

DECEMBER 2016



*Data
Supplement*



LOS ANGELES:

PEOPLE, INDUSTRY AND JOBS

INSTITUTE FOR APPLIED ECONOMICS
Los Angeles County Economic Development Corporation



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Data Supplement



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This report was commissioned by the City of Los Angeles Workforce Development Board.

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Every reasonable effort has been made to ensure that the data contained herein reflect the most accurate and timely information possible and they are believed to be reliable. This report is provided solely for informational purposes and is not to be construed as providing advice, recommendations, endorsements, representations or warranties of any kind whatsoever.

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1 LABOR FORCE ANALYSIS FOR SELECT GROUPS

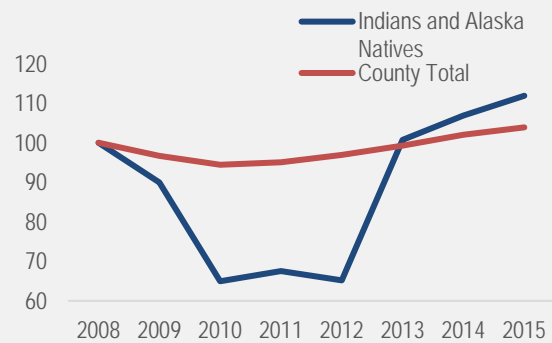
1.1 Indians and Alaska Natives

Exhibit 1-1
Select Education and Workforce Statistics for Indians and Alaska Natives in L.A. County.

Population	55,283
Share of County Population	0.5%
Population by Educational Attainment (25 and over)	
No High School Degree	36.3%
High School Degree	43.6
Associate's Degree	5.2
Bachelor's Degree	9.8
Master's Degree	5.0
Labor Force Statistics	
Labor Force	35,410
Labor Force Participation Rate	64.1%
Employment	32,189
Unemployment	3,221
Unemployment Rate	9.1%

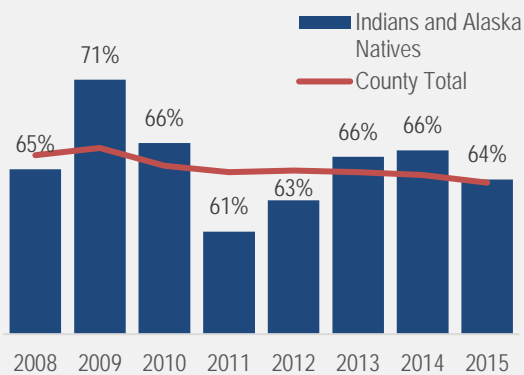
Sources: California Employment Development Department; LAEDC

Exhibit 1-3
Employment Growth Since 2008 in L.A. County



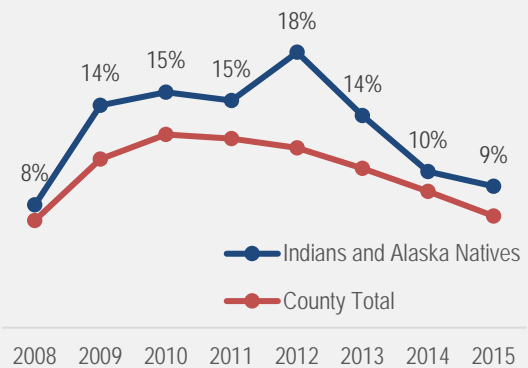
Sources: U.S. Census, American Community Survey, LAEDC

Exhibit 1-2
Labor Force Participation in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

Exhibit 1-4
Unemployment Rates in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

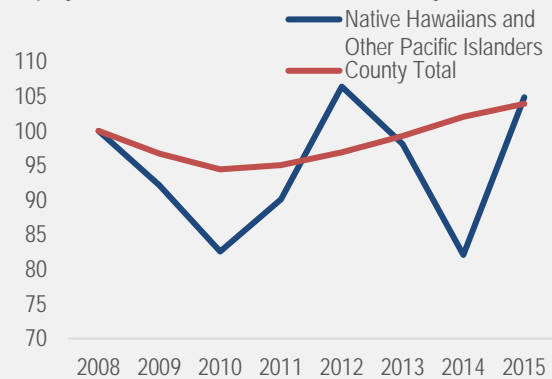
1.2 Native Hawaiians and Other Pacific Islanders

Exhibit 1-5
Select Education and Workforce Statistics for Native Hawaiians and Other Pacific Islanders in L.A. County.

Population	21,869
Share of County Population	0.2%
Population by Educational Attainment (25 and over)	
No High School Degree	10.7%
High School Degree	64.9
Associate's Degree	6.2
Bachelor's Degree	12.8
Master's Degree	5.4
Labor Force Statistics	
Labor Force	13,742
Labor Force Participation Rate	62.8%
Employment	12,437
Unemployment	1,305
Unemployment Rate	9.5%

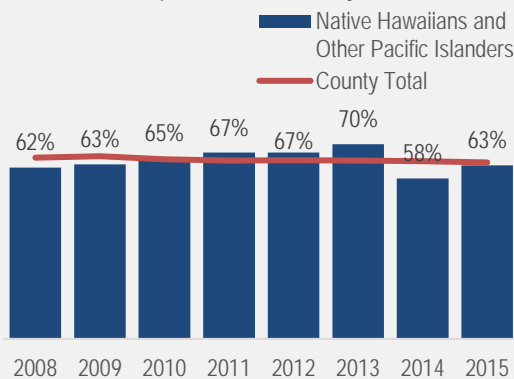
Sources: California Employment Development Department; LAEDC

Exhibit 1-7
Employment Growth Since 2008 in L.A. County



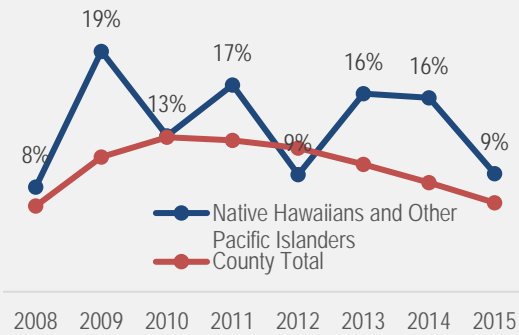
Sources: U.S. Census, American Community Survey, LAEDC

Exhibit 1-6
Labor Force Participation in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

Exhibit 1-8
Unemployment Rates in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

1.3 Individuals with Disabilities and Youths with Disabilities

Exhibit 1-9
Select Education and Workforce Statistics for Individuals with Disabilities in L.A. County.

Population	483,754
Share of County Population	4.8%
Population by Educational Attainment (25 and over)	
No High School Degree	32.7%
High School Degree	43.8
Associate's Degree	5.9
Bachelor's Degree	11.2
Master's Degree	6.4
Labor Force Statistics	
Labor Force	192,709
Labor Force Participation Rate	39.8%
Employment	164,405
Unemployment	28,304
Unemployment Rate	14.7%

Sources: California Employment Development Department; LAEDC

Exhibit 1-12
Unemployment Rates in L.A. County

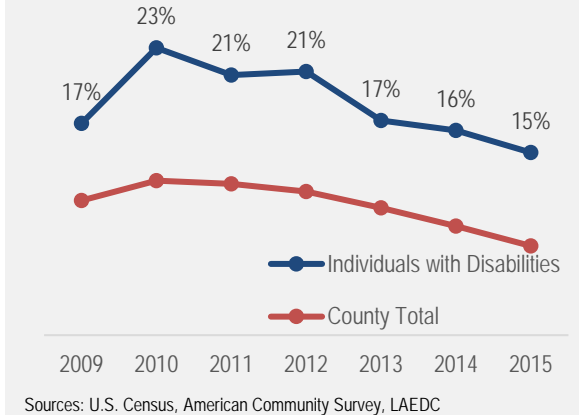


Exhibit 1-10
Labor Force Participation in L.A. County

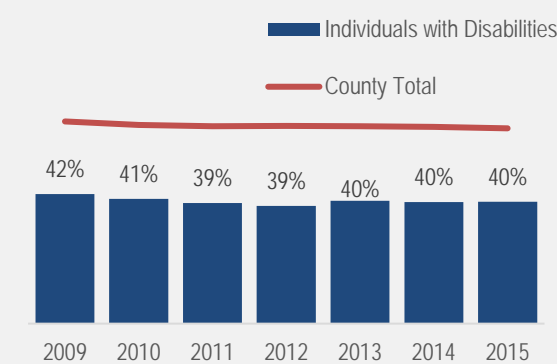


Exhibit 1-13
Select Education Statistics for Youths (Under 18) with Disabilities in L.A. County.

	With Disability	Total
Population	61,459	
Share of County Youth Population	2.7	
School Enrollment by Grade Level (3 to 17 Years of Age)		
Pre-K through 3 rd Grade	27.3%	36.4%
4 th Grade through 6 th Grade	22.2	20.7
7 th or 8 th Grade	13.6	13.9
High School	36.9	28.9

Sources: California Employment Development Department; LAEDC

Exhibit 1-11
Employment Growth Since 2009 in L.A. County

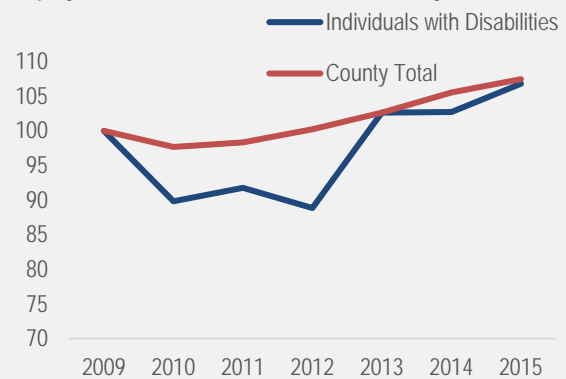
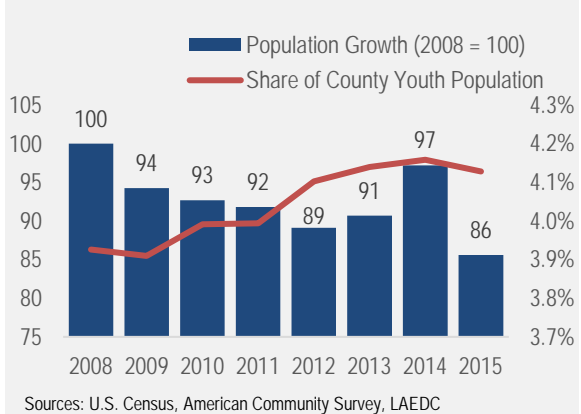


Exhibit 1-14
Youth with Disability Population in L.A. County



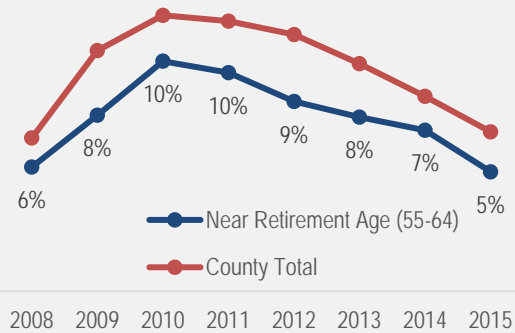
1.4 Older Individuals

Exhibit 1-15
Select Education and Workforce Statistics for Individuals Near Retirement Age (55 to 64) in L.A. County.

Population	1,175,678
Share of County Population	11.6%
Population by Educational Attainment (25 and over)	
No High School Degree	23.8%
High School Degree	39.6
Associate's Degree	7.5
Bachelor's Degree	17.9
Master's Degree	11.5
Labor Force Statistics	
Labor Force	760,79
Labor Force Participation Rate	64.7%
Employment	719,850
Unemployment	40,929
Unemployment Rate	5.4%

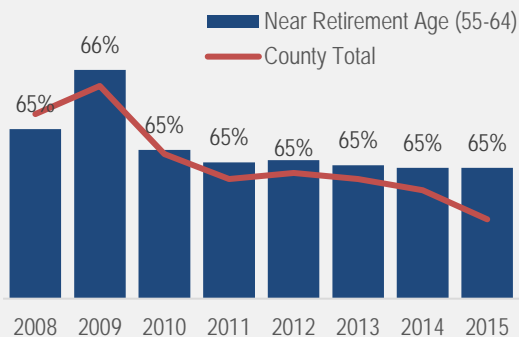
Sources: California Employment Development Department; LAEDC

Exhibit 1-18
Unemployment Rates in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

Exhibit 1-16
Labor Force Participation in L.A. County



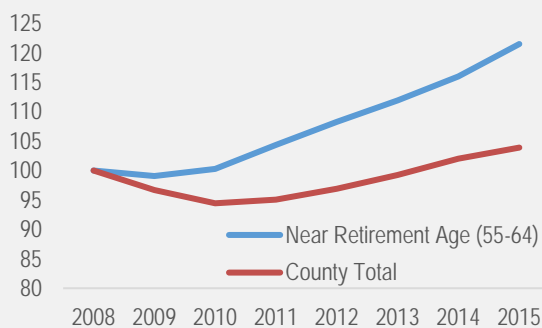
Sources: U.S. Census, American Community Survey, LAEDC

Exhibit 1-19
Select Education and Workforce Statistics for Individuals At Retirement Age (65 and Over) in L.A. County.

Population	1,277,334
Share of County Population	12.6%
Population by Educational Attainment (25 and over)	
No High School Degree	27.7%
High School Degree	39.0
Associate's Degree	6.0
Bachelor's Degree	15.3
Master's Degree	12.0
Labor Force Statistics	
Labor Force	233,035
Labor Force Participation Rate	18.2%
Employment	226,843
Unemployment	6,192
Unemployment Rate	2.7%

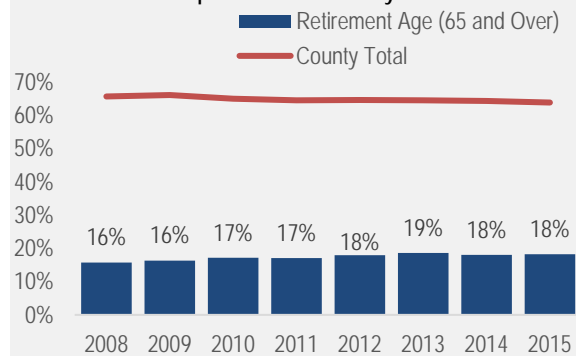
Sources: California Employment Development Department; LAEDC

Exhibit 1-17
Employment Growth Since 2008 in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

Exhibit 1-20
Labor Force Participation in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

Exhibit 1-21
Employment Growth Since 2008 in L.A. County

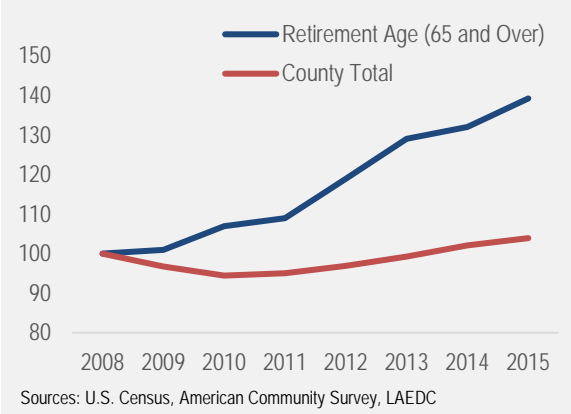
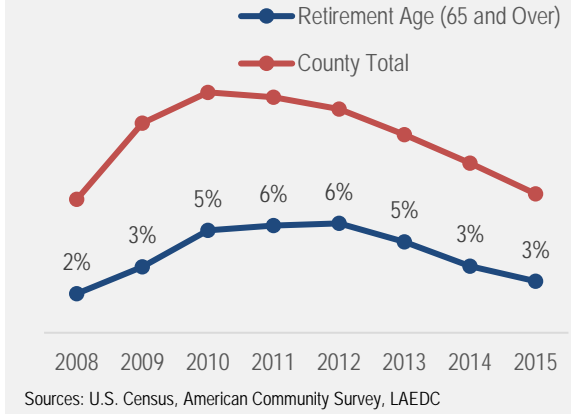


Exhibit 1-22
Unemployment Rates in L.A. County



1.5 Individuals with Limited English Proficiency

Exhibit 1-23

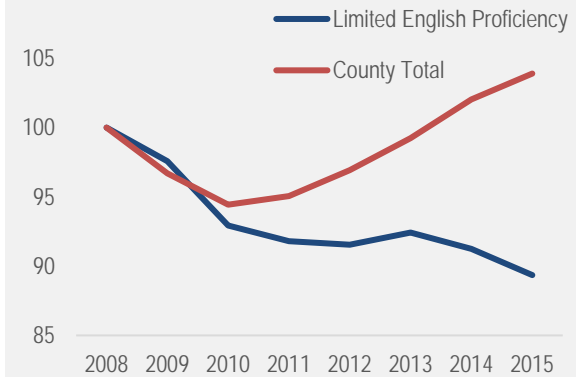
Select Education and Workforce Statistics for Individuals with Limited English Proficiency in L.A. County.

Population	2,342,038
Share of County Population	24.6%
Population by Educational Attainment (25 and over)	
No High School Degree	50.3%
High School Degree	32.6
Associate's Degree	4.0
Bachelor's Degree	9.5
Master's Degree	3.6
Labor Force Statistics	
Labor Force	1,277,179
Labor Force Participation Rate	54.5%
Employment	1,194,803
Unemployment	82,306
Unemployment Rate	6.4%

Sources: California Employment Development Department; LAEDC

Exhibit 1-25

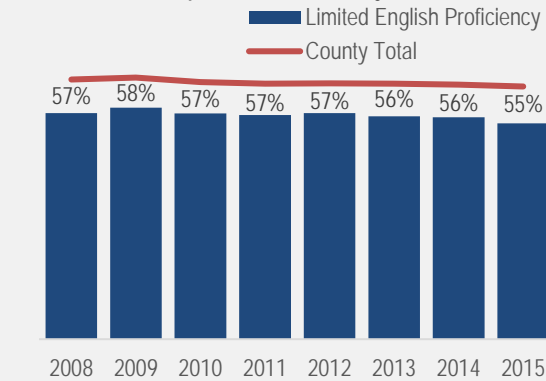
Employment Growth Since 2008 in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

Exhibit 1-24

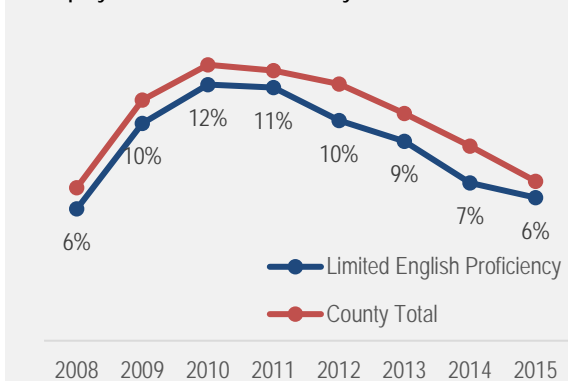
Labor Force Participation in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

Exhibit 1-26

Unemployment Rates in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

1.5 Single Parents

Exhibit 1-27

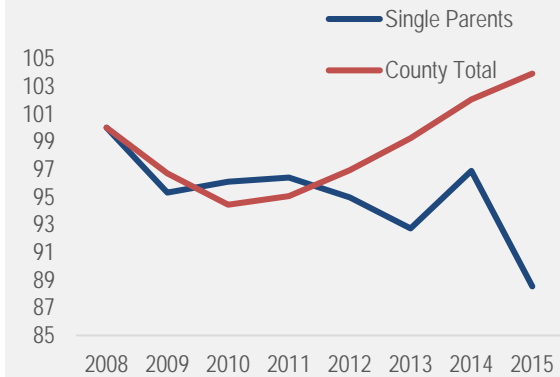
Select Education and Workforce Statistics for Single Parents in L.A. County.

Population	309,468
Share of County Population	3.0%
Population by Educational Attainment (25 and over)	
No High School Degree	29.1%
High School Degree	46.4
Associate's Degree	6.9
Bachelor's Degree	11.9
Master's Degree	5.5
Labor Force Statistics	
Labor Force	252,920
Labor Force Participation Rate	18.3%
Employment	236,358
Unemployment	16,403
Unemployment Rate	6.5%

Sources: California Employment Development Department; LAEDC

Exhibit 1-29

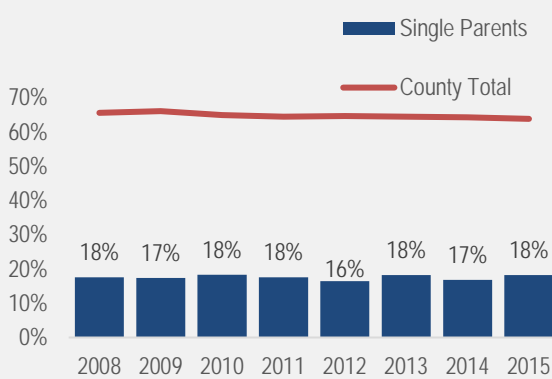
Employment Growth Since 2008 in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

Exhibit 1-28

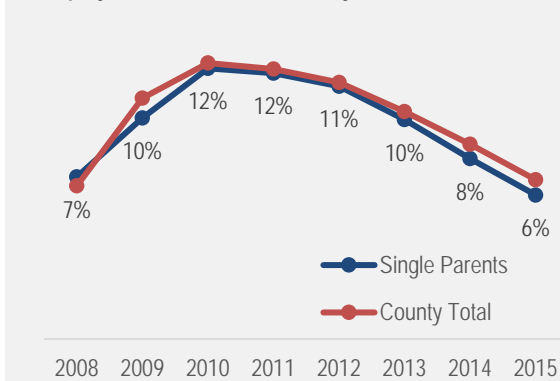
Labor Force Participation in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

Exhibit 1-30

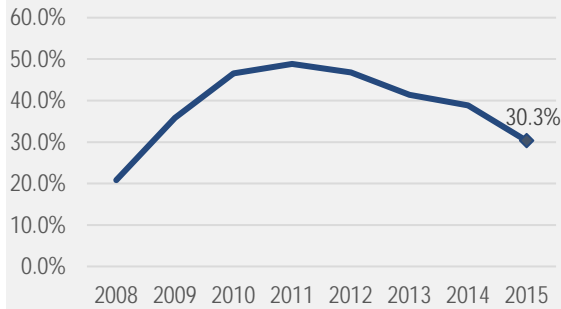
Unemployment Rates in L.A. County



Sources: U.S. Census, American Community Survey, LAEDC

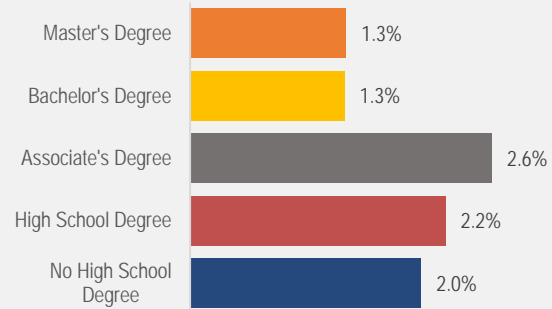
1.6 Long Term Unemployed Labor Force

Exhibit 1-31
Share of Long-Term Unemployed Labor Force (27+ weeks) in L.A. County



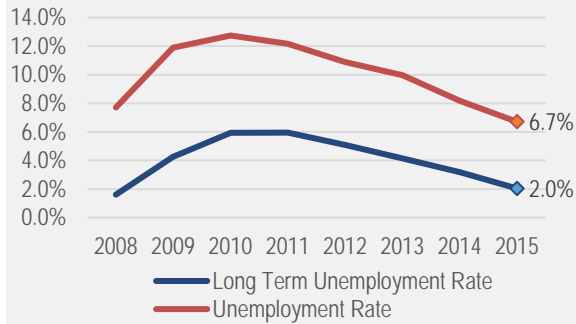
Source: Current Population Survey Public Use Tapes, Estimated by LAEDC

Exhibit 1-34
Long Term Unemployment Rate in L.A. County by Highest Level of Education in 2015



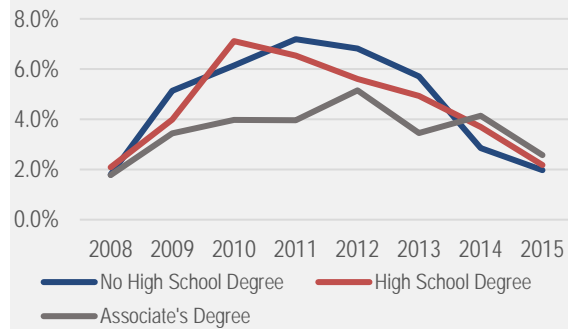
Source: Current Population Survey Public Use Tapes, Estimated by LAEDC

Exhibit 1-32
Unemployment and Long-Term Unemployment Rates in L.A. County



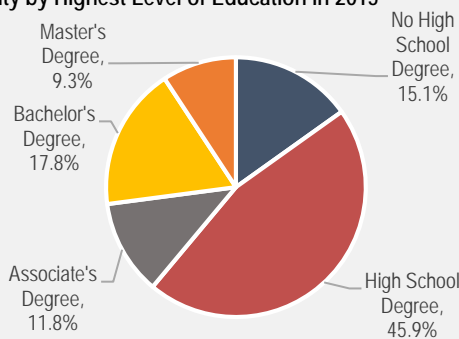
Source: Current Population Survey Public Use Tapes, Estimated by LAEDC

Exhibit 1-35
Long-Term Unemployment Rates in L.A. County for Select Education Levels



Source: Current Population Survey Public Use Tapes, Estimated by LAEDC

Exhibit 1-33
Long Term Unemployed Labor Force in L.A. County by Highest Level of Education in 2015



Source: Current Population Survey Public Use Tapes, Estimated by LAEDC

2 OCCUPATIONAL ANALYSIS

2.1 Manufacturing

Exhibit 2-1
Top Occupations in L.A. County's Manufacturing Industry

	SOC Code	Occupation	% of Industry	Hourly Average Wage	Annual Average Wage	Hourly Median Wage	Annual Median Wage	Entry Level Education	Work Experience	On-the-Job Training
1	51-2092	Team Assemblers	4.56%	13.07	27,180	11.54	24,010	7	None	MT OJT
2	51-1011	First-Line Supervisors of Production and Operating Workers	2.81%	27.99	58,230	25.36	52,740	7	<5 years	None
3	51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	2.63%	19.16	39,860	17.06	35,490	7	None	MT OJT
4	11-1021	General and Operations Managers	2.47%	62.25	129,480	50.74	105,530	3	≥5 years	None
5	51-9111	Packaging and Filling Machine Operators and Tenders	2.14%	13.55	28,180	11.55	24,020	7	None	MT OJT
6	51-4041	Machinists	2.12%	18.34	38,150	16.62	34,570	7	None	LT OJT
7	15-1133	Software Developers, Systems Software	1.89%	55.75	115,960	56.20	116,900	3	None	None
8	51-2022	Electrical and Electronic Equipment Assemblers	1.83%	16.17	33,640	14.81	30,810	7	None	MT OJT
9	43-5071	Shipping, Receiving, and Traffic Clerks	1.77%	14.82	30,830	13.73	28,570	7	None	ST OJT
10	41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	1.62%	29.08	60,500	23.06	47,970	7	None	MT OJT
11	17-2112	Industrial Engineers	1.40%	49.51	102,970	47.45	98,700	3	None	None
12	11-3051	Industrial Production Managers	1.28%	51.45	107,020	45.05	93,710	3	≥5 years	None
13	51-4121	Welders, Cutters, Solderers, and Brazers	1.28%	19.28	40,090	17.47	36,340	7	None	MT OJT
14	43-4051	Customer Service Representatives	1.22%	18.48	38,430	17.07	35,510	7	None	ST OJT
15	43-9061	Office Clerks, General	1.18%	15.88	33,030	14.83	30,840	7	None	ST OJT
16	49-9071	Maintenance and Repair Workers, General	1.08%	21.34	44,400	19.82	41,230	7	None	LT OJT
17	15-1132	Software Developers, Applications	1.07%	53.07	110,380	52.66	109,540	3	None	None
18	43-5061	Production, Planning, and Expediting Clerks	1.03%	22.82	47,470	21.35	44,410	7	None	MT OJT
19	13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	1.02%	33.98	70,680	32.51	67,630	3	None	LT OJT
20	17-2141	Mechanical Engineers	1.00%	47.82	99,470	45.83	95,330	3	None	None
21	11-9041	Architectural and Engineering Managers	0.98%	77.33	160,840	71.98	149,710	3	≥5 years	None
22	17-2072	Electronics Engineers, Except Computer	0.97%	57.93	120,500	56.82	118,190	3	None	None
23	43-3031	Bookkeeping, Accounting, and Auditing Clerks	0.96%	21.13	43,940	20.10	41,800	6	None	MT OJT
24	51-5112	Printing Press Operators	0.94%	17.14	35,650	15.19	31,600	7	None	MT OJT
25	49-9041	Industrial Machinery Mechanics	0.93%	29.55	61,470	28.79	59,870	7	None	LT OJT
26	17-2061	Computer Hardware Engineers	0.91%	53.68	111,650	52.58	109,370	3	None	None
27	13-2011	Accountants and Auditors	0.90%	37.94	78,910	34.66	72,090	3	None	None
28	51-3092	Food Batchmakers	0.89%	12.39	25,780	10.66	22,160	7	None	MT OJT
29	51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	0.86%	13.93	28,970	13.01	27,070	7	None	MT OJT
30	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	0.84%	14.06	29,240	13.21	27,480	7	None	MT OJT
31	17-3023	Electrical and Electronics Engineering Technicians	0.80%	30.86	64,180	30.02	62,450	4	None	None

32	51-2099	Assemblers and Fabricators, All Other	0.80%	15.25	31,720	13.29	27,650	7	None	MT OJT
33	51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	0.79%	18.19	37,830	16.81	34,970	7	None	MT OJT
34	53-3032	Heavy and Tractor-Trailer Truck Drivers	0.79%	20.54	42,730	19.21	39,960	5	None	ST OJT
35	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	0.73%	19.31	40,160	18.38	38,240	7	None	ST OJT
36	13-1199	Business Operations Specialists, All Other	0.70%	36.53	75,990	34.27	71,290	3	None	None
37	17-2071	Electrical Engineers	0.69%	50.86	105,780	48.95	101,820	3	None	None
38	13-1161	Market Research Analysts and Marketing Specialists	0.67%	35	72,790	30.75	63,970	3	None	None
39	51-7011	Cabinetmakers and Bench Carpenters	0.64%	17.76	36,940	16.23	33,760	7	None	MT OJT
40	51-4072	Molding, Coremaking, and Casting Machine Setters, Operators, and Tenders, Metal and Plastic	0.63%	12.66	26,340	11.22	23,330	7	None	MT OJT
41	41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	0.62%	41.19	85,670	34.82	72,430	3	None	MT OJT
42	51-4033	Grinding, Lapping, Polishing, and Buffing Machine Tool Setters, Operators, and Tenders, Metal and Plastic	0.62%	15.32	31,870	14.04	29,210	7	None	MT OJT
43	11-3021	Computer and Information Systems Managers	0.59%	73.47	152,820	68.87	143,250	3	≥5 years	None
44	11-2022	Sales Managers	0.54%	61.25	127,410	52.86	109,960	3	<5 years	None
45	43-1011	First-Line Supervisors of Office and Administrative Support Workers	0.54%	28.68	59,650	27.17	56,510	7	<5 years	None
46	51-9199	Production Workers, All Other	0.51%	13.52	28,120	10.06	20,930	7	None	MT OJT
47	17-2011	Aerospace Engineers	0.51%	61.36	127,630	61.29	127,490	3	None	None
48	51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	0.51%	14.94	31,070	13.63	28,350	7	None	MT OJT
49	51-9012	Separating, Filtering, Clarifying, Precipitating, and Still Machine Setters, Operators, and Tenders	0.50%	19.19	39,920	17.96	37,350	7	None	MT OJT
50	11-3031	Financial Managers	0.50%	72.17	150,110	65.08	135,370	3	≥5 years	None

Education: 1=Doctoral or professional degree; 2=Master's degree; 3=Bachelor's degree; 4=Associate's degree; 5=Postsecondary non-degree award; 6=Some college, no degree; 7=High school diploma or equivalent; 8=Less than high school; **On-the-Job Training:** I/R=Internship/Residency; APP=Apprenticeship; LT OJT=Long-term on-the-job training (more than one year); MT OJT=Moderate-term on-the-job training (1-12 months); ST OJT=Short-term on-the-job training (1 month or less)

Sources: Estimates by LAEDC; Education and skills requirements from BLS

2.2 Construction

Exhibit 2-2

Top Occupations in L.A. County's Construction Industry

	SOC Code	Occupation	% of Industry	Hourly Average Wage	Annual Average Wage	Hourly Median Wage	Annual Median Wage	Entry Level Education	Work Experience	On-the-Job Training
1	47-2031	Carpenters	10.28%	25.74	53,530	23.80	49,510	7	None	APP
2	47-2111	Electricians	6.38%	29.84	62,080	30.07	62,540	7	None	APP
3	47-1011	First-Line Supervisors of Construction Trades and Extraction Workers	5.05%	36.93	76,820	35.84	74,550	7	≥5 years	None
4	47-2152	Plumbers, Pipefitters, and Steamfitters	4.60%	26.53	55,180	24.74	51,460	7	None	APP
5	11-9021	Construction Managers	3.48%	45.2	94,020	41.05	85,380	3	None	MT OJT
6	11-1021	General and Operations Managers	2.60%	62.25	129,480	50.74	105,530	3	≥5 years	None
7	43-9061	Office Clerks, General	2.50%	15.88	33,030	14.83	30,840	7	None	ST OJT
8	47-2073	Operating Engineers and Other Construction Equipment Operators	2.48%	35.73	74,330	37.42	77,840	7	None	MT OJT
9	13-1051	Cost Estimators	2.31%	31.81	66,160	29.08	60,480	3	None	None
10	49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2.30%	25.76	53,580	25.09	52,180	5	None	LT OJT
11	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1.91%	19.31	40,160	18.38	38,240	7	None	ST OJT
12	43-3031	Bookkeeping, Accounting, and Auditing Clerks	1.82%	21.13	43,940	20.10	41,800	6	None	MT OJT
13	41-3099	Sales Representatives, Services, All Other	1.75%	29.74	61,870	25.46	52,950	7	None	MT OJT
14	47-2211	Sheet Metal Workers	1.21%	29.16	60,660	28.34	58,940	7	None	APP
15	47-2221	Structural Iron and Steel Workers	0.78%	31.29	65,090	33.40	69,480	7	None	APP
16	43-1011	First-Line Supervisors of Office and Administrative Support Workers	0.75%	28.68	59,650	27.17	56,510	7	<5 years	None
17	51-4121	Welders, Cutters, Solderers, and Brazers	0.72%	19.28	40,090	17.47	36,340	7	None	MT OJT
18	47-2121	Glaziers	0.71%	30.21	62,830	28.34	58,950	7	None	APP
19	49-9052	Telecommunications Line Installers and Repairers	0.64%	28.95	60,210	32.22	67,020	7	None	LT OJT
20	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	0.64%	26.93	56,020	26.83	55,810	5	None	MT OJT
21	53-3032	Heavy and Tractor-Trailer Truck Drivers	0.62%	20.54	42,730	19.21	39,960	5	None	ST OJT
22	47-2021	Brickmasons and Blockmasons	0.61%	28.64	59,580	28.61	59,510	7	None	APP
23	47-3013	Helpers--Electricians	0.60%	18.77	39,040	15.80	32,870	7	None	ST OJT
24	13-2011	Accountants and Auditors	0.58%	37.94	78,910	34.66	72,090	3	None	None
25	47-2171	Reinforcing Iron and Rebar Workers	0.55%	26.78	55,690	26.50	55,120	7	None	APP
26	17-2051	Civil Engineers	0.52%	48.45	100,780	48.87	101,640	3	None	None
27	43-4171	Receptionists and Information Clerks	0.50%	14.57	30,300	13.64	28,380	7	None	ST OJT
28	49-9099	Installation, Maintenance, and Repair Workers, All Other	0.44%	17.69	36,800	16.98	35,320	7	None	MT OJT
29	49-9071	Maintenance and Repair Workers, General	0.43%	21.34	44,400	19.82	41,230	7	None	LT OJT
30	43-6011	Executive Secretaries and Executive Administrative Assistants	0.43%	29.15	60,630	28.47	59,230	7	<5 years	None
31	47-3015	Helpers--Pipefitters, Plumbers, Pipefitters, and Steamfitters	0.42%	15.29	31,810	14.59	30,340	7	None	ST OJT

32	43-5032	Dispatchers, Except Police, Fire, and Ambulance	0.42%	19.01	39,540	17.04	35,430	7	None	MT OJT
33	43-3051	Payroll and Timekeeping Clerks	0.41%	21.88	45,510	21.70	45,140	7	None	MT OJT
34	49-2098	Security and Fire Alarm Systems Installers	0.40%	22.38	46,550	22.65	47,110	7	None	MT OJT
35	13-1199	Business Operations Specialists, All Other	0.39%	36.53	75,990	34.27	71,290	3	None	None
36	49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	0.36%	36.01	74,910	34.95	72,710	7	<5 years	None
37	11-3031	Financial Managers	0.32%	72.17	150,110	65.08	135,370	3	≥5 years	None
38	13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	0.31%	33.98	70,680	32.51	67,630	3	None	LT OJT
39	49-9051	Electrical Power-Line Installers and Repairers	0.28%	46.79	97,330	49.85	103,690	7	None	LT OJT
40	49-9098	Helpers--Installation, Maintenance, and Repair Workers	0.26%	14.83	30,850	13.85	28,810	7	None	ST OJT
41	17-3011	Architectural and Civil Drafters	0.25%	28.34	58,940	27.67	57,540	4	None	None
42	47-4021	Elevator Installers and Repairers	0.23%	37.82	78,660	41.97	87,290	7	None	APP
43	53-3033	Light Truck or Delivery Services Drivers	0.22%	17.16	35,690	14.21	29,550	7	None	ST OJT
44	43-5061	Production, Planning, and Expediting Clerks	0.22%	22.82	47,470	21.35	44,410	7	None	MT OJT
45	47-4099	Construction and Related Workers, All Other	0.22%	22.38	46,560	21.49	44,690	7	None	MT OJT
46	47-2022	Stonemasons	0.21%	15.55	32,340	12.74	26,510	7	None	APP
47	37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	0.19%	13.89	28,890	12.77	26,560	8	None	ST OJT
48	37-3011	Landscaping and Groundskeeping Workers	0.19%	14.45	30,050	12.34	25,680	8	None	ST OJT
49	11-1011	Chief Executives	0.19%	104.04	216,400	#	#	3	≥5 years	None
50	49-3042	Mobile Heavy Equipment Mechanics, Except Engines	0.18%	30.71	63,890	29.09	60,520	7	None	LT OJT

Education: 1=Doctoral or professional degree; 2=Master's degree; 3=Bachelor's degree; 4=Associate's degree; 5=Postsecondary non-degree award; 6=Some college, no degree; 7=High school diploma or equivalent; 8=Less than high school; **On-the-Job Training:** I/R=Internship/Residency; APP=Apprenticeship; LT OJT=Long-term on-the-job training (more than one year); MT OJT=Moderate-term on-the-job training (1-12 months); ST OJT=Short-term on-the-job training (1 month or less)

Sources: Estimates by LAEDC; Education and skills requirements from BLS

2.3 Health Care

Exhibit 2-3

Top Occupations in L.A. County's Health Care Industry

	SOC Code	Occupation	% of Industry	Hourly Average Wage	Annual Average Wage	Hourly Median Wage	Annual Median Wage	Entry Level Education	Work Experience	On-the-Job Training
1	29-1141	Registered Nurses	12.9%	46.61	96,960	47.30	98,380	3	None	None
2	39-9021	Personal Care Aides	15.1%	11.35	23,610	9.99	20,790	8	None	ST OJT
3	31-1014	Nursing Assistants	15.0%	14.67	30,500	13.88	28,870	5	None	None
4	31-9092	Medical Assistants	15.9%	16.39	34,100	15.71	32,680	5	None	None
5	43-6013	Medical Secretaries	15.1%	17.94	37,310	17.24	35,870	7	None	MT OJT
6	29-2061	Licensed Practical and Licensed Vocational Nurses	18.1%	23.86	49,630	23.73	49,360	5	None	None
7	31-9091	Dental Assistants	16.8%	18.31	38,080	17.47	36,340	5	None	None
8	43-4171	Receptionists and Information Clerks	13.6%	14.57	30,300	13.64	28,380	7	None	ST OJT
9	43-9061	Office Clerks, General	11.5%	15.88	33,030	14.83	30,840	7	None	ST OJT
10	25-2011	Preschool Teachers, Except Special Education	11.3%	15.65	32,550	14.28	29,700	4	None	None
11	31-1011	Home Health Aides	10.8%	13.96	29,040	11.32	23,540	8	None	ST OJT
12	21-1093	Social and Human Service Assistants	11.0%	21.59	44,900	19.40	40,360	7	None	ST OJT
13	43-1011	First-Line Supervisors of Office and Administrative Support Workers	10.3%	28.68	59,650	27.17	56,510	7	<5 years	None
14	37-2012	Maids and Housekeeping Cleaners	11.0%	12.64	26,300	11.26	23,410	8	None	ST OJT
15	11-9111	Medical and Health Services Managers	13.1%	57.22	119,030	55.44	115,310	3	<5 years	None
16	39-9011	Childcare Workers	13.0%	12.06	25,080	11.35	23,600	7	None	ST OJT
17	29-2021	Dental Hygienists	12.7%	46.69	97,120	49.93	103,860	4	None	None
18	43-3021	Billing and Posting Clerks	12.5%	17.91	37,240	17.24	35,860	7	None	MT OJT
19	29-1123	Physical Therapists	11.8%	44.29	92,120	44.62	92,810	1	None	None
20	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	12.6%	19.31	40,160	18.38	38,240	7	None	ST OJT
21	29-2012	Medical and Clinical Laboratory Technicians	13.0%	21.65	45,030	19.90	41,400	4	None	None
22	29-2034	Radiologic Technologists	12.9%	33.94	70,590	34.12	70,960	4	None	None
23	29-2041	Emergency Medical Technicians and Paramedics	12.8%	17.3	35,980	14.32	29,780	5	None	None
24	29-2071	Medical Records and Health Information Technicians	13.5%	22.76	47,330	20.47	42,580	5	None	None
25	29-1062	Family and General Practitioners	13.5%	88.32	183,710	79.52	165,400	1	None	I/R
26	21-1021	Child, Family, and School Social Workers	15.7%	27.91	58,050	25.52	53,090	3	None	None
27	29-1126	Respiratory Therapists	15.9%	35.99	74,850	35.98	74,830	4	None	None
28	37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	16.2%	13.89	28,890	12.77	26,560	8	None	ST OJT
29	11-1021	General and Operations Managers	16.3%	62.25	129,480	50.74	105,530	3	≥5 years	None
30	43-4051	Customer Service Representatives	15.8%	18.48	38,430	17.07	35,510	7	None	ST OJT
31	29-1021	Dentists, General	15.4%	83.24	173,150	75.82	157,700	1	None	None
32	29-2099	Health Technologists and Technicians, All Other	15.4%	23.11	48,080	21.51	44,730	7	None	None
33	31-9097	Phlebotomists	15.4%	18.43	38,330	17.73	36,880	5	None	None
34	21-1022	Healthcare Social Workers	15.3%	32.86	68,360	31.56	65,640	2	None	None
35	29-1051	Pharmacists	15.4%	64.6	134,380	67.42	140,240	1	None	None
36	35-2012	Cooks, Institution and Cafeteria	15.9%	14.5	30,160	13.92	28,950	8	None	ST OJT
37	35-3041	Food Servers, Nonrestaurant	15.8%	14.27	29,680	11.82	24,580	8	None	ST OJT
38	13-1199	Business Operations Specialists, All Other	16.8%	36.53	75,990	34.27	71,290	3	None	None

39	43-3031	Bookkeeping, Accounting, and Auditing Clerks	16.5%	21.13	43,940	20.10	41,800	6	None	MT OJT
40	21-1015	Rehabilitation Counselors	16.7%	15.93	33,130	13.63	28,350	2	None	None
41	21-1014	Mental Health Counselors	16.9%	26.12	54,330	22.67	47,150	2	None	I/R
42	29-1171	Nurse Practitioners	16.6%	58.71	122,120	58.03	120,700	2	None	None
43	29-2055	Surgical Technologists	16.1%	27.22	56,610	27.17	56,510	5	None	None
44	29-2011	Medical and Clinical Laboratory Technologists	16.6%	40.17	83,560	40.54	84,310	3	None	None
45	11-9151	Social and Community Service Managers	16.5%	38.21	79,470	34.92	72,640	3	≥5 years	None
46	43-4111	Interviewers, Except Eligibility and Loan	16.4%	17.83	37,090	17.16	35,700	7	None	ST OJT
47	29-1122	Occupational Therapists	16.2%	41.89	87,140	43.70	90,890	2	None	None
48	29-2052	Pharmacy Technicians	16.6%	18.73	38,960	17.98	37,390	7	None	MT OJT
49	19-3031	Clinical, Counseling, and School Psychologists	16.6%	38.6	80,300	37.92	78,870	1	None	I/R
50	49-9071	Maintenance and Repair Workers, General	15.9%	21.34	44,400	19.82	41,230	7	None	LT OJT

Education: 1=Doctoral or professional degree; 2=Master's degree; 3=Bachelor's degree; 4=Associate's degree; 5=Postsecondary non-degree award; 6=Some college, no degree; 7=High school diploma or equivalent; 8=Less than high school. **On-the-Job Training:** I/R=Internship/Residency; APP=Apprenticeship; LT OJT=Long-term on-the-job training (more than one year); MT OJT=Moderate-term on-the-job training (1-12 months); ST OJT=Short-term on-the-job training (1 month or less)

Sources: Estimates by LAEDC; Education and skills requirements from BLS

2.4 Accommodation and Food Services

Exhibit 2-4

Top Occupations in L.A. County's Accommodation and Food Services Industry

	SOC Code	Occupation	% of Industry	Hourly Average Wage	Annual Average Wage	Hourly Median Wage	Annual Median Wage	Entry Level Education	Work Experience	On-the-Job Training
1	35-1012	First-Line Supervisors of Food Preparation and Serving Workers	4.8%	16.61	34,560	15.19	31,590	7	<5 years	None
2	11-9051	Food Service Managers	2.1%	23.5	48,890	20.62	42,890	7	<5 years	None
3	43-4081	Hotel, Motel, and Resort Desk Clerks	1.6%	12.37	25,730	11.43	23,780	7	None	ST OJT
4	35-1011	Chefs and Head Cooks	1.1%	19.59	40,740	17.34	36,070	7	≥5 years	None
5	11-1021	General and Operations Managers	0.8%	62.25	129,480	50.74	105,530	3	≥5 years	None
6	53-3031	Driver/Sales Workers	0.7%	14.26	29,650	11.68	24,300	7	None	ST OJT
7	49-9071	Maintenance and Repair Workers, General	0.6%	21.34	44,400	19.82	41,230	7	None	LT OJT
8	33-9032	Security Guards	0.5%	12.83	26,690	11.41	23,730	7	None	ST OJT
9	43-3031	Bookkeeping, Accounting, and Auditing Clerks	0.4%	21.13	43,940	20.10	41,800	6	None	MT OJT
10	11-9081	Lodging Managers	0.3%	28.81	59,930	24.59	51,140	7	<5 years	None
11	37-1011	First-Line Supervisors of Housekeeping and Janitorial Workers	0.3%	21.57	44,870	20.77	43,190	7	<5 years	None
12	43-9061	Office Clerks, General	0.2%	15.88	33,030	14.83	30,840	7	None	ST OJT
13	39-6011	Baggage Porters and Bellhops	0.2%	13.24	27,530	11.68	24,300	7	None	ST OJT
14	39-3011	Gaming Dealers	0.2%	13.21	27,470	11.97	24,890	7	None	ST OJT
15	43-1011	First-Line Supervisors of Office and Administrative Support Workers	0.2%	28.68	59,650	27.17	56,510	7	<5 years	None
16	41-3099	Sales Representatives, Services, All Other	0.2%	29.74	61,870	25.46	52,950	7	None	MT OJT
17	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	0.2%	19.31	40,160	18.38	38,240	7	None	ST OJT
18	13-1121	Meeting, Convention, and Event Planners	0.1%	26.88	55,900	25.12	52,260	3	None	None
19	31-9011	Massage Therapists	0.1%	20.1	41,800	19.58	40,720	5	None	None
20	43-4051	Customer Service Representatives	0.1%	18.48	38,430	17.07	35,510	7	None	ST OJT
21	13-2011	Accountants and Auditors	0.1%	37.94	78,910	34.66	72,090	3	None	None
22	39-6012	Concierges	0.1%	15.64	32,530	15.84	32,940	7	None	MT OJT
23	53-3033	Light Truck or Delivery Services Drivers	0.1%	17.16	35,690	14.21	29,550	7	None	ST OJT
24	43-2011	Switchboard Operators, Including Answering Service	0.1%	15.65	32,550	14.35	29,850	7	None	ST OJT
25	11-2022	Sales Managers	0.1%	61.25	127,410	52.86	109,960	3	<5 years	None
26	49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	0.1%	36.01	74,910	34.95	72,710	7	<5 years	None
27	11-3031	Financial Managers	0.1%	72.17	150,110	65.08	135,370	3	≥5 years	None
28	43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	0.1%	19.05	39,620	19.43	40,410	7	None	ST OJT
29	41-1011	First-Line Supervisors of Retail Sales Workers	0.1%	20.71	43,080	18.36	38,180	7	<5 years	None
30	39-9032	Recreation Workers	0.1%	13.26	27,580	12.57	26,140	7	None	ST OJT
31	43-4171	Receptionists and Information Clerks	0.1%	14.57	30,300	13.64	28,380	7	None	ST OJT
32	13-1071	Human Resources Specialists	0.1%	34.34	71,430	31.14	64,770	3	None	None
33	11-3011	Administrative Services Managers	0.1%	48.61	101,110	43.82	91,140	3	<5 years	None
34	43-3051	Payroll and Timekeeping Clerks	0.0%	21.88	45,510	21.70	45,140	7	None	MT OJT
35	43-6011	Executive Secretaries and Executive Administrative Assistants	0.0%	29.15	60,630	28.47	59,230	7	<5 years	None

36	39-3093	Locker Room, Coatroom, and Dressing Room Attendants	0.0%	14.31	29,770	15.01	31,230	7	None	ST OJT
37	13-1199	Business Operations Specialists, All Other	0.0%	36.53	75,990	34.27	71,290	3	None	None
38	43-3021	Billing and Posting Clerks	0.0%	17.91	37,240	17.24	35,860	7	None	MT OJT
39	51-3093	Food Cooking Machine Operators and Tenders	0.0%	12.02	25,000	10.05	20,910	7	None	MT OJT
40	43-5071	Shipping, Receiving, and Traffic Clerks	0.0%	14.82	30,830	13.73	28,570	7	None	ST OJT
41	13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	0.0%	33.98	70,680	32.51	67,630	3	None	LT OJT
42	49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	0.0%	17.82	37,070	15.73	32,730	7	None	ST OJT
43	39-9031	Fitness Trainers and Aerobics Instructors	0.0%	24.5	50,970	23.99	49,910	7	None	ST OJT
44	43-3041	Gaming Cage Workers	0.0%	15.25	31,730	13.05	27,130	7	None	ST OJT
45	11-9199	Managers, All Other	0.0%	62.53	130,060	58.11	120,860	3	<5 years	None
46	13-1161	Market Research Analysts and Marketing Specialists	0.0%	35	72,790	30.75	63,970	3	None	None
47	39-1021	First-Line Supervisors of Personal Service Workers	0.0%	22.43	46,660	20.38	42,390	7	<5 years	None
48	39-5094	Skincare Specialists	0.0%	17.65	36,700	16.56	34,450	5	None	None
49	11-3121	Human Resources Managers	0.0%	60.44	125,710	56.40	117,320	3	≥5 years	None
50	43-4161	Human Resources Assistants, Except Payroll and Timekeeping	0.0%	21.29	44,270	20.67	42,990	4	None	None

Education: 1=Doctoral or professional degree; 2=Master's degree; 3=Bachelor's degree; 4=Associate's degree; 5=Postsecondary non-degree award; 6=Some college, no degree; 7=High school diploma or equivalent; 8=Less than high school; **On-the-Job Training:** I/R=Internship/Residency; APP=Apprenticeship; LT OJT=Long-term on-the-job training (more than one year); MT OJT=Moderate-term on-the-job training (1-12 months); ST OJT=Short-term on-the-job training (1 month or less)

Sources: Estimates by LAEDC; Education and skills requirements from BLS

2.5 Transportation and Warehousing

Exhibit 2-5
Top Occupations in L.A. County's Transportation and Warehousing Industry

	SOC Code	Occupation	% of Industry	Hourly Average Wage	Annual Average Wage	Hourly Median Wage	Annual Median Wage	Entry Level Education	Work Experience	On-the-Job Training
1	53-3032	Heavy and Tractor-Trailer Truck Drivers	14.57%	20.54	42,730	19.21	39,960	5	None	ST OJT
2	43-5052	Postal Service Mail Carriers	6.17%	25.56	53,160	28.50	59,290	7	None	ST OJT
3	53-3033	Light Truck or Delivery Services Drivers	4.99%	17.16	35,690	14.21	29,550	7	None	ST OJT
4	53-3022	Bus Drivers, School or Special Client	2.63%	14.51	30,180	13.64	28,370	7	None	ST OJT
5	43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	2.44%	19.05	39,620	19.43	40,410	7	None	ST OJT
6	43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	2.44%	24.15	50,230	26.78	55,700	7	None	ST OJT
7	43-5011	Cargo and Freight Agents	2.12%	22.54	46,880	20.52	42,690	7	None	ST OJT
8	43-5032	Dispatchers, Except Police, Fire, and Ambulance	1.93%	19.01	39,540	17.04	35,430	7	None	MT OJT
9	43-5071	Shipping, Receiving, and Traffic Clerks	1.84%	14.82	30,830	13.73	28,570	7	None	ST OJT
10	53-3021	Bus Drivers, Transit and Intercity	1.69%	18.84	39,190	18.69	38,880	7	None	MT OJT
11	43-1011	First-Line Supervisors of Office and Administrative Support Workers	1.65%	28.68	59,650	27.17	56,510	7	<5 years	None
12	53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	1.61%	31.08	64,640	30.00	62,400	7	<5 years	None
13	49-3011	Aircraft Mechanics and Service Technicians	1.50%	31.27	65,050	32.09	66,750	5	None	None
14	11-1021	General and Operations Managers	1.47%	62.25	129,480	50.74	105,530	3	≥5 years	None
15	43-5051	Postal Service Clerks	1.38%	25.95	53,980	27.31	56,800	7	None	ST OJT
16	43-4051	Customer Service Representatives	1.37%	18.48	38,430	17.07	35,510	7	None	ST OJT
17	53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	1.31%	23.75	49,400	21.57	44,870	7	<5 years	None
18	43-9061	Office Clerks, General	1.21%	15.88	33,030	14.83	30,840	7	None	ST OJT
19	41-3099	Sales Representatives, Services, All Other	1.02%	29.74	61,870	25.46	52,950	7	None	MT OJT
20	49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	1.02%	25.71	53,480	26.45	55,020	7	None	LT OJT
21	11-3071	Transportation, Storage, and Distribution Managers	0.94%	46.21	96,110	41.06	85,400	7	≥5 years	None
22	43-5021	Couriers and Messengers	0.93%	15.97	33,220	15.39	32,020	7	None	ST OJT
23	43-3031	Bookkeeping, Accounting, and Auditing Clerks	0.80%	21.13	43,940	20.10	41,800	6	None	MT OJT
24	49-9071	Maintenance and Repair Workers, General	0.80%	21.34	44,400	19.82	41,230	7	None	LT OJT
25	53-6099	Transportation Workers, All Other	0.79%	18.01	37,460	18.30	38,060	7	None	ST OJT
26	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	0.64%	19.31	40,160	18.38	38,240	7	None	ST OJT
27	53-6061	Transportation Attendants, Except Flight Attendants	0.56%	13.39	27,850	12.46	25,920	7	None	ST OJT
28	43-5061	Production, Planning, and Expediting Clerks	0.52%	22.82	47,470	21.35	44,410	7	None	MT OJT
29	49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	0.44%	36.01	74,910	34.95	72,710	7	<5 years	None

30	43-3021	Billing and Posting Clerks	0.38%	17.91	37,240	17.24	35,860	7	None	MT OJT
31	13-1199	Business Operations Specialists, All Other	0.35%	36.53	75,990	34.27	71,290	3	None	None
32	43-4151	Order Clerks	0.33%	16.21	33,720	14.98	31,170	7	None	ST OJT
33	53-3031	Driver/Sales Workers	0.32%	14.26	29,650	11.68	24,300	7	None	ST OJT
34	13-2011	Accountants and Auditors	0.27%	37.94	78,910	34.66	72,090	3	None	None
35	39-6011	Baggage Porters and Bellhops	0.25%	13.24	27,530	11.68	24,300	7	None	ST OJT
36	53-5021	Captains, Mates, and Pilots of Water Vessels	0.24%	32.43	67,450	30.15	62,710	5	<5 years	None
37	33-9032	Security Guards	0.23%	12.83	26,690	11.41	23,730	7	None	ST OJT
38	11-2022	Sales Managers	0.22%	61.25	127,410	52.86	109,960	3	<5 years	None
39	11-3011	Administrative Services Managers	0.21%	48.61	101,110	43.82	91,140	3	<5 years	None
40	49-3023	Automotive Service Technicians and Mechanics	0.20%	19.33	40,210	17.07	35,500	5	None	ST OJT
41	43-9021	Data Entry Keyers	0.18%	14.93	31,050	14.11	29,350	7	None	MT OJT
42	49-2091	Avionics Technicians	0.18%	31.94	66,440	32.17	66,910	4	None	None
43	43-4171	Receptionists and Information Clerks	0.17%	14.57	30,300	13.64	28,380	7	None	ST OJT
44	49-9098	Helpers--Installation, Maintenance, and Repair Workers	0.17%	14.83	30,850	13.85	28,810	7	None	ST OJT
45	53-6051	Transportation Inspectors	0.17%	35.75	74,360	33.60	69,880	7	None	MT OJT
46	51-9111	Packaging and Filling Machine Operators and Tenders	0.16%	13.55	28,180	11.55	24,020	7	None	MT OJT
47	13-1071	Human Resources Specialists	0.15%	34.34	71,430	31.14	64,770	3	None	None
48	43-4071	File Clerks	0.15%	15.24	31,690	14.14	29,420	7	None	ST OJT
49	53-1011	Aircraft Cargo Handling Supervisors	0.15%	26.74	55,620	26.51	55,140	7	<5 years	None
50	43-3011	Bill and Account Collectors	0.14%	19.85	41,280	18.35	38,180	7	None	MT OJT

Education: 1=Doctoral or professional degree; 2=Master's degree; 3=Bachelor's degree; 4=Associate's degree; 5=Postsecondary non-degree award; 6=Some college, no degree; 7=High school diploma or equivalent; 8=Less than high school; **On-the-Job Training:** I/R=Internship/Residency; APP=Apprenticeship; LT OJT=Long-term on-the-job training (more than one year); MT OJT=Moderate-term on-the-job training (1-12 months); ST OJT=Short-term on-the-job training (1 month or less)

Sources: Estimates by LAEDC; Education and skills requirements from BLS

2.6 Information Technology

Exhibit 2-6

Top Occupations in L.A. County's Information Technology Sector

	SOC Code	Occupation	% of Industry	Hourly Average Wage	Annual Average Wage	Hourly Median Wage	Annual Median Wage	Entry Level Education	Work Experience	On-the-Job Training
1	15-1132	Software Developers, Applications	6.82%	53.07	110,380	52.66	109,540	3	None	None
2	15-1133	Software Developers, Systems Software	4.19%	55.75	115,960	56.20	116,900	3	None	None
3	11-1021	General and Operations Managers	2.83%	62.25	129,480	50.74	105,530	3	≥5 years	None
4	13-1161	Market Research Analysts and Marketing Specialists	2.74%	35.00	72,790	30.75	63,970	3	None	None
5	41-3099	Sales Representatives, Services, All Other	2.47%	29.74	61,870	25.46	52,950	7	None	MT OJT
6	15-1121	Computer Systems Analysts	2.45%	45.58	94,800	44.78	93,150	3	None	None
7	43-4051	Customer Service Representatives	2.24%	18.48	38,430	17.07	35,510	7	None	ST OJT
8	13-1111	Management Analysts	2.19%	47.54	98,880	42.07	87,510	3	<5 years	None
9	11-3021	Computer and Information Systems Managers	2.04%	73.47	152,820	68.87	143,250	3	≥5 years	None
10	15-1151	Computer User Support Specialists	1.93%	27.56	57,320	26.55	55,230	6	None	None
11	13-1199	Business Operations Specialists, All Other	1.87%	36.53	75,990	34.27	71,290	3	None	None
12	43-9061	Office Clerks, General	1.86%	15.88	33,030	14.83	30,840	7	None	ST OJT
13	15-1131	Computer Programmers	1.66%	45.98	95,650	45.10	93,800	3	None	None
14	13-2011	Accountants and Auditors	1.54%	37.94	78,910	34.66	72,090	3	None	None
15	17-2061	Computer Hardware Engineers	1.49%	53.68	111,650	52.58	109,370	3	None	None
16	43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	1.47%	19.31	40,160	18.38	38,240	7	None	ST OJT
17	49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	1.40%	26.93	56,020	26.83	55,810	5	None	MT OJT
18	15-1142	Network and Computer Systems Administrators	1.27%	40.78	84,820	39.76	82,700	3	None	None
19	41-4011	Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	1.26%	41.19	85,670	34.82	72,430	3	None	MT OJT
20	43-6011	Executive Secretaries and Executive Administrative Assistants	1.25%	29.15	60,630	28.47	59,230	7	<5 years	None
21	27-2012	Producers and Directors	1.22%	65.22	135,650	46.20	96,100	3	<5 years	None
22	43-3031	Bookkeeping, Accounting, and Auditing Clerks	1.18%	21.13	43,940	20.10	41,800	6	None	MT OJT
23	17-2072	Electronics Engineers, Except Computer	1.17%	57.93	120,500	56.82	118,190	3	None	None
24	51-2022	Electrical and Electronic Equipment Assemblers	1.15%	16.17	33,640	14.81	30,810	7	None	MT OJT
25	27-1024	Graphic Designers	1.03%	28.21	58,670	25.07	52,140	3	None	None
26	43-1011	First-Line Supervisors of Office and Administrative Support Workers	0.96%	28.68	59,650	27.17	56,510	7	<5 years	None
27	15-1134	Web Developers	0.93%	33.85	70,410	31.16	64,820	4	None	None
28	11-2021	Marketing Managers	0.93%	70.61	146,860	66.87	139,080	3	≥5 years	None
29	11-9041	Architectural and Engineering Managers	0.90%	77.33	160,840	71.98	149,710	3	≥5 years	None
30	43-5071	Shipping, Receiving, and Traffic Clerks	0.89%	14.82	30,830	13.73	28,570	7	None	ST OJT
31	43-5061	Production, Planning, and Expediting Clerks	0.88%	22.82	47,470	21.35	44,410	7	None	MT OJT
32	11-2022	Sales Managers	0.86%	61.25	127,410	52.86	109,960	3	<5 years	None
33	13-1071	Human Resources Specialists	0.80%	34.34	71,430	31.14	64,770	3	None	None

34	17-3023	Electrical and Electronics Engineering Technicians	0.78%	30.86	64,180	30.02	62,450	4	None	None
35	17-2071	Electrical Engineers	0.78%	50.86	105,780	48.95	101,820	3	None	None
36	11-3031	Financial Managers	0.74%	72.17	150,110	65.08	135,370	3	≥5 years	None
37	41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	0.73%	29.08	60,500	23.06	47,970	7	None	MT OJT
38	51-2092	Team Assemblers	0.73%	13.07	27,180	11.54	24,010	7	None	MT OJT
39	41-3011	Advertising Sales Agents	0.71%	35.60	74,040	30.48	63,400	7	None	MT OJT
40	51-5112	Printing Press Operators	0.69%	17.14	35,650	15.19	31,600	7	None	MT OJT
41	15-1199	Computer Occupations, All Other	0.69%	38.22	79,490	36.11	75,120	3	None	None
42	51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	0.67%	19.16	39,860	17.06	35,490	7	None	MT OJT
43	27-4032	Film and Video Editors	0.65%	54.07	112,460	45.26	94,130	3	None	None
44	15-1152	Computer Network Support Specialists	0.63%	35.69	74,230	34.26	71,260	4	None	None
45	13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	0.63%	33.98	70,680	32.51	67,630	3	None	LT OJT
46	15-1143	Computer Network Architects	0.61%	57.83	120,290	57.68	119,980	3	≥5 years	None
47	31-9096	Veterinary Assistants and Laboratory Animal Caretakers	0.60%	13.86	28,820	13.07	27,190	7	None	ST OJT
48	13-2051	Financial Analysts	0.59%	44.72	93,010	41.53	86,390	3	None	None
49	17-2112	Industrial Engineers	0.57%	49.51	102,970	47.45	98,700	3	None	None
50	27-3031	Public Relations Specialists	0.56%	35.12	73,050	29.21	60,760	3	None	None

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Sources: Estimates by LAEDC; Education and skills requirements from BLS