers, All Other (29-9098)	680	738	58	9%	47	\$18.76	\$26.01	\$42.33
Medical Transcriptionists (31-9094)	1,031	1,017	(14)	(1%)	124	\$18.76	\$20.87	\$27.48
Total	4,987	5,374	387	8%	480	-	-	-

Exhibit 6. Los Angeles and Orange Counties

Occupation (SOC)	2020 Jobs	2025 Jobs	5-Yr Change	5-Yr % Change	Annual Openings	Typical Entry-Level Education
Medical Dosimetrists, Medical Records Specialists, and Health Technologists and Technicians, All Other (29-2098)	13,966	15,487	1,521	11%	1,332	Postsecondary non-degree award
Health Information Technologists, Medical Registrars, Surgical Assistants, and Healthcare Practitioners and Technical Workers, All Other (29-9098)	2,720	2,942	222	8%	186	Postsecondary non-degree award
Medical Transcriptionists (31-9094)	3,557	3,366	(191)	(5%)	420	Postsecondary non-degree award
Total	20,242	21,795	1,553	8%	1,938	-

Appendix B: Sources

- O*NET Online
- Labor Insight/Jobs (Burning Glass)
- Economic Modeling Specialists, International (Emsi)
- Bureau of Labor Statistics (BLS)
- California Employment Development Department, Labor Market Information Division, OES
- California Community Colleges Chancellor's Office Management Information Systems (MIS)
- California Family Needs Calculator, Insight Center for Community Economic Development
- Chancellor's Office Curriculum Inventory (COCI 2.0)

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