MAINE STATE LEGISLATURE

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Maine **Employment** Outlook to 2012

Projections to 2012

focusing on:

- Growing and declining industries and occupations
- Job Openings
- Education and training requirements

Maine Employment Outlook

2002 to 2012

Industrial and Occupational Employment Projections

This publication is a product of the Economic and Demographic Research Group Dana Evans, State Labor Economist

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Preface

Maine Employment Outlook highlights industry and occupational employment projections for the period from 2002 to 2012. The labor market of the future is being shaped by many factors, including technological change and social and demographic trends. Labor market trends in Maine have largely followed a similar course to national trends for many years. These projections generally mirror national projections published by the U.S. Bureau of Labor Statistics for the same period.

Projection Highlights

- Employment opportunities will be concentrated in the service-providing industries.
 Education and health services, retail trade, and leisure and hospitality services are expected to create about two-thirds of all new jobs.
- □ The occupational structure of employment will shift along with changes in the industrial structure and technology. Many of the fastest growing occupations will be health carerelated, largely due to rapid growth in the number of middle age and elderly people.
- □ Technology will continue to impact the structure of employment and how work is done. Computers will increasingly be a part of a wide range of work processes and computer-related occupations will continue to grow faster than the average.

This monograph was produced by Glenn Mills, Senior Economic Analyst. Questions about industry trends should be directed to Glenn. Questions about occupational trends should be directed to Merrill Huhtala, Manager of the Occupational Employment Statistics Program. Glenn and Merrill can be reached at (207) 287-2271.

John Dorrer, Director Division of Labor Market Information Services Maine Department of Labor

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Industry Employment 2002 and Projected 2012

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Employment by Industry in Maine, 2002 and Projected 2012						
	Average Er	nployment	Employme	nt Change		
Industry	2002	2012	Net	Percent		
Total Employment	661,107	729,245	68,138	10.3%		
Self-Employed, Private Household, and Unpaid Family Workers	63,100	69,000	5,900	9.4%		
Wage and Salary Jobs	598,007	660,245	62,238	10.4%		
Total Private	499,662	555,774	56,112	11.2%		
Goods-Producing Industries	103,101	94,412	-8,689	-8.4%		
Natural Resources and Mining	5,702	6,077	375	6.6%		
Agriculture, Forestry, Fishing and Hunting	5,579	5,960	381	6.8%		
Crop production	1,469	1,628	159	10.8%		
Animal production	695	832	137	19.7%		
Forestry and logging	2,622	2,621	-1	0.0%		
Fishing, hunting and trapping	302	441	139	46.0%		
Agriculture and forestry support activities	491	438	-53	-10.8%		
Mining	123	117	-6	-4.9%		
Mining, except oil and gas	123	117	-6	-4.9%		
Construction	29,410	29,506	96	0.3%		
Construction of buildings	7,592	7,592	0	0.0%		
Heavy and civil engineering construction	3,866	3,962	96	2.5%		
Specialty trade contractors	17,952	17,952	0	0.0%		
Manufacturing	67,989	58,829	-9,160	-13.5%		
Durable Goods	35,670	32,384	-3,286	-9.2%		
Wood product manufacturing	6,731	5,639	-1,092	-16.2%		
Nonmetallic mineral product manufacturing	1,570	1,595	25	1.6%		
Primary metal manufacturing	382	339	-43	-11.3%		
Fabricated metal product manufacturing	4,781	4,477	-304	-6.4%		
Machinery manufacturing	2,502	2,395	-107	-4.3%		
Computer and electronic product manufacturing	4,729	4,556	-173	-3.7%		
Electrical equipment and appliance mfg.	1,004	979	-25	-2.5%		
Transportation equipment manufacturing	10,208	9,064	-1,144	-11.2%		
Furniture and related product manufacturing	1,956	1,673	-283	-14.5%		
Miscellaneous manufacturing	1,807	1,667	-140	-7.7%		
Nondurable Goods	32,319	26,445	-5,874	-18.2%		
Food manufacturing	6,586	6,700	114	1.7%		
Beverage and tobacco product manufacturing	414	451	37	8.9%		
Textile mills	2,142	1,377	-765	-35.7%		
Textile product mills	1,154	1,000	-154	-13.3%		
Apparel manufacturing	985	637	-348	-35.3%		
Leather and allied product manufacturing	2,689	1,336	-1,353	-50.3%		
Paper manufacturing	11,655	8,765	-2,890	-24.8%		
Printing and related support activities	2,635	2,546	-89	-3.4%		
Petroleum and coal products manufacturing	395	432	37	9.4%		
Chemical manufacturing	1,361	1,329	-32	-2.4%		

Employment by Industry in Maine, 2002 and Projected 2012						
To Jundan	Average En	nployment	Employme	nt Change		
Industry	2002	2012	Net	Percent		
Plastics and rubber products manufacturing	2,303	1,872	-431	-18.7%		
Service-Providing Industries	494,906	565,833	70,927	14.3%		
Trade, Transportation, and Utilities	123,260	137,224	13,964	11.3%		
Wholesale Trade	20,082	22,811	2,729	13.6%		
Merchant wholesalers, durable goods	9,348	11,140	1,792	19.2%		
Merchant wholesalers, nondurable goods	8,032	8,328	296	3.7%		
Electronic markets and agents and brokers	2,702	3,343	641	23.7%		
Retail Trade	86,156	96,349	10,193	11.8%		
Motor vehicle and parts dealers	10,397	12,279	1,882	18.1%		
Furniture and home furnishings stores	2,577	2,944	367	14.2%		
Electronics and appliance stores	1,914	2,333	419	21.9%		
Building material and garden supply stores	6,786	7,872	1,086	16.0%		
Food and beverage stores	19,249	21,748	2,499	13.0%		
Health and personal care stores	3,507	3,684	177	5.0%		
Gasoline stations	7,591	8,383	792	10.4%		
Clothing and clothing accessories stores	4,976	4,681	-295	-5.9%		
Sporting goods, hobby, book and music stores	3,969	4,357	388	9.8%		
General merchandise stores	11,698	12,424		6.2%		
Miscellaneous store retailers	5,659	6,595		16.5%		
Nonstore retailers	7,833	9,049		15.5%		
Transportation and Warehousing	14,797	16,061	1,264	8.5%		
Air transportation	486	466		-4.1%		
Rail transportation	800	800	0	0.0%		
Water transportation	146	180	34	23.3%		
Truck transportation	6,039	6,192	153	2.5%		
Transit and ground passenger transportation	1,463	1,797	334	22.8%		
Pipeline transportation	55	73		32.7%		
Scenic and sightseeing transportation	240	320	80	33.3%		
Support activities for transportation	1,313	1,562		19.0%		
Couriers and messengers	1,942	2,158		11.1%		
Warehousing and storage	2,313	2,513		8.6%		
Utilities	2,225	2,003		-10.0%		
Information	11,546	12,170		5.4%		
Publishing industries, except Internet	3,411	3,856		13.0%		
Motion picture and sound recording industries	726	1,013		39.5%		
Broadcasting, except Internet	1,757	1,757	1	0.0%		
Internet publishing and broadcasting	37	46		24.3%		
Telecommunications	3,361	3,083		-8.3%		
ISPs, search portals, and data processing	1,309	1,300		-0.7%		
Other Information Services	945	1,115	.	18.0%		
Financial Activities	35,202	38,044				

Employment by Industry in Maine, 2002 and Projected 2012					
T 1	Average E	nployment	Employme	nt Change	
Industry	2002	2012	Net	Percent	
Finance and Insurance	28,511	30,197	1,686	5.9%	
Credit intermediation and related activities	13,926	14,630	704	5.1%	
Securities, commodity contracts, investments	1,697	2,344	647	38.1%	
Insurance carriers and related activities	12,849	13,177	328	2.6%	
Funds, trusts, and other financial vehicles	39	46	7	17.9%	
Real Estate and Rental and Leasing	6,691	7,847	1,156	17.3%	
Real estate	3,838	4,427	589	15.3%	
Rental and leasing services	2,853	3,420	567	19.9%	
Professional and Business Services	51,404	58,101	6,697	13.0%	
Professional, Scientific and Tech Services	22,658	25,440	2,782	12.3%	
Management of companies and enterprises	6,252	6,203	-49	-0.8%	
Administrative and support services	20,913	24,810	3,897	18.6%	
Waste management and remediation services	1,581	1,648	67	4.2%	
Education and Health Services	96,116	123,817	27,701	28.8%	
Educational services	8,872	10,883	2,011	22.7%	
Health Care and Social Assistance	87,244	112,934	25,690	29.4%	
Ambulatory health care services	23,753	31,295	7,542	31.8%	
Hospitals	25,434	30,793	5,359	21.1%	
Nursing and residential care facilities	22,236	28,663	6,427	28.9%	
Social assistance	15,821	22,183	6,362	40.2%	
Leisure and Hospitality	57,312	66,993	9,681	16.9%	
Arts, Entertainment, and Recreation	7,883	10,578	2,695	34.2%	
Performing arts and spectator sports	1,097	1,296	199	18.1%	
Museums, historical sites, zoos, and parks	439	439	0	0.0%	
Amusements, gambling, and recreation	6,347	8,843	2,496	39.3%	
Accomodation and Food Services	49,429	56,415	6,986	14.1%	
Accommodation	10,897	12,478	1,581	14.5%	
Food services and drinking places	38,532	43,937	5,405	14.0%	
Other Services	21,721	25,013	3,292	15.2%	
Repair and maintenance	5,065	5,958	893	17.6%	
Personal and laundry services	4,203	4,595	392	9.3%	
Membership associations and organizations	10,411	12,418	2,007	19.3%	
Private households	2,042	2,042	0	0.0%	
Government	98,345	104,471	6,126	6.2%	
Federal	13,943	14,471	528	3.8%	
State	24,382	25,000	618	2.5%	
Local	60,020	65,000	4,980	8.3%	

ndustries Projected to Gain or Lose the Largest Number of Jobs in Maine Between 2002 and 2012				
Industries Expected to Gain 150 or More S	lobs	Industries Expected to Lose Jobs		
Ambulatory health care services	7,542	Paper manufacturing	-2,890	
Nursing and residential care facilities	6,427	Leather and allied product manufacturing	-1,353	
Social assistance	6,362	Transportation equipment manufacturing	-1,144	
Food services and drinking places	5,405	Wood product manufacturing	-1,092	
Hospitals	5,359	Textile mills	-765	
Local Government	4,980	Plastics and rubber products manufacturing	-431	
Administrative and support services	3,897	Apparel manufacturing	-348	
Professional, Scientific and Tech Services	2,782	Fabricated metal product manufacturing	-304	
Food and beverage stores	2,499	Clothing and clothing accessories stores	-295	
Amusements, gambling, and recreation	2,496	Furniture and related product manufacturing	-283	
Educational services	2,011	Telecommunications	-278	
Membership associations and organizations	2,007	Computer and electronic product manufacturing	-173	
Motor vehicle and parts dealers	1,882	Textile product mills	-154	
Merchant wholesalers, durable goods	1,792	Miscellaneous manufacturing	-140	
Accommodation	1,581	Machinery manufacturing	-107	
Nonstore retailers	1,216	Printing and related support activities	-89	
Building material and garden supply stores	1,086	Agriculture and forestry support activities	-53	
Miscellaneous store retailers	936	Management of companies and enterprises	-49	
Repair and maintenance	893	Primary metal manufacturing	-43	
Gasoline stations	792	Chemical manufacturing	-32	
General merchandise stores	726	Electrical equipment and appliance mfg.	-25	
Credit intermediation and related activities	704	Air transportation	-20	
Securities, commodity contracts, investments	647	ISPs, search portals, and data processing	-9	
Electronic markets and agents and brokers	641	Mining, except oil and gas	-6	
State Government	618	Forestry and logging	-1	
Real estate	589			
Rental and leasing services	567			
Federal Government	528			
Publishing industries, except Internet	445			
Electronics and appliance stores	419			
Personal and laundry services	392			
Sporting goods, hobby, book and music stores	388			
Furniture and home furnishings stores	367			
Transit and ground passenger transportation	334			
Insurance carriers and related activities	328			
Merchant wholesalers, nondurable goods	296			
Motion picture and sound recording industries	287			
Support activities for transportation	249			
Couriers and messengers	216			
Warehousing and storage	200			
Performing arts and spectator sports	199			
Health and personal care stores	177			
Other Information Services	170			
Crop production	159			
Truck transportation	153			

Industries Projected to Gain or Lose Job	s at the	Fastest Rate in Maine Between 2002 and	2012
Industries Expected to Gain Jobs by Eight Percent	or More	Industries Expected to Lose Jobs	
Fishing, hunting and trapping	46.0%	Leather and allied product manufacturing	-50.3%
Social assistance	40.2%	Textile mills	-35.7%
Motion picture and sound recording industries	39.5%	Apparel manufacturing	-35.3%
Amusements, gambling, and recreation	39.3%	Paper manufacturing	-24.8%
Securities, commodity contracts, investments	38,1%	Plastics and rubber products manufacturing	-18.7%
Scenic and sightseeing transportation	33.3%	Wood product manufacturing	-16.2%
Pipeline transportation	32.7%	Furniture and related product manufacturing	-14.5%
Ambulatory health care services	31.8%	Textile product mills	-13.3%
Nursing and residential care facilities	28.9%	Primary metal manufacturing	-11.3%
Internet publishing and broadcasting	24.3%	Transportation equipment manufacturing	-11.2%
Electronic markets and agents and brokers	23.7%	Agriculture and forestry support activities	-10.8%
Water transportation	23.3%	Telecommunications	-8.3%
Transit and ground passenger transportation	22.8%	Miscellaneous manufacturing	-7.7%
Educational services	22.7%	Fabricated metal product manufacturing	-6.4%
Electronics and appliance stores	21.9%	Clothing and clothing accessories stores	-5.9%
Hospitals	21.1%	Mining, except oil and gas	-4.9%
Rental and leasing services	19.9%	Machinery manufacturing	-4.3%
Animal production	19.7%	Air transportation	-4.1%
Membership associations and organizations	19.3%	Computer and electronic product manufacturing	-3.7%
Merchant wholesalers, durable goods	19.2%	Printing and related support activities	-3.4%
Support activities for transportation	19.0%	Electrical equipment and appliance mfg.	-2.5%
Administrative and support services	18.6%	Chemical manufacturing	-2.4%
Performing arts and spectator sports	18.1%	Management of companies and enterprises	-0.8%
Motor vehicle and parts dealers	18.1%	ISPs, search portals, and data processing	-0.7%
Other Information Services	18.0%	Forestry and logging	0.0%
Funds, trusts, and other financial vehicles	17.9%		
Repair and maintenance	17.6%		
Miscellaneous store retailers	16.5%		
Building material and garden supply stores	16.0%		
Nonstore retailers	15.5%		
Real estate	15.3%		
Accommodation	14.5%		
Furniture and home furnishings stores	14.2%		
Food services and drinking places	14.0%		
Publishing industries, except Internet	13.0%		
Food and beverage stores	13.0%		
Professional, Scientific and Tech Services	12.3%		
Couriers and messengers	11.1%		
Crop production	10.8%		
Gasoline stations	10.4%		
Sporting goods, hobby, book and music stores	9.8%		
Petroleum and coal products manufacturing	9.4%		
Personal and laundry services	9.3%		
Beverage and tobacco product manufacturing	8.9%		
Warehousing and storage	8.6%		
Local Government	8.3%		

Occupational Employment 2002 and Projected 2012

Employment by Occupational Group in Maine in 2002 and Projected 2012 Change in Average Average Annual Openings 2003 **Employment Employment Occupational Group** Average Replace-2002 2012 Growth Wage Net Percent Total ment Total 661,107 729,245 68,138 10.3% 7,979 15,688 23,667 \$15.51 Management, Business and Financial Occupations 62,729 71,172 8,443 13.5% 858 1,128 1,986 \$28.10 Management Occupations 41,992 47,286 5,294 12.6% 542 756 1,298 \$31.79 **Business and Financial Operations Occupations** 20,737 23,886 3,149 372 688 15.2% 316 \$22.66 Professional and Related Occupations 127,470 150,334 22,864 17.9% 4,853 2,355 2,498 \$21.01 Computer and Mathematical Occupations 7,553 8,718 1,165 15.4% 121 99 220 \$24.92 Architecture and Engineering Occupations 9,858 9,943 85 0.9% 267 41 226 \$25.97 Life, Physical, and Social Science Occupations 4,769 5,678 909 19.1% 92 203 111 \$22.24 Community and Social Services Occupations 20,223 15,246 4,977 32.6% 790 496 294 \$15.34 Legal Occupations 4,391 4,875 484 11.0% 50 51 101 \$32.39 Education, Training, and Library Occupations 42,277 47,055 4,778 11.3% 902 500 1,402 \$16.63 Arts, Design, Entertainment, Sports, and Media Occupations 9,234 10,721 1,487 16.1% 156 177 333 \$16.06 Healthcare Practitioners and Technical Occupations 34,142 43,121 8,979 26.3% 899 1,537 638 \$26.25 Service Occupations 132,049 157,433 25,384 19.2% 2,552 3,739 6,291 \$9.91 Healthcare Support Occupations 20,002 25,826 5,824 29.1% 582 883 301 \$10.58 **Protective Service Occupations** 12,933 10,763 2,170 20.2% 217 305 522 \$13.78 Food Preparation and Serving Related Occupations 53,541 60,861 7,320 13.7% 739 2,108 2,847 \$8.70 Building and Grounds Cleaning and Maintenance Occupations 26,320 30,189 3,869 14.7% 389 530 919 \$10.19 Personal Care and Service Occupations 21,423 27,624 6,201 28.9% 625 495 1,120 \$9.81 Sales and Related Occupations 71,678 79,860 8,182 11.4% 844 2,317 \$12.98 3,161 Office and Administrative Support Occupations 1,249 98,976 100,225 1.3% 477 2,292 2,769 \$12.70 Farming, Fishing, and Forestry Occupations 8,027 8,585 558 7.0% 70 198 268 \$11.95 39,958 Construction and Extraction Occupations 38,946 1,012 2.6% 130 744 874 \$15.36 Installation, Maintenance, and Repair Occupations 28,753 31,938 3,185 353 1,017 11.1% 664 \$16.44 **Production Occupations** 48,435 43,389 -5,046 -10.4% 46 1,147 1,193 \$13.86 Transportation and Material Moving Occupations 44,044 46,351 2,307 5.2% 294 961 1,255 \$12.23

Average wages are for wage and salary workers and do not include the self-employed. The average by occupational group is an estimate calculated using 2003 wages and 2002 employment.

Occupational Employr	nent by Ed	lucation/1	Training F	Requirem	ent in Ma	ine in 20	02 and Pi	ojected 2	012	
Education/Training Requirement	Average En	nployment	Percent Emplo	1	Chan Emplo	٠ ا	Average	e Annual O	penings	2003 Average
Education Training Requirement	2002	2012	2002	2012	Net	Percent	Growth	Replace- ment	Total	Wage
Total	661,107	729,245	100.0%	100.0%	68,138	10.3%	7,979	15,688	23,667	\$15.51
First Professional degree	10,605	12,468	1.6%	1.7%	1,863	17.6%	186	175	361	\$45.00
Doctoral degree	3,624	4,639	0.5%	0.6%	1,015	28.0%	103	83	186	\$26.01
Master's degree	11,884	14,690	1.8%	2.0%	2,806	23.6%	283	247	530	\$20.21
Bachelor's degree plus work experience	31,381	35,938	4.7%	4.9%	4,557	14.5%	459	590	1,049	\$32.99
Bachelor's degree	69,919	78,769	10.6%	10.8%	8,850	12.7%	931	1,378	2,309	\$21.63
Associate degree	25,625	31,743	3.9%	4.4%	6,118	23.9%	613	498	1,111	\$21.13
Postsecondary vocational award	27,775	31,686	4.2%	4.3%	3,911	14.1%	423	589	1,012	\$14.34
Work experience in a related occupation	49,167	54,518	7.4%	7.5%	5,351	10.9%	555	1,023	1,578	\$19.18
Long-term on-the-job training	52,645	55,712	8.0%	7.6%	3,067	5.8%	422	1,102	1,524	\$15.77
Moderate-term on-the-job training	136,413	141,656	20.6%	19.4%	5,243	3.8%	1,134	2,818	3,952	\$13.77
Short-term on-the-job training	242,069	267,426	36.6%	36.7%	25,357	10.5%	2,870	7,185	10,055	\$10.08

Average wages are for wage and salary workers and do not include the self-employed. The average by education/training requirement is an estimate calculated using 2003 wages and 2002 employment.

Forty Occupations with the Largest Projected Number of Annual Openings in Maine Between 2002 and 2012										
SOC	Occupation		rage yment	Average	Annual O	penings	Education/Training Requirement			
Code	Оссирации	2002	2012	Growth	Replace- ment	Total	Equeation/Training Requirement			
41-2011	Cashiers	17,616	20,017	240	857	1,097	Short-term on-the-job training			
41-2031	Retail Salespersons	19,240	20,669	143	699	842	Short-term on-the-job training			
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	10,726	13,000	227	465	692	Short-term on-the-job training			
35-3031	Waiters and Waitresses	10,121	11,707	159	521	680	Short-term on-the-job training			
29-1111	Registered Nurses	13,000	16,469	347	272	619	Associate degree			
11-1021	General and Operations Managers	11,288	12,918	163	213	376	Bachelor's degree plus work experience			
39-9021	Personal and Home Care Aides	4,853	7,502	265	78	343	Short-term on-the-job training			
35-2021	Food Preparation Workers	6,228	7,357	113	220	333	Short-term on-the-job training			
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	10,582	11,821	124	201	325	Short-term on-the-job training			
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	9,519	10,950	143	171	314	Work experience in a related occupation			
39-9011	Child Care Workers	6,689	7,877	119	182	301	Short-term on-the-job training			
43-9061	Office Clerks, General	11,981	12,323	34	265	299	Short-term on-the-job training			
53-3032	Truck Drivers, Heavy and Tractor-Trailer	11,195	12,256	106	183	289	Moderate-term on-the-job training			
37-2012	Maids and Housekeeping Cleaners	8,128	9,205	108	171	279	Short-term on-the-job training			
31-1011	Home Health Aides	4,991	7,018	203	65	268	Short-term on-the-job training			
21-1093	Social and Human Service Assistants	3,249	5,295	205	57	262	Moderate-term on-the-job training			
31-1012	Nursing Aides, Orderlies, and Attendants	9,061	10,482	142	119	261	Short-term on-the-job training			
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	7,942	7,596	0	260	260	Short-term on-the-job training			
43-5081	Stock Clerks and Order Fillers	6,840	6,404	0	253	253	Short-term on-the-job training			
37-3011	Landscaping and Groundskeeping Workers	5,198	6,423	123	113	236	Short-term on-the-job training			
41-4012	Sales Representatives, Wholesale & Manufacturing, Except Technical & Scientific Products	5,352	6,204	85	141	226	Moderate-term on-the-job training			
25-9041	Teacher Assistants	8,065	8,751	69	156	225	Short-term on-the-job training			
47-2031	Carpenters	10,233	10,604	37	167	204	Long-term on-the-job training			
49-3023	Automotive Service Technicians and Mechanics	4,840	5,578	74	129	203	Postsecondary vocational award			
43-4051	Customer Service Representatives	7,173	8,133	96	107	203	Moderate-term on-the-job training			
25-2031	Secondary School Teachers, Except Special and Vocational Education	6,211	6,440	23	175	198	Bachelor's degree			
43-4171	Receptionists and Information Clerks	3,901	4,813	91	96	187	Short-term on-the-job training			
43-3031	Bookkeeping, Accounting, and Auditing Clerks	9,530	9,581	5	179	184	Moderate-term on-the-job training			
43-6014	Secretaries, Except Legal, Medical, and Executive	9,420	8,848	0	180	180	Moderate-term on-the-job training			
35-2014	Cooks, Restaurant	3,864	4,389	53	120	173	Long-term on-the-job training			
49-9042	Maintenance and Repair Workers, General	5,426	6,080	65	104	169	Moderate-term on-the-job training			
	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,983	2,330	35	129	164	Short-term on-the-job training			
43-3071	Tellers	2,825	3,027	20	139	159	Short-term on-the-job training			
25-2021	Elementary School Teachers, Except Special Education	6,444	6,499	6	142	148	Bachelor's degree			
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	5,749	5,932	18	123	141	Work experience in a related occupation			
31-9092	Medical Assistants	1,572	2,583	101	29	130	Moderate-term on-the-job training			
	Dishwashers	3,360	3,504	14	113	127	Short-term on-the-job training			
	Police and Sheriff's Patrol Officers	2,060	2,743	68	53		Long-term on-the-job training			
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	3,324	3,716	39	79		Work experience in a related occupation			
35-3011	Bartenders	2,577	2,682	11	102	113	Short-term on-the-job training			

	Forty Occupations with the Largest Projected Net Jo	ween 2002 and 2012			
		Ave	rage		
SOC Code	Occupation	Emple 2002	yment 2012	Net Growth	Education/Training Requirement
29-1111	Registered Nurses	13,000	16,469	3,469	Associate degree
Ì	Personal and Home Care Aides	4,853	7,502	2,649	Short-term on-the-job training
41-2011	Cashiers	17,616	20,017	2,401	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	10,726	13,000	2,274	Short-term on-the-job training
21-1093	Social and Human Service Assistants	3,249	5,295	2,046	Moderate-term on-the-job training
31-1011	Home Health Aides	4,991	7,018	2,027	Short-term on-the-job training
11-1021	General and Operations Managers	11,288	12,918	1,630	Bachelor's degree plus work experience
35-3031	Waiters and Waitresses	10,121	11,707	1,586	Short-term on-the-job training
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	9,519	10,950	1,431	Work experience in a related occupation
41-2031	Retail Salespersons	19,240	20,669	1,429	Short-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	9,061	10,482	1,421	Short-term on-the-job training
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	10,582	11,821	1,239	Short-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	5,198	6,423	1,225	Short-term on-the-job training
39-9011	Child Care Workers	6,689	7,877	1,188	Short-term on-the-job training
35-2021	Food Preparation Workers	6,228	7,357	1,129	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	8,128	9,205	1,077	Short-term on-the-job training
53-3032	Truck Drivers, Heavy and Tractor-Trailer	11,195	12,256	1,061	Moderate-term on-the-job training
31-9092	Medical Assistants	1,572	2,583	1,011	Moderate-term on-the-job training
43-4051	Customer Service Representatives	7,173	8,133	960	Moderate-term on-the-job training
43-4171	Receptionists and Information Clerks	3,901	4,813	912	Short-term on-the-job training
41-4012	Sales Reps Wholesale & Manufacturing, Except Technical & Scientific Products	5,352	6,204	852	Moderate-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	4,840	5,578	738	Postsecondary vocational award
25-9041	Teacher Assistants	8,065	8,751	686	Short-term on-the-job training
53-3033	Truck Drivers, Light or Delivery Services	4,707	5,392	685	Short-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	2,060	2,743	683	Long-term on-the-job training
49-9042	Maintenance and Repair Workers, General	5,426	6,080	654	Moderate-term on-the-job training
25-3021	Self-Enrichment Education Teachers	960	1,539	579	Work experience in a related occupation
21-1023	Mental Health and Substance Abuse Social Workers	1,375	1,918	543	Master's degree
35-2014	Cooks, Restaurant	3,864	4,389	525	Long-term on-the-job training
33-2011	Fire Fighters	1,770	2,294	524	Long-term on-the-job training
21-1021	Child, Family, and School Social Workers	2,089	2,582	493	Bachelor's degree
29-2071	Medical Records and Health Information Technicians	886	1,370	484	Associate degree
11-9111	Medical and Health Services Managers	1,440	1,878	438	Bachelor's degree plus work experience
21-1015	Rehabilitation Counselors	1,200	1,629	429	Master's degree
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,037	3,466	429	Postsecondary vocational award
13-2011	Accountants and Auditors	3,659	4,080	421	Bachelor's degree
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2,080	2,478	398	Long-term on-the-job training
11-9151	Social and Community Service Managers	1,211	1,603	392	Bachelor's degree
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	3,324	3,716	392	Work experience in a related occupation
47-2031	Carpenters	10,233	10,604	371	Long-term on-the-job training

soc	Occupation	Ave: Emplo		Growth	Education/Training Requirement
Code		2002	2012	Rate	
31-9092	Medical Assistants	1,572	2,583	64.3%	Moderate-term on-the-job training
21-1093	Social and Human Service Assistants	3,249	5,295	63.0%	Moderate-term on-the-job training
25-3021	Self-Enrichment Education Teachers	960	1,539	60.3%	Work experience in a related occupation
29-1071	Physician Assistants	624	967	55.0%	Bachelor's degree
29-2071	Medical Records and Health Information Technicians	886	1,370	54.6%	Associate degree
39-9021	Personal and Home Care Aides	4,853	7,502	54.6%	Short-term on-the-job training
13-2052	Personal Financial Advisors	607	925	52.4%	Bachelor's degree
31-2021	Physical Therapist Assistants	317	480	51.4%	Associate degree
31-9011	Massage Therapists	403	596	47.9%	Postsecondary vocational award
29-2056	Veterinary Technologists and Technicians	378	541	43.1%	Associate degree
31-1011	Home Health Aides	4,991	7,018	40.6%	Short-term on-the-job training
29-1126	Respiratory Therapists	421	591	40.4%	Associate degree
29-2031	Cardiovascular Technologists and Technicians	213	299	40.4%	Associate degree
31-2022	Physical Therapist Aides	135	189	40.0%	Short-term on-the-job training
49-9095	Manufactured Building and Mobile Home Installers	184	257	39.7%	Moderate-term on-the-job training
21-1023	Mental Health and Substance Abuse Social Workers	1,375	1,918	39.5%	Master's degree
39-9031	Fitness Trainers and Aerobics Instructors	861	1,197	39.0%	Postsecondary vocational award
39-1021	First-Line Supervisors/Managers of Personal Service Workers	745	1,020	36.9%	Work experience in a related occupation
27-1026	Merchandise Displayers and Window Trimmers	334	457	36.8%	Moderate-term on-the-job training
21-1022	Medical and Public Health Social Workers	671	911	35.8%	Bachelor's degree
21-1015	Rehabilitation Counselors	1,200	1,629	35.8%	Master's degree
25-1126	Philosophy and Religion Teachers, Postsecondary	143	193	35.0%	Doctoral degree
39-9041	Residential Advisors	530	715	34.9%	Moderate-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	530	712	34.3%	Short-term on-the-job training
27-3091	Interpreters and Translators	178	239	34.3%	Long-term on-the-job training
39-3091	Amusement and Recreation Attendants	853	1,144	34.1%	Short-term on-the-job training
15-1061	Database Administrators	268	358	33.6%	Bachelor's degree
33-3051	Police and Sheriff's Patrol Officers	2,060	2,743	33.2%	Long-term on-the-job training
25-9031	Instructional Coordinators	308	410	33.1%	Master's degree
29-1123	Physical Therapists	1,047	1,392	33.0%	Master's degree
27-2021	Athletes and Sports Competitors	147	195	32.7%	Long-term on-the-job training
15-1081	Network Systems and Data Communications Analysts	371	492	32.6%	Bachelor's degree
25-1121	Art, Drama, and Music Teachers, Postsecondary	197	261	32.5%	Master's degree
19-3051	Motorboat Mechanics	528	699	32.4%	Long-term on-the-job training
1-9151	Social and Community Service Managers	1,211	1,603	32.4%	Bachelor's degree
43-4111	Interviewers, Except Eligibility and Loan	573	756	31.9%	Short-term on-the-job training
11-9011	Demonstrators and Product Promoters	594	782	31.6%	Moderate-term on-the-job training
9-1131	Veterinarians	358	471	31.6%	First Professional degree
9-3031	Clinical, Counseling, and School Psychologists	808	1,063	31.6%	Doctoral degree
9-4021	Biological Technicians	485	638	31.5%	Associate degree

Occupations with fewer than 100 jobs in 2002 were excluded from this list.

	Forty Occupations with the Largest Projected Net J		in Mair		een 2002 and 2012
SOC Code	Occupation	Emplo 2002	yment 2012	Net Decline	Education/Training Requirement
43-9022	Word Processors and Typists	1,540	839	-701	Moderate-term on-the-job training
43-6014	Secretaries, Except Legal, Medical, and Executive	9,420	8,848	-572	Moderate-term on-the-job training
51-2092	Team Assemblers	3,346	2,777	-569	Moderate-term on-the-job training
43-5081	Stock Clerks and Order Fillers	6,840	6,404	-436	Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	7,942	7,596	-346	Short-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	1,266	962	-304	Moderate-term on-the-job training
51-6031	Sewing Machine Operators	1,447	1,186	-261	Moderate-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	1,273	1,039	-234	Short-term on-the-job training
51-6042	Shoe Machine Operators and Tenders	374	145	-229	Moderate-term on-the-job training
43-2021	Telephone Operators	360	149	-211	Short-term on-the-job training
43-9021	Data Entry Keyers	1,306	1,100	-206	Moderate-term on-the-job training
41-9041	Telemarketers	3,670	3,473	-197	Short-term on-the-job training
53-7063	Machine Feeders and Offbearers	1,219	1,023	-196	Short-term on-the-job training
51-9198	HelpersProduction Workers	1,616	1,421	-195	Short-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,013	822	-191	Moderate-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	824	646	-178	Moderate-term on-the-job training
43-9011	Computer Operators	746	577	-169	Moderate-term on-the-job training
51-6051	Sewers, Hand	391	224	-167	Short-term on-the-job training
25-2022	Middle School Teachers, Except Special and Vocational Education	3,672	3,508	-164	Bachelor's degree
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	3,534	3,377	-157	Work experience in a related occupation
43-5052	Postal Service Mail Carriers	1,668	1,512	-156	Short-term on-the-job training
51-4041	Machinists	2,371	2,217	-154	Long-term on-the-job training
49-9044	Millwrights	749	597	-152	Long-term on-the-job training
17-3013	Mechanical Drafters	799	654	-145	Postsecondary vocational award
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	703	562	-141	Moderate-term on-the-job training
51-6041	Shoe and Leather Workers and Repairers	289	150	-139	Long-term on-the-job training
43-4131	Loan Interviewers and Clerks	648	518	-130	Short-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	830	713	-117	Long-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	880	768	-112	Moderate-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	703	597	-106	Moderate-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	727	628	-99	Short-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	3,457	3,360	-97	Short-term on-the-job training
51-4031	Cutting, Punching & Press Machine Setters, Operators & Tenders, Metal & Plastic	856	761	-95	Moderate-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	622	529	-93	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	539	450	-89	Moderate-term on-the-job training
51-6064	Textile Winding, Twisting & Drawing Out Machine Setters, Operators & Tenders	316	228	-88	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	1,781	1,694	-87	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	415	329	-86	Moderate-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	430	355	-75	Long-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	2,459	2,386	73	Long-term on-the-job training

1-604 Shoc Machine Operators and Tenders	SOC	Occupation		rage yment	Rate of	Education/Training Requirement
13-202 Telephone Operators 150e and Leather Workers and Repairers 289 150 484, 154 150e and Leather Workers and Repairers 289 150 484, 154 150e and Leather Workers and Repairers 1,540 309 224 427, 284 150e and Leather Workers and Repairers 1,540 309 224 427, 284 150e and Leather Workers and Repairers 1,540 309 224 427, 284 150e and Leather Workers and Developed Intaining 289 240, 284 241, 284 150e and Leather Workers and Developed Intaining 289 241, 284 241, 284 150e and Leather Workers and Developed Intaining 288 221 23, 385 Noderate-term on-the-job training 288 221 23, 385 Noderate-term on-the-job training 288 221 23, 385 Noderate-term on-the-job training 289 242, 278 Moderate-term on-the-job training 280	Code	Оссирации			Decline	Eddeation/11 anning Requirement
1.604 Shoe and Leather Workers and Repairers 1.504 Shoe and Leather Workers and Repairers 1.505 Swords Processors and Typists 1.506 Swors, Hand 1.606 Textife Winding, Twisting, and Drawing Out Machine Setters, Operators, and 1.606 Textife Winding, Twisting, and Drawing Out Machine Setters, Operators, and 1.206 902 2-21.9% Moderate-term on-the-job training 1.304 1.7042 Woodworking Machine Setters, Operators, and Tenders 228 221 2-23.9% Postsecondary vocational award 1.304 1.7042 Woodworking Machine Setters, Operators, and Tenders 300 224 2-1.7% Moderate-term on-the-job training 1.4063 Swaing Machine Setters, Operators, and Tenders 310 224 2-1.7% Moderate-term on-the-job training 1.4074 Swaing and Blending Machine Setters, Operators 415 329 2-0.7% Moderate-term on-the-job training 4.4064 2-1.6% Moderate-term on-the-job training 1.4074 Swaing and Blending Machine Setters, Operators & Tenders 312 2-0.7% Moderate-term on-the-job training 4.4064 2-1.7% Moderate-term on-the-job training 4.4074 3.4074	51-6042	Shoe Machine Operators and Tenders	374	145	-61.2%	Moderate-term on-the-job training
3-9022 Word Processors and Typiats	43-2021	Telephone Operators	360	149	-58.6%	Short-term on-the-job training
3-9022 Word Processors and Typiats			289	150	-4 8.1%	Long-term on-the-job training
Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders Ten			1,540	839	-45.5%	Moderate-term on-the-job training
Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders Ten	51-6051	Sewers, Hand	391	224	-42.7%	Short-term on-the-job training
13-3041 Travel Agents 288 221 -2.3.3% Postsecondary vocational award 23-9011 Computer Operators 276 577 -22.7% Moderate-term on-the-job training 276 2-2.7% Moderate-term on-the-job training 277 -22.7% Moderate-term on-the-job training 278 Moderate-term on-the-job training 279 -20.7% Moderate-term on-the-job training 279 -20.7% Moderate-term on-the-job training 279 -20.7% Moderate-term on-the-job training 270 Moderate-term on-the-job training 271 Moderate-term on-the-job training 271 Moderate-term on-the-job training 271 Moderate-term on-the-job training 272 Moderate-term on-the-job training 273 Moderate-term on-the-job training 274 Moderate-term on-the-job training 275 Moderate-term on-the-job training 276 Moderate-term on-the-job training 277 Moderate-term on-the-job training 277 Moderate-term on-the-job training 278 Moderate-term on-the-job training 279 Moderate-term on-the-job training 279 Moderate-term on-the-job training 270	51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and	316	228	-27.8%	Moderate-term on-the-job training
Computer Operators 746 577 -22.7% Moderate-term on-the-job training Saving Machine Setters, Operators, and Tenders 309 242 -21.7% Long-term on-the-job training Saving Machine Setters, Operators, and Tenders 415 329 -20.7% Moderate-term on-the-job training Moderate-term on-the-job train	51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	1,266	962	-24.0%	Moderate-term on-the-job training
13-063 Textile Knitting and Weaving Machine Setters, Operators, and Tenders 13-07-14 Sawing Machine Setters, Operators, and Tenders 13-07-14 Mixing and Blending Machine Setters, Operators & Tenders, 13-14-072 Media & Plastic 13-07-14 Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders 13-09-04 Millowrights 13-09-15 Hurnace, Kiln, Oven, Drier, and Kettle Operators and Tenders 13-09-16 Millowrights 13-09-17 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders 13-19-17 Cotabing, Painting, and Spraying Machine Setters, Operators, and Tenders 13-19-18 Cotabing, Painting, and Spraying Machine Setters, Operators, and Tenders 13-19-19 Cotabing, Painting, and Spraying Machine Setters, Operators, and Tenders 13-19-10 Crimical Equipment Operators and Tenders 13-19-10 Crimical Equipment Operators and Tenders 13-19-10 Grinders, Filers, and Sharpeners 13-19-16 Paper Goods Machine Setters, Operators, and Processing Machine Operators 13-19-19 Paper Goods Machine Setters, Operators, and Processing Machine Operators 13-19-19 Sewing Machine Setters, Operators 13-19-19 Sewing Machine Setters, Operators 13-19-19 Sewing Machine Operators 13-19-19 Sewing Machine Setters, Operators 14-07 Sewing Machine Setters, Operators 14-07 Sewing Machine Setters, Operators 14-07 Sewing Machine Setters, Operators 14-08 Sewing Machine Setters, Operators 14-09 Sewing Machine Setters 14-09 Sewing Machine Setters 14-09 Sewing	41-3041	Travel Agents	288	221	-23.3%	Postsecondary vocational award
Saving Machine Setters, Operators, and Tenders, Wood Saving Machine Setters, Operators, and Tenders Mixing and Blending Machine Setters, Operators, and Tenders Molding, Coremsking & Casting Machine Setters, Operators & Tenders, Molding, Coremsking & Casting Machine Setters, Operators & Tenders, Molding, Coremsking & Casting Machine Setters, Operators & Tenders, Molding, Coremsking & Casting Machine Setters, Operators & Tenders, Molding, Coremsking & Casting Machine Setters, Operators & Tenders, Molding, Coremsking & Casting Machine Setters, Operators & Tenders, Molding, Coremsking & Casting Machine Setters, Operators and Tenders 11-9011 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders 11-9021 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders 11-9021 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders 11-9021 Comercial Equipment Operators and Tenders 11-9021 Chemical Equipment Operators and Tenders 11-9031 Chemical Plant and System Operators 11-904 Chemical Plant and System Operators 11-905 Chemical Plant and System Operators 11-906 Paper Goods Machine Setters, Operators, and Tenders 11-907 Colinders, Filers, and Sharpeners 11-908 Paper Goods Machine Setters, Operators, and Tenders 11-909 Paper Goods Machine Setters, Operators, and Processing Machine Operators 11-909 Paper Goods Machine Setters, Operators, and Processing Machine Operators 11-909 Paper Goods Machine Setters, Operators 11-909 Paper Goods Machine Set	43-9011	Computer Operators	746	577	-22.7%	Moderate-term on-the-job training
Mixing and Blending Machine Setters, Operators, and Tenders Molding, Coremaking & Casting Machine Setters, Operators & Tenders, Metal & Plastic Parmace, Kilin, Oven, Drier, and Kettle Operators and Tenders Paper Metal & Plastic Paper Mederate-term on-the-job training Paper Metal & Plastic Paper Metal & Plastic Paper Metal & Plastic Paper Metal & Plastic Paper Mederate-term on-the-job training Paper Metal & Plastic	51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	309	242	-21.7%	Long-term on-the-job training
Molding, Coremaking & Casting Machine Setters, Operators & Tenders, Metal & Plastic Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders 167 20.5% Moderate-term on-the-job training 199044 Millwrights 749 597 20.3% Long-term on-the-job training 19904 Millwrights 749 597 20.3% Long-term on-the-job training 19902 Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders 237 189 20.3% Moderate-term on-the-job training 19912 Coating, Painting, and Spraying Machine Setters, Operators, and Tenders 280 224 20.0% Moderate-term on-the-job training 19912 Chemical Equipment Operators and Tenders 280 224 20.0% Moderate-term on-the-job training 19913 Chemical Plant and System Operators 131 105 19.8% Long-term on-the-job training 100 Griders, Filers, and Sharpeners 131 106 19.1% Moderate-term on-the-job training 100	51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	824	646	-21.6%	Moderate-term on-the-job training
Metal & Plastic Firance, Kilo, Oven, Drier, and Kettle Operators and Tenders Hornace, Kilo, Oven, Drier, and Kettle Operators and Tenders Hornace, Kilo, Oven, Drier, and Kettle Operators and Tenders Hornace, Kilo, Oven, Drier, and Kettle Operators and Tenders Hornace, Kilo, Oven, Drier, and Kettle Operators and Tenders Hornace, Kilo, Oven, Drier, and Kettle Operators and Tenders Hornace, Kilo, Oven, Drier, and Kettle Operators, and Tenders Hornace, Kilo, Oven, Drier, and Kettle Operators, and Tenders Hornace, Kilo, Oven, Drier, and Kettle Operators, and Tenders Hornace, All Hornace, All Hornace, All Hornace, All Hornace, Kilo, Oven, Drier, and Kettle Operators, and Tenders Hornace, All Hornace, Overlaining Hornace, Kilo, Oven, Drier, and Kettle Operators, and Tenders Hornace, All Hornace	51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	415	329	-20.7%	Moderate-term on-the-job training
Millwrights 749 597 -20.3% Long-term on-the-job training 749 597 -20.3% Moderate-term on-the-job training 749 597 -20.3% Long-term on-the-job training 749 597 -20.3% Moderate-term on-the-job 749 597 -20.3% Moderate-term 649 598 599 599 599 599 599 599 599 599 59	51-4072		312	248	-20.5%	Moderate-term on-the-job training
Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders Loan Interviewers and Clerks Coating, Painting, and Spraying Machine Setters, Operators, and Tenders Coating, Painting, and Spraying Machine Setters, Operators, and Tenders Chemical Equipment Operators and Tenders Chemical Equipment Operators and Tenders Chemical Plant and System Operators Chemical Plant and System Operators Chemical Plant and System Operators Tool Grinders, Filers, and Sharpeners Chemical Plant and System Operators Tool Grinders, Filers, and Sharpeners Chemical Plant and System Operators Tool Grinders, Filers, and Sharpeners Tool Grinders, Filers, and Filers Tool Grinders, Filers, Operators Tool Grinders, Filers, Operator	51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	210	167	-20.5%	Moderate-term on-the-job training
Loan Interviewers and Clerks Coating, Painting, and Spraying Machine Setters, Operators, and Tenders Coating, Painting, and Spraying Machine Setters, Operators, and Tenders Chemical Equipment Operators and Tenders Chemical Equipment Operators and Tenders Chemical Plant and System Operators Chemical Equipment Operators	49-9044	Millwrights	749	597	-20.3%	Long-term on-the-job training
Coating, Painting, and Spraying Machine Setters, Operators, and Tenders Chemical Equipment Operators and Tenders Chemical Equipment Operators and Tenders Chemical Plant and System Operators Chemical Plant and System Operators, and Processors, and Pro	51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	237	189	-20.3%	Moderate-term on-the-job training
Chemical Equipment Operators and Tenders Chemical Plant and System Operators Chemical Plant and System Operators, and Tenders Chemical Plant and System Operators and Tenders Chemical Plant and System Operators and Tenders Chemical Plant and System Operators on Th	43-4131	Loan Interviewers and Clerks	648	518	-20.1%	Short-term on-the-job training
Chemical Plant and System Operators Tool Grinders, Filers, and Sharpeners Tool Grinders, Filers, and Finishers Tool Grinders, Filers, and Sharpeners Tool Grinders, Filers, Tool Goods Tool Training Tool Tool Grinders Tool Grinders Tool Grinders, Filers, Tool Training Tool Tool Grinders Tool Grinders Tool Grinders Tool Tool Grinders Tool Tool Grinders Tool Tool Tool Training Tool Tool Tool Training Tool Training Tool Tool Training Tool Training Tool Tool Training Tool Training Tool Training Tool Tool Training Tool Training Tool Training Tool Tool Training Tool Training Tool Training Tool Training Training Tool Training Tool Training Tool Training Tool Training Tool Traini	51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	703	562	-20.1%	 Moderate-term on-the-job training
Tool Grinders, Filers, and Sharpeners 131 106 -19.196 Moderate-term on-the-job training 191916 Paper Goods Machine Setters, Operators, and Tenders 1,013 822 -18.996 Moderate-term on-the-job training 13-5053 Postal Service Mail Sorters, Processors, and Processing Machine Operators 1,273 1,039 -18.496 Short-term on-the-job training 13-5053 Mechanical Drafters 1,273 1,039 -18.496 Short-term on-the-job training 13-6031 Sewing Machine Operators 1,447 1,186 -18.096 Moderate-term on-the-job training 13-8021 Stationary Engineers and Boiler Operators 13-3045 2,777 -17.096 Moderate-term on-the-job training 13-7053 Machine Feeders and Offbearers 1,219 1,023 -16.196 Moderate-term on-the-job training 13-7063 Machine Feeders and Offbearers 1,219 1,023 -16.196 Moderate-term on-the-job training 13-7063 Machine Feeders and Offbearers 1,219 1,023 -16.196 Moderate-term on-the-job training 13-7063 Machine Feeders and Offbearers 1,219 1,023 -16.196 Moderate-term on-the-job training 13-7063 Machine Feeders and Offbearers 1,219 1,023 -16.196 Moderate-term on-the-job training 13-7061 Short-term on-the-job training 13-7061 Data Entry Keyers 1,306 1,100 -15.896 Moderate-term on-the-job training 13-7061 Structural Metal Fabricators and Fitters 13-707 15.196 Moderate-term on-the-job training 13-7081 Dindery Workers 14-2041 Structural Metal Fabricators and Fitters 13-7081 Cabinetmakers and Bench Carpenters 14-2041 Cabinetmakers and Bench Carpenters	51-9011	Chemical Equipment Operators and Tenders	280	224	-20.0%	Moderate-term on-the-job training
Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters, Processors, and Processing Machine Operators Postal Service Mail Sorters Operators, and Fostal Processors, and Processing Machine Operators Postal Service Mail Sorters Operators, and Postal Processors, and Processing Machine Setters, Operators, and Tenders Postal Service Mail Sorters Operators, and Processors, and Processo	51-8091	Chemical Plant and System Operators	131	105	-19.8%	Long-term on-the-job training
Postal Service Mail Sorters, Processors, and Processing Machine Operators 7-3013 Mechanical Drafters Sewing Machine Operators Sewing Machine Operators Stationary Engineers and Boiler Operators 1,447 1,186 1-8.021 Stationary Engineers and Boiler Operators 3,346 2,777 1-7.096 Moderate-term on-the-job training Mod	51-4194	Tool Grinders, Filers, and Sharpeners	131	106	-19.1%	Moderate-term on-the-job training
According to the content of the co	51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,013	822	-18.9%	Moderate-term on-the-job training
Sewing Machine Operators Stationary Engineers and Boiler Operators Stationary Engineers and Boiler Operators Stationary Engineers and Boiler Operators 3,346 3,777 1,7.0% Moderate-term on-the-job training 1,2091 Fiberglass Laminators and Fabricators 3,346 3,7063 Machine Feeders and Offbearers 3,346 3,7063 Machine Feeders and Offbearers 3,346 3,100 1,100 1,5.8% Moderate-term on-the-job training 3,30021 Boilermakers 1,219 1,023 1,100 1,5.8% Moderate-term on-the-job training 3,30021 Boilermakers 1,210 1,2	43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	1,273	1,039	-18.4%	Short-term on-the-job training
Stationary Engineers and Boiler Operators 1-2092 Team Assemblers Fiberglass Laminators and Fabricators Fiberglass Laminators Fibergla	17-3013	Mechanical Drafters	799	654	-18.1%	Postsecondary vocational award
Team Assemblers Fiberglass Laminators and Fabricators 539 450 -16.5% Moderate-term on-the-job training 53-7063 Machine Feeders and Offbearers 1,219 1,023 -16.1% Short-term on-the-job training 53-9021 Data Entry Keyers 1,306 1,100 -15.8% Moderate-term on-the-job training 53-9021 Boilermakers 121 102 -15.7% Long-term on-the-job training 53-4061 Eligibility Interviewers, Government Programs 12-2041 Structural Metal Fabricators and Fitters 539 450 -16.5% Moderate-term on-the-job training 53-9021 Moderate-term on-the-job training 53-4061 Eligibility Interviewers, Government Programs 539 450 -16.5% Moderate-term on-the-job training 54-2041 Moderate-term on-the-job training 559 -15.1% Moderate-term on-the-job training 559 -15.0% Moderate-term on-the-job training 559 -15.0% Moderate-term on-the-job training 559 -15.0% Moderate-term on-the-job training 550 -14.3% Short-term on-the-job training 550 -14.3% Short-term on-the-job training 550 -14.1% Short-term on-the-job training	51-6031	Sewing Machine Operators	1,447	1,186	-18.0%	Moderate-term on-the-job training
Fiberglass Laminators and Fabricators 539 450 -16.5% Moderate-term on-the-job training 53-7063 Machine Feeders and Offbearers 1,219 1,023 -16.1% Short-term on-the-job training 53-9021 Data Entry Keyers 1,306 1,100 -15.8% Moderate-term on-the-job training 57-2011 Boilermakers 539 450 -16.5% Moderate-term on-the-job training 58 Moderate-term on-the-job training 58 Moderate-term on-the-job training 59 -15.7% Long-term on-the-job training 59 -15.1% Moderate-term on-the-job training 59 -15.0% Moderate-term on-the-job training 59 -15.0% Moderate-term on-the-job training 50 -2011 Bindery Workers 50 -2021 Cabinetmakers and Bench Carpenters 51-7011 Cabinetmakers and Bench Carpenters 52 -2021 Coil Winders, Tapers, and Finishers 53 -2021 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders 539 -450 -16.5% Moderate-term on-the-job training 58 -15.0% Moderate-term on-the-job training 59 -15.0% Moderate-term on-the-job training 59 -15.0% Moderate-term on-the-job training 50 -14.1% Short-term on-the-job training 50 -14.1% Moderate-term on-the-job training 50 -14.1% Moderate-term on-the-job training 51 -2021 -14.1% Short-term on-the-job training 51 -2021 -14.1% Short-term on-the-job training 51 -2021 -14.1% Moderate-term on-the-job training 51 -2021 -	51-8021	Stationary Engineers and Boiler Operators	430	355	-17.4%	Long-term on-the-job training
Fiberglass Laminators and Fabricators Machine Feeders and Offbearers Data Entry Keyers Boilermakers Structural Metal Fabricators and Fitters 3-4061 Eligibility Interviewers, Government Programs Bid-2011 Bindery Workers Cabinetmakers and Bench Carpenters Cabinetmakers and Bench Carpenters Cabinetmakers and Finishers Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Prepress Technicians and Workers Announcers Separating, Filtering, Clarifying, Precipitating & Still Machine Setters Structural Metal Fabricators and Fitters 1,219 1,229 1,229 1,220	51-2092	Team Assemblers	3,346	2,777	-17.0%	Moderate-term on-the-job training
Machine Feeders and Offbearers 1,219 1,023 -16.1% Short-term on-the-job training 1,306 1,100 -15.8% Moderate-term on-the-job training 1,2011 Boilermakers 1,211 102 -15.7% Long-term on-the-job training 1,2041 Structural Metal Fabricators and Fitters 1,3406 Eligibility Interviewers, Government Programs 1,2041 Eligibility Interviewers, Government Programs 1,2041 Bindery Workers 1,2041 Cabinetmakers and Bench Carpenters 1,2041 Coil Winders, Tapers, and Finishers 1,2041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders 1,2041 Tenders 1,2041 Tenders 1,2042 Tenders 1,2042 Tenders 1,2043 Tenders 1,2043 Tenders 1,2042 Tenders 1,2043 Tenders 1,2043 Tenders 1,2045 Tenders 1,2046 Tenders 1,2046 Tenders 1,2047 Tenders 1,2048 Moderate-term on-the-job training 1,2041 Tenders 1,2041 Tenders 1,2041 Tenders 1,2041 Tenders 1,2042 Tenders 1,2043 Tenders 1,2043 Tenders 1,2044 Tenders 1,2045 Tenders 1,2046 Tenders 1,2047 Tenders 1,2047 Tenders 1,2048 Tenders 1,2049 Tenders 1,2049 Tenders 1,2040 Tenders 1,2040 Tenders 1,2041 T				450	-16.5%	Moderate-term on-the-job training
Data Entry Keyers 1,306 1,100 -15.8% Moderate-term on-the-job training 121 102 -15.7% Long-term on-the-job training 1-2041 Structural Metal Fabricators and Fitters 3-4061 Eligibility Interviewers, Government Programs 622 529 -15.0% Moderate-term on-the-job training 61-5011 Bindery Workers 622 6396 -14.3% Short-term on-the-job training 61-7011 Cabinetmakers and Bench Carpenters 61-2021 Coil Winders, Tapers, and Finishers 61-2021 Coil Winders, Tapers, and Finishers 61-2021 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders 61-5022 Prepress Technicians and Workers 7-3010 Announcers Separating, Filtering, Clarifying, Precipitating & Still Machine Setters 7-3010 Separating, Filtering, Clarifying, Precipitating & Still Machine Setters 7-3010 Announcers 1-306 1,100 -15.8% Moderate-term on-the-job training Moderate-term on-the-job training 1-15.0% Short-term on-the-job training 1-4.1% Short-term on-the-job training 1-4.1% Moderate-term on-the-job training 1-5022 1-15.0% Moderate-term on-the-job training			1,219	1,023	-16.1%	Short-term on-the-job training
Boilermakers 121 102 -15.7% Long-term on-the-job training 1-2041 Structural Metal Fabricators and Fitters 703 597 -15.1% Moderate-term on-the-job training 3-4061 Eligibility Interviewers, Government Programs 622 529 -15.0% Moderate-term on-the-job training 623 396 -14.3% Short-term on-the-job training 63-7011 Cabinetmakers and Bench Carpenters 63-7011 Coil Winders, Tapers, and Finishers 63-2021 Coil Winders, Tapers, and Finishers 642 122 -14.1% Short-term on-the-job training 63-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders 63-5022 Prepress Technicians and Workers 643 360 310 -13.9% Long-term on-the-job training 644 386 -14.0% Moderate-term on-the-job training 655 379 327 -13.7% Long-term on-the-job training 657 -15.1% Moderate-term on-the-job training 658 -14.0% Moderate-term on-the-job training 659 -15.0% Moderate-term on-the-job training 650 310 -13.9% Long-term on-the-job training 650 310 -13.9% Long-term on-the-job training 651 -15.002 Prepress Technicians and Workers 650 310 -13.9% Long-term on-the-job training 651 -15.002 Long-term on-the-job training 652 529 -15.0% Moderate-term on-the-job training 653 -14.0% Moderate-term on-the-job training 654 -14.0% Moderate-term on-the-job training 655 -14.0% Long-term on-the-job training 657 -15.1% Long-term on-the-job training 658 -14.0% Long-term on-the-job training 659 -15.0% Long-term on-the-job training 650 -15.0% Long-term on-the-job training 651 -15.0% Long-term on-the-job training						•
Structural Metal Fabricators and Fitters To 3 597 -15.1% Moderate-term on-the-job training Structural Metal Fabricators and Fitters Fig. 3-4061 Eligibility Interviewers, Government Programs Eligibility Interviewers Eligibility Interviewers, Government Programs Eligibility Interviewers Eligibilit			·			
Eligibility Interviewers, Government Programs 622 529 -15.0% Moderate-term on-the-job training 63-4061 Eligibility Interviewers, Government Programs 622 529 -15.0% Moderate-term on-the-job training 63-5011 Bindery Workers 623 396 -14.3% Short-term on-the-job training 63-7011 Cabinetmakers and Bench Carpenters 63-7011 Coil Winders, Tapers, and Finishers 63-7012 Coil Winders, Tapers, and Finishers 63-7013 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders 63-7014 Tenders 63-7015 Announcers 63-7016 Announcers 63-7017 Cabinetmakers and Bench Carpenters 64-7018 Long-term on-the-job training 63-7019 Long-term on-the-job training 63-7019 Announcers 64-7019 Long-term on-the-job training 63-7010 Announcers 64-7011 Cabinetmakers and Bench Carpenters 64-7011 Cabinetmakers and Bench Carpenters 64-7011 Cabinetmakers and Bench Carpenters 64-7012 Coil Winders, Tapers, and Finishers 64-7013 Coil Winders, Tapers, and Finishers 64-7014 Coil Winders, Tapers, and Finishers 64-7015 Coil Winders, Tapers, and Finishers 64-7016 Coil Winders, Tapers, and Finishers 64-7016 Coil Winders, Tapers, and Finishers 64-7017 Coil Winders, Tapers, and Finishers 64-7019 Coil Winders, Tapers, and Finishers 64-7019 Coil Winders, Tapers, and Finishers 64-7010 Coil Winders, Tapers,						•
Bindery Workers Cabinetmakers and Bench Carpenters Coil Winders, Tapers, and Finishers Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Prepress Technicians and Workers Announcers Separating, Filtering, Clarifying, Precipitating & Still Machine Setters 462 396 -14.3% Short-term on-the-job training Long-term on-the-job training Moderate-term on-the-job training 149 380 -14.0% Moderate-term on-the-job training 15-5022 Announcers Separating, Filtering, Clarifying, Precipitating & Still Machine Setters		l l				_
Cabinetmakers and Bench Carpenters Cabinetmakers and Bench Carpenters Coil Winders, Tapers, and Finishers Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders Cabinetmakers and Bench Carpenters 142 122 -14.1% Short-term on-the-job training Moderate-term on-the-job training 15-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders 16-5022 Prepress Technicians and Workers 17-3010 Announcers Separating Filtering Clarifying Precipitating & Still Machine Setters						
Coil Winders, Tapers, and Finishers Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders 1-9041 Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders 1-5022 Prepress Technicians and Workers 360 310 -13.9% Long-term on-the-job training 37-3010 Announcers 379 327 -13.7% Long-term on-the-job training						
Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders 7-3010 Announcers Separating Filtering Clarifying Precipitating & Still Machine Setters 449 386 -14.0% Moderate-term on-the-job training 360 310 -13.9% Long-term on-the-job training 37-3010 Long-term on-the-job training		•				
11-5022 Prepress Technicians and Workers 360 310 -13.9% Long-term on-the-job training 7-3010 Announcers 379 327 -13.7% Long-term on-the-job training Separating Filtering Clarifying Precipitating & Still Machine Setters	51-2021	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators,				
7-3010 Announcers 379 327 -13.7% Long-term on-the-job training	51-5022		360	310	-13.9%	Long-term on-the-job training
Separating Filtering Clarifying Precipitating & Still Machine Setters						•
	51-9012	Separating, Filtering, Clarifying, Precipitating & Still Machine Setters,	226	195		

Occupations with fewer than 100 jobs in 2002 were excluded from this list.

soc			Average Employment		nge in oyment	Average	Annual O	penings	2003	
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
	Total, All Occupations	661,107	729,245	68,138	10.3%	7,979	15,688	23,667	\$15.51	NA
11-0000	Management Occupations	41,992	47,286	5,294	12.6%	542	756	1,298	\$31.79	NA
11-1011	Chief Executives	2,257	2,520	263	11.7%	26	43	69	\$54.97	Bachelor's degree plus work experience
11-1021	General and Operations Managers	11,288	12,918	1,630	14.4%	163	213	376	\$33.70	Bachelor's degree plus work experience
11-1031	Legislators	364	398	34	9.3%	3	5	8	\$11.83	Bachelor's degree plus work experience
11-2011	Advertising and Promotions Managers	474	582	108	22.8%	11	9	20	\$26.08	Bachelor's degree plus work experience
11-2021	Marketing Managers	892	1,050	158	17.7%	16	17	33	\$34.29	Bachelor's degree plus work experience
11-2022	Sales Managers	1,214	1,472	258	21.3%	26	22	48	\$35.99	Bachelor's degree plus work experience
11-2031	Public Relations Managers	297	363	66	22.2%	7	5	12	\$29.23	Bachelor's degree plus work experience
11-3011	Administrative Services Managers	1,065	1,184	119	11.2%	12	21	33	\$25.09	Bachelor's degree plus work experience
11-3021	Computer and Information Systems Managers	1,155	1,386	231	20.0%	23	21	44	\$34.18	Bachelor's degree plus work experience
11-3031	Financial Managers	2,546	2,897	351	13.8%	35	37	72	\$31.88	Bachelor's degree plus work experience
11-3040	Human Resources Managers	918	1,025	107	11.7%	11	16	27	\$29.96	Bachelor's degree plus work experience
11-3051	Industrial Production Managers	736	682	-54	-7.3%	0	14	14	\$33.38	Bachelor's degree
11-3061	Purchasing Managers	538	548	10	1.9%	1	12	13	\$27.45	Bachelor's degree plus work experience
11-3071	Transportation, Storage, and Distribution Managers	494	557	63	12.8%	6	10	16	\$26.56	Work experience in a related occupation
11-9011	Farm, Ranch, and Other Agricultural Managers	494	611	117	23.7%	12	9	21	\$20.57	Bachelor's degree plus work experience
11-9012	Farmers and Ranchers	2,732	2,719	-13	-0.5%	0	16	16	NA	Long-term on-the-job training
11-9021	Construction Managers	1,571	1,636	65	4.1%	7	29	36	\$29.68	Bachelor's degree
11-9031	Education Administrators, Preschool and Child Care Center/Program	161	187	26	16.1%	3	4	7	\$17.68	Bachelor's degree plus work experience
11-9032	Education Administrators, Elementary and Secondary School	1,349	1,440	91	6.7%	9	34	43	\$60,320	Bachelor's degree plus work experience
11-9033	Education Administrators, Postsecondary	504	590	86	17.1%	9	13	22	\$30.25	Bachelor's degree plus work experience
11-9039	Education Administrators, All Other	134	155	21	15.7%	2	3	5	NA	Bachelor's degree plus work experience
11-9041	Engineering Managers	776	785	9	1.2%	1	16	17	\$41.32	Bachelor's degree plus work experience
11-9051	Food Service Managers	1,980	2,228	248	12.5%	25	32	57	\$18.51	Work experience in a related occupation
11-9061	Funeral Directors	190	222	32	16.8%	3	5	8	\$26.90	Associate degree
11-9081	Lodging Managers	613	640	27	4.4%	3	10	13	\$20.94	Work experience in a related occupation
11-9111	Medical and Health Services Managers	1,440	1,878	438	30.4%	44	28	72	\$31.93	Bachelor's degree plus work experience
11-9121	Natural Sciences Managers	212	231	19	9.0%	2	4	6	\$33.86	Bachelor's degree plus work experience
11-9131	Postmasters and Mail Superintendents	390	353	-37	-9.5%	0	7	7		Work experience in a related occupation
11-9141	Property, Real Estate, and Community Association Managers	736	871	135	18.3%	14	14	28	\$20.71	Bachelor's degree

SOC	Occupation		rage yment		nge in oyment	Average	Annual C	penings	2003	Education/Training Despisorant
Code	Оссирации	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
11-9151	Social and Community Service Managers	1,211	1,603	392	32.4%	39	23	62	\$21.37	Bachelor's degree
11-9199	Managers, All Other	3,259	3,553	294	9.0%	29	64	93	\$31.10	Work experience in a related occupation
13-0000	Business and Financial Operations Occupations	20,737	23,886	3,149	15.2%	316	372	688	\$22.66	NA
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	41	65	24	58.5%	2	1	3	\$14.13	Bachelor's degree plus work experience
13-1021	Purchasing Agents and Buyers, Farm Products	99	122	23	23.2%	2	3	5	\$18.54	Work experience in a related occupation
13-1022	Wholesale and Retail Buyers, Except Farm Products	1,032	1,086	54	5.2%	5	27	32	\$17.78	Work experience in a related occupation
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	800	850	50	6.3%	5	20	25	\$20.52	Work experience in a related occupation
13-1032	Insurance Appraisers, Auto Damage	50	55	5	10.0%	1	1	2	\$17.92	Long-term on-the-job training
13-1041	Compliance Officers, Except Agriculture, Construction, Health & Safety & Transportation	822	923	101	12.3%	10	19	29	\$20.30	Long-term on-the-job training
13-1051	Cost Estimators	609	652	43	7.1%	4	14	18	\$21.17	Work experience in a related occupation
13-1061	Emergency Management Specialists	60	81	21	35.0%	2	1	3	\$19.77	Work experience in a related occupation
13-1071	Employment, Recruitment, and Placement Specialists	605	643	38	6.3%	4	9	13	\$20.54	Bachelor's degree
13-1072	Compensation, Benefits, and Job Analysis Specialists	410	481	71	17.3%	7	6	13	\$20.39	Bachelor's degree
13-1073	Training and Development Specialists	1,180	1,427	247	20.9%	25	18	43	\$21.74	Bachelor's degree
13-1111	Management Analysts	1,760	2,048	288	16.4%	29	24	53	\$28.40	Bachelor's degree plus work experience
13-1121	Meeting and Convention Planners	128	156	28	21.9%	3	3	6	\$16.45	Bachelor's degree
13-1199	Business Operations Specialists, All Other	3,161	4,009	848	26.8%	85	54	139	\$23.85	Bachelor's degree
13-2011	Accountants and Auditors	3,659	4,080	421	11.5%	42	69	111	\$23.76	Bachelor's degree
13-2021	Appraisers and Assessors of Real Estate	437	503	66	15.1%	7	9	16	\$21.53	Postsecondary vocational award
13-2031	Budget Analysts	219	242	23	10.5%	2	4	6	\$24.35	Bachelor's degree
13-2051	Financial Analysts	345	411	66	19.1%	7	5	12	\$28.29	Bachelor's degree
13-2052	Personal Financial Advisors	607	925	318	52.4%	32	8	40	\$32.65	Bachelor's degree
13-2053	Insurance Underwriters	567	594	27	4.8%	3	10	13	\$22.07	Bachelor's degree
13-2061	Financial Examiners	65	64	-1	-1.5%	0	2	2	\$29.74	Bachelor's degree
13-2071	Loan Counselors	96	106	10	10.4%	1	2	3	\$18.57	Bachelor's degree
13-2072	Loan Officers	1,069	1,193	124	11.6%	12	17	29	\$23.93	Bachelor's degree
13-2081	Tax Examiners, Collectors, and Revenue Agents	372	407	35	9.4%	4	9	13	\$18.81	Bachelor's degree
13-2082	Tax Preparers	296	326	30	10.1%	3	5	8	\$16.90	Moderate-term on-the-job training
13-2099	Financial Specialists, All Other	474	523	49	10.3%	5	8	13	\$22.62	Bachelor's degree
15-0000	Computer and Mathematical Occupations	7,553	8,718	1,165	15.4%	121	99	220	\$24.92	NA
15-1011	Computer and Information Scientists, Research	18	24	6	33.3%	1	0	1	NA	Doctoral degree

soc	Occupation	Aver Employ	- 1		nge in oyment	Average	Annual C	penings	2003 Avg.	Education/Training Requirement
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Wage	Education/Training Requirement
15-1021	Computer Programmers	936	885	-51	-5.4%	0	22	22	\$25.01	Bachelor's degree
15-1031	Computer Software Engineers, Applications	1,233	1,407	174	14.1%	17	12	29	\$30.27	Bachelor's degree
15-1032	Computer Software Engineers, Systems Software	319	370	51	16.0%	5	3	8	\$33.21	Bachelor's degree
15-1041	Computer Support Specialists	1,677	1,899	222	13.2%	22	21	43	\$16.58	Associate degree
15-1051	Computer Systems Analysts	1,504	1,830	326	21.7%	33	17	50	\$27.37	Bachelor's degree
15-1061	Database Administrators	268	358	90	33.6%	9	3	12	\$25.37	Bachelor's degree
15-1071	Network and Computer Systems Administrators	798	949	151	18.9%	15	9	24	\$24.14	Bachelor's degree
15-1081	Network Systems and Data Communications Analysts	371	492	121	32.6%	12	4	16	\$26.12	Bachelor's degree
15-1099	Computer Specialists, All Other	227	293	66	29.1%	7	3	10	\$22.75	Associate degree
15-2031	Operations Research Analysts	89	91	2	2.2%	0	2	2	\$27.64	Master's degree
15-2041	Statisticians	50	54	4	8.0%	0	1	1	\$24.20	Master's degree
17-0000	Architecture and Engineering Occupations	9,858	9,943	85	0.9%	41	226	267	\$25.97	NA
17-1011	Architects, Except Landscape and Naval	461	540	79	17.1%	8	5	13	\$27.06	Bachelor's degree
17-1012	Landscape Architects	90	101	11	12.2%	1	1	2	NA	Bachelor's degree
17-1021	Cartographers and Photogrammetrists	86	94	8	9.3%	1	3	4	\$19.62	Bachelor's degree
17-1022	Surveyors	245	245	0	0.0%	o	8	8	\$18.78	Bachelor's degree
17-2041	Chemical Engineers	217	207	-10	-4.6%	0	7	7	\$33.69	Bachelor's degree
17-2051	Civil Engineers	1,134	1,135	1	0.1%	0	18	18	\$26.57	Bachelor's degree
17-2061	Computer Hardware Engineers	19	19	0	0.0%	0	o	0	\$31.36	Bachelor's degree
17-2071	Electrical Engineers	485	463	-22	-4.5%	0	10	10	\$31.63	Bachelor's degree
17-2072	Electronics Engineers, Except Computer	281	299	18	6.4%	2	6	8	\$34.40	Bachelor's degree
17-2081	Environmental Engineers	199	254	55	27.6%	6	3	9	\$30.99	Bachelor's degree
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	135	138	3	2.2%	0	3	3	\$25.05	Bachelor's degree
17-2112	Industrial Engineers	459	426	-33	-7.2%	0	11	11	\$29.52	Bachelor's degree
17-2121	Marine Engineers and Naval Architects	70	64	-6	-8.6%	0	3	3	\$31.30	Bachelor's degree
17-2131	Materials Engineers	40	40	0	0.0%	0	1	1	\$28.81	Bachelor's degree
17-2141	Mechanical Engineers	710	686	-24	-3.4%	0	19	19	\$30.11	Bachelor's degree
17-2161	Nuclear Engineers	216	241	25	11.6%	3	6	9	\$33.49	Bachelor's degree
17-2199	Engineers, All Other	625	600	-25	-4.0%	0	12	12	\$34.09	Bachelor's degree
17-3011	Architectural and Civil Drafters	579	563	-16	-2.8%	0	16	16	\$17.12	Postsecondary vocational award
17-3012	Electrical and Electronics Drafters	73	70	-3	-4.1%	0	2	2	\$19.25	Postsecondary vocational award

soc	Occupation	Ave Emplo	rage yment		nge in oyment	Average	Annual O	penings	2003	Education (Training Demission of
Code	оссирания	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
17-3013	Mechanical Drafters	799	654	-145	-18.1%	0	23	23	\$21.97	Postsecondary vocational award
17-3022	Civil Engineering Technicians	520	523	3	0.6%	0	11	11	\$18.68	Associate degree
17-3023	Electrical and Electronic Engineering Technicians	548	590	42	7.7%	4	12	16	\$21.33	Associate degree
17-3026	Industrial Engineering Technicians	256	228	-28	-10.9%	0	5	5	\$21.43	Associate degree
17-3027	Mechanical Engineering Technicians	71	67	-4	-5.6%	0	2	2	\$20.05	Associate degree
17-3031	Surveying and Mapping Technicians	327	397	70	21.4%	7	12	19	\$14.77	Moderate-term on-the-job training
17-3099	Drafters, Engineering, and Mapping Technicians, All Other	760	807	47	6.2%	5	18	23	\$25.39	Associate degree
19-0000	Life, Physical, and Social Science Occupations	4,769	5,678	909	19.1%	92	111	203	\$22.24	NA
19-1010	Agricultural and Food Scientists	153	176	23	15.0%	2	3	5	\$26.09	Bachelor's degree
19-1021	Biochemists and Biophysicists	41	44	3	7.3%	0	1	1	\$29.44	Doctoral degree
19-1022	Microbiologists	60	69	9	15.0%	1	2	3	\$20.85	Doctoral degree
19-1023	Zoologists and Wildlife Biologists	181	188	7	3.9%	1	6	7	\$22.78	Bachelor's degree
19-1031	Conservation Scientists	206	212	6	2.9%	1	6	7	\$19.35	Bachelor's degree
19-1032	Foresters	196	218	22	11.2%	2	6	8	\$19.52	Bachelor's degree
19-1041	Epidemiologists	14	17	3	21.4%	0	o	0	\$29.68	Master's degree
19-1042	Medical Scientists, Except Epidemiologists	75	96	21	28.0%	2	1	3	\$35.29	Doctoral degree
19-1099	Life Scientists, All Other	169	236	67	39.6%	7	3	10	NA	Bachelor's degree
19-2012	Physicists	44	52	8	18.2%	1	1	2	\$37.05	Doctoral degree
19-2021	Atmospheric and Space Scientists	33	37	4	12.1%	0	1	1	\$29.56	Bachelor's degree
19-2031	Chemists	158	153	-5	-3.2%	0	5	5	\$22.82	Bachelor's degree
19-2041	Environmental Scientists and Specialists, Including Health	544	648	104	19.1%	10	10	20	\$21.69	Master's degree
19-2042	Geoscientists, Except Hydrologists and Geographers	52	57	5	9.6%	1	1	2	\$23.48	Master's degree
19-2043	Hydrologists	58	75	17	29.3%	2	1	3	\$28.30	Master's degree
19-2099	Physical Scientists, All Other	53	55	2	3.8%	0	1	1	\$22.96	Bachelor's degree
19-3011	Economists	71	79	8	11.3%	1	2	3	\$25.52	Master's degree
19-3021	Market Research Analysts	224	251	27	12.1%	3	6	9	\$22.04	Master's degree
19-3022	Survey Researchers	32	37	5	15.6%	1	1	2	\$17.38	Master's degree
19-3031	Clinical, Counseling, and School Psychologists	808	1,063	255	31.6%	26	18	44	\$29.75	Doctoral degree
19-3032	Industrial-Organizational Psychologists	30	36	6	20.0%	1	1	2	NA	Master's degree
19-3051	Urban and Regional Planners	86	103	17	19.8%	2	3	5	\$23.55	Master's degree
19-3099	Social Scientists and Related Workers, All Other	188	200	12	6.4%	1	4	5		Master's degree

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soc	Occupation	Ave Emplo	~		nge in oyment	Average	Annual O	penings	2003 Avg.	Education/Training Requirement
Code		2002	2012	Net	Percent	Growth	Replace- ment	Total	Wage	Zademon 11 mning requirement
19-4011	Agricultural and Food Science Technicians	78	80	2	2.6%	0	2	2	\$14.36	Associate degree
19-4021	Biological Technicians	485	638	153	31.5%	15	8	23	NA	Associate degree
19-4031	Chemical Technicians	82	85	3	3.7%	0	2	2	\$15.66	Associate degree
19-4041	Geological and Petroleum Technicians	10	12	2	20.0%	0	0	0	NA	Associate degree
19-4091	Environmental Science and Protection Technicians, Including Health	200	259	59	29.5%	6	5	11	\$14.33	Associate degree
19-4093	Forest and Conservation Technicians	56	60	4	7.1%	0	1	1	\$13.75	Associate degree
19-4099	Life, Physical, and Social Science Technicians, All Other	235	252	17	7.2%	2	6	8	\$20.53	Associate degree
21-0000	Community and Social Services Occupations	15,246	20,223	4,977	32.6%	496	294	790	\$15.34	NA
21-1011	Substance Abuse and Behavioral Disorder Counselors	467	551	84	18.0%	8	11	19	\$16.23	Master's degree
21-1012	Educational, Vocational, and School Counselors	1,198	1,211	13	1.1%	1	27	28	\$19.68	Master's degree
21-1013	Marriage and Family Therapists	52	67	15	28.8%	2	1	3	\$20.04	Master's degree
21-1014	Mental Health Counselors	858	1,101	243	28.3%	24	20	44	\$15.95	Master's degree
21-1015	Rehabilitation Counselors	1,200	1,629	429	35.8%	43	27	70	\$12.20	Master's degree
21-1021	Child, Family, and School Social Workers	2,089	2,582	493	23.6%	49	36	85	\$16.61	Bachelor's degree
21-1022	Medical and Public Health Social Workers	671	911	240	35.8%	24	12	36	\$18.26	Bachelor's degree
21-1023	Mental Health and Substance Abuse Social Workers	1,375	1,918	543	39.5%	54	24	78	\$18.50	Master's degree
21-1091	Health Educators	358	442	84	23.5%	8	6	14	\$23.65	Master's degree
21-1092	Probation Officers and Correctional Treatment Specialists	432	481	49	11.3%	5	8	13	\$15.18	Bachelor's degree
21-1093	Social and Human Service Assistants	3,249	5,295	2,046	63.0%	205	57	262	\$11.42	Moderate-term on-the-job training
21-2011	Clergy	2,176	2,499	323	14.8%	32	45	77	\$20.91	First Professional degree
21-2021	Directors, Religious Activities and Education	230	283	53	23.0%	5	3	8	NA	Bachelor's degree
21-9099	Counselors, Social, and Religious Workers, All Other	891	1,253	362	40.6%	36	17	53	\$14.94	Bachelor's degree
23-0000	Legal Occupations	4,391	4,875	484	11.0%	50	51	101	\$32.39	NA
23-1011	Lawyers	2,727	3,026	299	11.0%	30	35	65	\$42.43	First Professional degree
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	138	138	0	0.0%	0	2	2	\$24.33	Bachelor's degree plus work experience
23-1022	Arbitrators, Mediators, and Conciliators	16	16	0	0.0%	0	0	0	\$19.67	Bachelor's degree plus work experience
23-1023	Judges, Magistrate Judges, and Magistrates	82	84	2	2.4%	0	1	1	\$43.54	Bachelor's degree plus work experience
23-2011	Paralegals and Legal Assistants	888	1,006	118	13.3%	12	7	19	\$16.76	Associate degree
23-2091	Court Reporters	145	177	32	22.1%	3	2	5	\$28.99	Postsecondary vocational award
23-2092	Law Clerks	74	70	-4	-5.4%	0	1	1	\$17.79	Bachelor's degree
23-2093	Title Examiners, Abstractors, and Searchers	132	116	-16	-12.1%	0	1	1	\$17.21	Moderate-term on-the-job training

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SOC	Occupation	Average Employment		Change in Employment		Average	Annual O	nnual Openings		
Code		2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
23-9099	Legal and Related Workers, All Other	189	242	53	28.0%	5	2	7	\$19.66	Bachelor's degree
25-0000	Education, Training, and Library Occupations	42,277	47,055	4,778	11.3%	500	902	1,402	\$16.63	NA
25-1011	Business Teachers, Postsecondary	352	441	89	25.3%	9	8	17	\$47,790	Master's degree
25-1021	Computer Science Teachers, Postsecondary	171	206	35	20.5%	4	4	8	\$47,050	Master's degree
25-1022	Mathematical Science Teachers, Postsecondary	232	288	56	24.1%	6	5	11	\$49,270	Master's degree
25-1032	Engineering Teachers, Postsecondary	133	170	37	27.8%	4	3	7	\$68,890	Doctoral degree
25-1042	Biological Science Teachers, Postsecondary	189	241	52	27.5%	5	4	9	\$57,330	Doctoral degree
25-1043	Forestry and Conservation Science Teachers, Postsecondary	42	52	10	23.8%	1	1	2	\$62,932	Doctoral degree
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	122	155	33	27.0%	3	3	6	\$63,100	Doctoral degree
25-1052	Chemistry Teachers, Postsecondary	78	101	23	29.5%	2	2	4	\$53,210	Doctoral degree
25-1053	Environmental Science Teachers, Postsecondary	18	24	6	33.3%	1	o	1	\$52,880	Doctoral degree
25-1054	Physics Teachers, Postsecondary	74	94	20	27.0%	2	2	4	\$61,860	Doctoral degree
25-1061	Anthropology and Archeology Teachers, Postsecondary	28	36	8	28.6%	1	1	2	\$62,460	Doctoral degree
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	42	54	12	28.6%	1	1	2	\$54,900	Doctoral degree
25-1063	Economics Teachers, Postsecondary	58	74	16	27.6%	2	1	3	\$63,440	Doctoral degree
25-1064	Geography Teachers, Postsecondary	22	27	5	22.7%	1	1	2	\$46,271	Doctoral degree
25-1065	Political Science Teachers, Postsecondary	85	111	26	30.6%	3	2	5	\$58,010	Doctoral degree
25-1066	Psychology Teachers, Postsecondary	116	1 <i>5</i> 0	34	29.3%	3	3	6	\$51,100	Doctoral degree
25-1067	Sociology Teachers, Postsecondary	65	83	18	27.7%	2	2	4	\$50,910	Doctoral degree
25-1071	Health Specialties Teachers, Postsecondary	445	558	113	25.4%	11	10	21	\$49,280	Master's degree
25-1072	Nursing Instructors and Teachers, Postsecondary	155	195	40	25.8%	4	4	8	\$50,160	Doctoral degree
25-1081	Education Teachers, Postsecondary	352	455	103	29.3%	10	8	18	\$46,240	Doctoral degree
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	30	37	7	23.3%	1	1	2	\$49,130	Doctoral degree
25-1112	Law Teachers, Postsecondary	42	55	13	31.0%	1	1	2	\$80,020	First Professional degree
25-1121	Art, Drama, and Music Teachers, Postsecondary	197	261	64	32.5%	6	4	10	\$52,630	Master's degree
25-1122	Communications Teachers, Postsecondary	56	71	15	26.8%	2	1	3	\$49,020	Doctoral degree
25-1123	English Language and Literature Teachers, Postsecondary	340	428	88	25.9%	9	8	17	\$46,490	Master's degree
25-1124	Foreign Language and Literature Teachers, Postsecondary	80	105	25	31.3%	3	2	5	\$47,790	Master's degree
25-1125	History Teachers, Postsecondary	89	115	26	29.2%	3	2	5	\$51,970	Doctoral degree
25-1126	Philosophy and Religion Teachers, Postsecondary	143	193	50	35.0%	5	3	8	\$46,050	Doctoral degree
25-1191	Graduate Teaching Assistants	861	1,088	227	26.4%	23	19	42	\$15,890	Bachelor's degree

		Average		Change in		A				
soc	Occupation	Emplo	yment	Empl	yment	Average	Annual O	penings	2003 Avg. Wage	Education/Training Requirement
Code		2002	2012	Net	Percent	Growth	Replace- ment	Total		
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	104	132	28	26.9%	3	2	5	\$46,870	Master's degree
25-1194	Vocational Education Teachers, Postsecondary	325	412	87	26.8%	9	7	16	\$18.17	Work experience in a related occupation
25-1199	Postsecondary Teachers, All Other	579	723	144	24.9%	14	13	27	\$40,520	Doctoral degree
25-2011	Preschool Teachers, Except Special Education	1,726	2,018	292	16.9%	29	21	50	\$10.75	Postsecondary vocational award
25-2012	Kindergarten Teachers, Except Special Education	1,183	1,331	148	12.5%	15	14	29	\$38,470	Bachelor's degree
25-2021	Elementary School Teachers, Except Special Education	6,444	6,499	55	0.9%	6	142	148	\$38,690	Bachelor's degree
25-2022	Middle School Teachers, Except Special and Vocational Education	3,672	3,508	-164	-4.5%	0	81	81	\$39,620	Bachelor's degree
25-2023	Vocational Education Teachers, Middle School	82	79	-3	-3.7%	0	2	2	\$40,000	Bachelor's degree plus work experience
25-2031	Secondary School Teachers, Except Special and Vocational Education	6,211	6,440	229	3.7%	23	175	198	\$40,430	Bachelor's degree
25-2032	Vocational Education Teachers, Secondary School	273	261	-12	-4.4%	0	8	8	\$42,920	Bachelor's degree plus work experience
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	1,393	1,599	206	14.8%	21	33	54	\$38,000	Bachelor's degree
25-2042	Special Education Teachers, Middle School	554	638	84	15.2%	8	13	21	\$37,460	Bachelor's degree
25-2043	Special Education Teachers, Secondary School	705	806	101	14.3%	10	17	27	\$40,280	Bachelor's degree
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	163	193	30	18.4%	3	2	5	\$15.94	Bachelor's degree
25-3021	Self-Enrichment Education Teachers	960	1,539	579	60.3%	58	12	70	\$14.80	Work experience in a related occupation
25-3999	Teachers, Primary, Secondary, and Adult, All Other	2,863	3,563	700	24.4%	70	35	105	\$22,060	Bachelor's degree
25-4010	Archivists, Curators, and Museum Technicians	169	194	25	14.8%	3	4	7	\$17.94	Master's degree
25-4021	Librarians	692	732	40	5.8%	4	17	21	\$19.50	Master's degree
25-4031	Library Technicians	878	996	118	13.4%	12	32	44	\$11.90	Short-term on-the-job training
25-9011	Audio-Visual Collections Specialists	27	29	2	7.4%	0	0	0	\$14.95	Moderate-term on-the-job training
25-9021	Farm and Home Management Advisors	82	83	1	1.2%	0	1	1	NA	Bachelor's degree
25-9031	Instructional Coordinators	308	410	102	33.1%	10	5	15	\$21.49	Master's degree
25-9041	Teacher Assistants	8,065	8,751	686	8.5%	69	156	225	\$23,260	Short-term on-the-job training
25-9199	Library, Museum, Training, and Other Education Workers, All Other	81	97	16	19.8%	2	1	3	\$14.37	Bachelor's degree
27-0000	Arts, Design, Entertainment, Sports, and Media Occupations	9,234	10,721	1,487	16.1%	156	177	333	\$16.06	NA
27-1011	Art Directors	71	83	12	16.9%	1	2	3	\$23.74	Bachelor's degree plus work experience
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	646	711	65	10.1%	7	14	21	\$23.66	Long-term on-the-job training
27-1014	Multi-Media Artists and Animators	332	337	5	1.5%	1	7	8		Bachelor's degree
27-1021	Commercial and Industrial Designers	118	108	-10	-8.5%	0	2	2	\$20.60	Bachelor's degree
27-1022	Fashion Designers	13	13	0	0.0%	0	o	0	\$29.52	Bachelor's degree
27-1023	Floral Designers	474	540	66	13.9%	7	6	13	\$11.51	Moderate-term on-the-job training

soc	Occupation	Average Employment		Change in Employment		Average	Annual C	penings	2003	Education/Truining Design
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
27-1024	Graphic Designers	605	711	106	17.5%	11	8	19	\$16.84	Bachelor's degree
27-1025	Interior Designers	187	216	29	15.5%	3	3	6	\$17.76	Bachelor's degree
27-1026	Merchandise Displayers and Window Trimmers	334	457	123	36.8%	12	5	17	\$8.66	Moderate-term on-the-job training
27-1027	Set and Exhibit Designers	50	50	0	0.0%	0	1	1	NA	Bachelor's degree
27-1099	Art and Design Workers, All Other	219	251	32	14.6%	3	4	7	\$14.92	Bachelor's degree
27-2011	Actors	73	85	12	16.4%	1	1	2	\$25,710	Long-term on-the-job training
27-2012	Producers and Directors	229	258	29	12.7%	3	3	6	\$34,340	Bachelor's degree plus work experience
27-2021	Athletes and Sports Competitors	147	195	48	32.7%	5	3	8	NA	Long-term on-the-job training
27-2022	Coaches and Scouts	1,025	1,191	166	16.2%	17	20	37	\$27,830	Long-term on-the-job training
27-2023	Umpires, Referees, and Other Sports Officials	93	137	44	47.3%	4	2	6	NA	Long-term on-the-job training
27-2041	Music Directors and Composers	216	252	36	16.7%	4	5	9	NA	Bachelor's degree plus work experience
27-2042	Musicians and Singers	600	740	140	23.3%	14	13	27	NA	Long-term on-the-job training
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	79	92	13	16.5%	1	1	2	NA	Long-term on-the-job training
27-3010	Announcers	379	327	-52	-13.7%	0	10	10	\$15.52	Long-term on-the-job training
27-3020	News Analysts, Reporters and Correspondents	341	378	37	10.9%	4	8	12	\$15.37	Bachelor's degree plus work experience
27-3031	Public Relations Specialists	465	609	144	31.0%	14	7	21	\$19.70	Bachelor's degree
27-3041	Editors	532	601	69	13.0%	7	13	20	\$18.79	Bachelor's degree
27-3042	Technical Writers	142	170	28	19.7%	3	4	7	\$21.28	Bachelor's degree
27-3043	Writers and Authors	601	717	116	19.3%	12	10	22	\$17.86	Bachelor's degree
27-3091	Interpreters and Translators	178	239	61	34.3%	6	2	8	\$18.68	Long-term on-the-job training
27-3099	Media and Communication Workers, All Other	161	180	19	11.8%	2	2	4	NA	Long-term on-the-job training
27-4011	Audio and Video Equipment Technicians	52	65	13	25.0%	1	1	2	\$13.18	Long-term on-the-job training
27-4012	Broadcast Technicians	163	176	13	8.0%	1	4	5	\$13.15	Associate degree
27-4014	Sound Engineering Technicians	30	34	4	13.3%	0	1	1	\$17.14	Postsecondary vocational award
27-4021	Photographers	396	464	68	17.2%	7	8	15	\$11.92	Long-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	95	102	7	7.4%	1	2	3	\$11.46	Moderate-term on-the-job training
27-4032	Film and Video Editors	118	149	31	26.3%	3	3	6	\$13.20	Bachelor's degree
27-4099	Media and Communication Equipment Workers, All Other	40	53	13	32.5%	1	1	2	\$18.03	Moderate-term on-the-job training
29-0000	Healthcare Practitioners and Technical Occupations	34,142	43,121	8,979	26.3%	899	638	1,537	\$26.25	NA
29-1011	Chiropractors	279	355	7 6	27.2%	8	5	13	\$24.63	First Professional degree
29-1020	Dentists	607	599	-8	-1.3%	0	10	10	\$50.98	First Professional degree

soc	Occupation	Aver Emplo	- 1	Change in Employment		Average Annual Openings			2003	Education/Training Requirement
Code	оссирации	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education It aiming Requirement
29-1031	Dietitians and Nutritionists	252	310	58	23.0%	6	7	13	\$19.56	Bachelor's degree
29-1041	Optometrists	171	222	51	29.8%	5	5	10	\$38.29	First Professional degree
29-1051	Pharmacists	918	1,177	259	28.2%	26	18	44	\$39.78	First Professional degree
29-1061	Anesthesiologists	124	152	28	22.6%	3	2	5	\$93.51	First Professional degree
29-1062	Family and General Practitioners	825	1,012	187	22.7%	19	11	30	\$56.86	First Professional degree
29-1063	Internists, General	291	355	64	22.0%	6	4	10	\$66.46	First Professional degree
29-1064	Obstetricians and Gynecologists	134	165	31	23.1%	3	2	5	\$88.55	First Professional degree
29-1065	Pediatricians, General	142	175	33	23.2%	3	2	5	\$63.40	First Professional degree
29-1066	Psychiatrists	198	242	44	22.2%	4	3	7	\$74.16	First Professional degree
29-1067	Surgeons	450	556	106	23.6%	11	6	17	\$95.47	First Professional degree
29-1069	Physicians and Surgeons, All Other	1,033	1,243	210	20.3%	21	14	35	\$59.55	First Professional degree
29-1071	Physician Assistants	624	967	343	55.0%	34	10	44	\$37.70	Bachelor's degree
9-1081	Podiatrists	130	164	34	26.2%	3	3	6	\$38.36	First Professional degree
29-1111	Registered Nurses	13,000	16,469	3,469	26.7%	347	272	619	\$24.06	Associate degree
29-1121	Audiologists	42	54	12	28.6%	1	1	2	\$25.10	Master's degree
29-1122	Occupational Therapists	561	709	148	26.4%	15	8	23	\$24.36	Bachelor's degree
29-1123	Physical Therapists	1,047	1,392	345	33.0%	35	10	45	\$26.17	Master's degree
29-1124	Radiation Therapists	58	76	18	31.0%	2	1	3	\$24.33	Associate degree
29-1125	Recreational Therapists	185	202	17	9.2%	2	4	6	\$14.64	Bachelor's degree
29-1126	Respiratory Therapists	421	591	170	40.4%	17	14	31	\$20.56	Associate degree
29-1127	Speech-Language Pathologists	715	871	156	21.8%	16	18	34	\$22.03	Master's degree
29-1131	Veterinarians	358	471	113	31.6%	11	9	20	\$29.75	First Professional degree
29-1199	Health Diagnosing and Treating Practitioners, All Other	111	139	28	25.2%	3	2	5	\$53.38	Bachelor's degree
29-2011	Medical and Clinical Laboratory Technologists	732	942	210	28.7%	21	20	41	\$20.13	Bachelor's degree
29-2012	Medical and Clinical Laboratory Technicians	588	727	139	23.6%	14	16	30	\$14.77	Associate degree
29-2021	Dental Hygienists	993	1,297	304	30.6%	30	9	39	\$24.72	Associate degree
29-2031	Cardiovascular Technologists and Technicians	213	299	86	40.4%	9	4	13	\$19.82	Associate degree
29-2032	Diagnostic Medical Sonographers	152	193	41	27.0%	4	3	7	\$25.85	Associate degree
29-2033	Nuclear Medicine Technologists	67	83	16	23.9%	2	1	3	\$24.96	Associate degree
29-2034	Radiologic Technologists and Technicians	824	1,015	191	23.2%	19	15	34	\$21.05	Associate degree
29-2041	Emergency Medical Technicians and Paramedics	1,512	1,830	318	21.0%	32	17	49	\$11.38	Postsecondary vocational award

soc	Occupation	Average Employment		Change in Employment		Average Annual Openings			2003	Education/Turining Description
Code		2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
29-2051	Dietetic Technicians	162	201	39	24.1%	4	2	6	\$12.26	Moderate-term on-the-job training
29-2052	Pharmacy Technicians	1,051	1,353	302	28.7%	30	14	44	\$10.89	Moderate-term on-the-job training
29-2053	Psychiatric Technicians	309	350	41	13.3%	4	4	8	\$11.01	Moderate-term on-the-job training
29-2054	Respiratory Therapy Technicians	56	79	23	41.1%	2	1	3	\$18.38	Postsecondary vocational award
29-2055	Surgical Technologists	347	454	107	30.8%	11	5	16	\$15.81	Postsecondary vocational award
29-2056	Veterinary Technologists and Technicians	378	541	163	43.1%	16	5	21	\$11.85	Associate degree
29-2061	Licensed Practical and Licensed Vocational Nurses	2,294	2,625	331	14.4%	33	50	83	\$15.32	Postsecondary vocational award
29-2071	Medical Records and Health Information Technicians	886	1,370	484	54.6%	48	13	61	\$11.29	Associate degree
29-2081	Opticians, Dispensing	155	194	39	25.2%	4	3	7	\$14.85	Long-term on-the-job training
29-2091	Orthotists and Prosthetists	27	29	2	7.4%	0	0	0	\$23.05	Bachelor's degree
29-9010	Occupational Health and Safety Specialists and Technicians	252	285	33	13.1%	3	6	9	\$23.92	Bachelor's degree
29-9091	Athletic Trainers	52	67	15	28.8%	2	1	3	\$33,140	Bachelor's degree
29-9199	Health Professionals and Technicians, All Other	416	519	103	24.8%	10	8	18	\$21.77	Postsecondary vocational award
31-0000	Healthcare Support Occupations	20,002	25,826	5,824	29.1%	582	301	883	\$10.58	NA
31-1011	Home Health Aides	4,991	7,018	2,027	40.6%	203	65	268	\$9.14	Short-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	9,061	10,482	1,421	15.7%	142	119	261	\$9.97	Short-term on-the-job training
31-1013	Psychiatric Aides	468	528	60	12.8%	6	6	12	\$12.03	Short-term on-the-job training
31-2011	Occupational Therapist Assistants	93	121	28	30.1%	3	1	4	\$17.02	Associate degree
31-2012	Occupational Therapist Aides	72	103	31	43.1%	3	1	4	\$12.29	Short-term on-the-job training
31-2021	Physical Therapist Assistants	317	480	163	51.4%	16	5	21	\$17.79	Associate degree
31-2022	Physical Therapist Aides	135	189	54	40.0%	5	2	7	\$11.46	Short-term on-the-job training
31-9011	Massage Therapists	403	596	193	47.9%	19	8	27	\$16.76	Postsecondary vocational award
31-9091	Dental Assistants	948	1,238	290	30.6%	29	27	56	\$12.70	Moderate-term on-the-job training
31-9092	Medical Assistants	1,572	2,583	1,011	64.3%	101	29	130	\$12.42	Moderate-term on-the-job training
31-9093	Medical Equipment Preparers	190	225	35	18.4%	4	4	8	\$11.61	Short-term on-the-job training
31-9094	Medical Transcriptionists	680	853	173	25.4%	17	13	30	\$13.52	Postsecondary vocational award
31-9095	Pharmacy Aides	82	90	8	9.8%	1	2	3	\$8.19	Short-term on-the-job training
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	530	712	182	34.3%	18	10	28	\$10.17	Short-term on-the-job training
31-9099	Healthcare Support Workers, All Other	460	608	148	32.2%	15	9	24		Short-term on-the-job training
33-0000	Protective Service Occupations	10,763	12,933	2,170	20.2%	217	305	522	\$13.78	
33-1011	First-Line Supervisors/Managers of Correctional Officers	65	76	11	16.9%	1	2	3	\$19.36	Work experience in a related occupation

soc	Occupation		rage yment		nge in oyment	Average	Annual C	penings	2003 Avg.	Education/Training Requirement
Code		2002	2012	Net	Percent	Growth	Replace- ment	Total	Wage	Education Framing Requirement
33-1012	First-Line Supervisors/Managers of Police and Detectives	423	513	90	21.3%	9	14	23	\$24.00	Work experience in a related occupation
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	159	201	42	26.4%	4	7	11	\$19.66	Work experience in a related occupation
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	252	260	8	3.2%	1	6	7	\$17.70	Work experience in a related occupation
33-2011	Fire Fighters	1,770	2,294	524	29.6%	52	51	103	\$13.62	Long-term on-the-job training
33-2021	Fire Inspectors and Investigators	58	61	3	5.2%	0	2	2	\$16.07	Work experience in a related occupation
33-2022	Forest Fire Inspectors and Prevention Specialists	91	90	-1	-1.1%	0	3	3	\$18.57	Work experience in a related occupation
33-3011	Bailiffs	47	56	9	19.1%	1	1	2	NA	Moderate-term on-the-job training
33-3012	Correctional Officers and Jailers	1,379	1,649	270	19.6%	27	29	56	\$12.53	Moderate-term on-the-job training
33-3021	Detectives and Criminal Investigators	332	418	86	25.9%	9	9	18	\$21.69	Work experience in a related occupation
33-3031	Fish and Game Wardens	129	131	2	1.6%	0	3	3	\$17.81	Long-term on-the-job training
33-3041	Parking Enforcement Workers	47	56	9	19.1%	1	1	2	\$12.25	Short-term on-the-job training
33-3051	Police and Sheriff's Patrol Officers	2,060	2,743	683	33.2%	68	53	121	\$16.10	Long-term on-the-job training
33-9011	Animal Control Workers	76	91	15	19.7%	2	5	7	\$9.23	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	161	188	27	16.8%	3	3	6	\$17.21	Work experience in a related occupation
33-9032	Security Guards	2,629	2,831	202	7.7%	20	57	77	\$10.10	Short-term on-the-job training
33-9091	Crossing Guards	403	504	101	25.1%	10	13	23	\$8.28	Short-term on-the-job training
33-9099	Protective Service Workers, All Other	658	741	83	12.6%	8	46	54	\$12.21	Short-term on-the-job training
35-0000	Food Preparation and Serving Related Occupations	53,541	60,861	7,320	13.7%	739	2,108	2,847	\$8.70	NA.
35-1011	Chefs and Head Cooks	970	1,120	150	15.5%	15	29	44	\$17.74	Work experience in a related occupation
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	3,324	3,716	392	11.8%	39	79	118	\$11.45	Work experience in a related occupation
35-2011	Cooks, Fast Food	2,051	2,143	92	4.5%	9	64	73	\$7.90	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	2,331	2,277	-54	-2.3%	0	72	72	\$10.38	Moderate-term on-the-job training
35-2013	Cooks, Private Household	10	10	0	0.0%	0	o	0	NA	Long-term on-the-job training
35-2014	Cooks, Restaurant	3,864	4,389	525	13.6%	53	120	173	\$9.73	Long-term on-the-job training
35-2015	Cooks, Short Order	1,807	1,932	125	6.9%	13	56	69	\$8.50	Short-term on-the-job training
35-2021	Food Preparation Workers	6,228	7,357	1,129	18.1%	113	220	333		Short-term on-the-job training
35-3011	Bartenders	2,577	2,682	105	4.1%	11	102	113	\$8.64	Short-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	10,726	13,000	2,274	21.2%	227	465	692	\$7.90	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,983	2,330	347	17.5%	35	129	164		Short-term on-the-job training
35-3031	Waiters and Waitresses	10,121	11,707	1,586	15.7%	159	521	680		Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	1,092	1,165	73	6.7%	7	37	44	\$8.34	Short-term on-the-job training

SOC	Occupation	Ave Emplo	- 1		nge in oyment	Average	Annual C	penings	2003	
Code	Оссирации	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	1,495	1,690	195	13.0%	20	50	70	\$7.51	Short-term on-the-job training
35-9021	Dishwashers	3,360	3,504	144	4.3%	14	113	127	\$7.45	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,513	1,741	228	15.1%	23	48	71	\$7.98	Short-term on-the-job training
35-9099	Food Preparation and Serving Related Workers, All Other	89	98	9	10.1%	1	3	4	\$9.18	Short-term on-the-job training
37-0000	Building and Grounds Cleaning and Maintenance Occupations	26,320	30,189	3,869	14.7%	389	530	919	\$10.19	NA
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	984	1,112	128	13.0%	13	23	36	\$14.16	Work experience in a related occupation
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service & Groundskeeping Workers	708	868	160	22.6%	16	7	23	\$16.10	Work experience in a related occupation
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	10,582	11,821	1,239	11.7%	124	201	325	\$10.29	Short-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	8,128	9,205	1,077	13.3%	108	171	279	\$8.57	Short-term on-the-job training
37-2021	Pest Control Workers	120	135	15	12.5%	2	2	4	\$13.26	Moderate-term on-the-job training
37-3011	Landscaping and Groundskeeping Workers	5,198	6,423	1,225	23.6%	123	113	236	\$9.94	Short-term on-the-job training
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	116	106	-10	-8.6%	0	3	3	NA	Moderate-term on-the-job training
37-3013	Tree Trimmers and Pruners	341	355	14	4.1%	1	7	8	\$12.81	Short-term on-the-job training
37-9099	Building and Grounds Cleaning and Maintenance Workers, All Other	143	164	21	14.7%	2	3	5	\$12.69	Short-term on-the-job training
39-0000	Personal Care and Service Occupations	21,423	27,624	6,201	28.9%	625	495	1,120	\$9.81	NA
39-1021	First-Line Supervisors/Managers of Personal Service Workers	745	1,020	275	36.9%	28	19	47	\$13.67	Work experience in a related occupation
39-2011	Animal Trainers	67	60	-7	-10.4%	0	1	1	NA	Moderate-term on-the-job training
39-2021	Nonfarm Animal Caretakers	359	461	102	28.4%	10	9	19	\$8.48	Short-term on-the-job training
39-3012	Gaming and Sports Book Writers and Runners	123	142	19	15.4%	2	4	6	\$7.70	Postsecondary vocational award
39-3021	Motion Picture Projectionists	93	105	12	12.9%	1	5	6	\$8.04	Short-term on-the-job training
39-3031	Ushers, Lobby Attendants, and Ticket Takers	199	256	57	28.6%	6	11	17	\$7.71	Short-term on-the-job training
39-3091	Amusement and Recreation Attendants	853	1,144	291	34.1%	29	25	54	\$8.66	Short-term on-the-job training
39-3199	Gaming Workers, All Other .	134	149	15	11.2%	2	4	6	NA	Moderate-term on-the-job training
39-4021	Funeral Attendants	157	199	42	26.8%	4	3	7	\$10.37	Short-term on-the-job training
39-5011	Barbers	357	382	25	7.0%	3	10	13	NA	Postsecondary vocational award
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,037	3,466	429	14.1%	43	59	102	\$10.63	Postsecondary vocational award
39-5092	Manicurists and Pedicurists	19	23	4	21.1%	0	0	0	\$9.60	Postsecondary vocational award
39-5093	Shampooers	55	62	7	12.7%	1	1	2	NA	Short-term on-the-job training
39-5094	Skin Care Specialists	104	124	20	19.2%	2	2	4		Postsecondary vocational award
39-6011	Baggage Porters and Bellhops	123	128	5	4.1%	1	3	4		Short-term on-the-job training
39-6012	Concierges	26	31	5	19.2%	1	1	2		Moderate-term on-the-job training

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soc	Occupation	Ave Emplo	~		nge in oyment	Average	Annual O	penings	2003 Avg.	Education/Training Requirement
Code		2002	2012	Net	Percent	Growth	Replace- ment	Total	Wage	Education I Lanning Requirement
39-6021	Tour Guides and Escorts	254	333	79	31.1%	8	7	15	\$8.32	Moderate-term on-the-job training
39-9011	Child Care Workers	6,689	7,877	1,188	17.8%	119	182	301	\$8.76	Short-term on-the-job training
39-9021	Personal and Home Care Aides	4,853	7,502	2,649	54.6%	265	78	343	\$8.62	Short-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	861	1,197	336	39.0%	34	20	54	\$11.74	Postsecondary vocational award
39-9032	Recreation Workers	1,081	1,376	295	27.3%	30	25	55	\$10.06	Bachelor's degree
39-9041	Residential Advisors	530	715	185	34.9%	19	11	30	\$10.45	Moderate-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	523	660	137	26.2%	14	11	25	\$15.98	Short-term on-the-job training
41-0000	Sales and Related Occupations	71,678	79,860	8,182	11.4%	844	2,317	3,161	\$12.98	NA
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	9,519	10,950	1,431	15.0%	143	171	314	\$15.77	Work experience in a related occupation
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	1,791	2,101	310	17.3%	31	34	65	\$24.47	Work experience in a related occupation
41-2011	Cashiers	17,616	20,017	2,401	13.6%	240	857	1,097	\$8.09	Short-term on-the-job training
41-2021	Counter and Rental Clerks	1,610	1,946	336	20.9%	34	62	96	\$9.61	Short-term on-the-job training
41-2022	Parts Salespersons	1,689	1,703	14	0.8%	1	48	49	\$12.20	Moderate-term on-the-job training
41-2031	Retail Salespersons	19,240	20,669	1,429	7.4%	143	699	842	\$10.54	Short-term on-the-job training
41-3011	Advertising Sales Agents	684	775	91	13.3%	9	13	22	\$18.45	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	3,200	3,291	91	2.8%	9	77	86	\$23.05	Bachelor's degree
41-3031	Securities, Commodities, and Financial Services Sales Agents	614	786	172	28.0%	17	7	24	\$39.07	Bachelor's degree
41-3041	Travel Agents	288	221	-6 7	-23.3%	0	7	7	\$13.94	Postsecondary vocational award
41-4011	Sales Representatives, Wholesale & Manufacturing, Technical & Scientific Products	1,383	1,614	231	16.7%	23	36	59	\$30.27	Moderate-term on-the-job training
41-4012	Sales Reps, Wholesale and Manufacturing, Except Technical & Scientific Products	5,352	6,204	852	15.9%	85	141	226	\$22.15	Moderate-term on-the-job training
41-9011	Demonstrators and Product Promoters	594	782	188	31.6%	19	13	32	\$10.97	Moderate-term on-the-job training
41-9012	Models	17	21	4	23.5%	0	0	0	NA	Moderate-term on-the-job training
41-9021	Real Estate Brokers	931	1,097	166	17.8%	17	19	36	\$32.48	Work experience in a related occupation
41-9022	Real Estate Sales Agents	462	565	103	22.3%	10	9	19	\$15.53	Postsecondary vocational award
41-9031	Sales Engineers	162	185	23	14.2%	2	5	7	\$30.30	Bachelor's degree
41-9041	Telemarketers	3,670	3,473	-197	-5.4%	0	60	60	\$12.63	Short-term on-the-job training
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	757	897	140	18.5%	14	18	32	\$13.57	Short-term on-the-job training
41-9099	Sales and Related Workers, All Other	2,073	2,532	459	22.1%	46	40	86	\$18.82	Moderate-term on-the-job training
43-0000	Office and Administrative Support Occupations	98,976	100,225	1,249	1.3%	477	2,292	2,769	\$12.70	NA
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	5,749	5,932	183	3.2%	18	123	141	\$17.31	Work experience in a related occupation
43-2011	Switchboard Operators, Including Answering Service	1,044	988	-56	-5.4%	0	27	27	\$10.62	Short-term on-the-job training

soc	Occupation	Ave Emplo	~ 1		nge in oyment	Average	Annual C	penings	2003	Education/Training Designment
Code	оссирания	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
43-2099	Communications Equipment Operators, All Other	12	10	-2	-16.7%	0	0	0	NA	Short-term on-the-job training
43-3011	Bill and Account Collectors	2,012	2,374	362	18.0%	36	38	74	\$13.22	Short-term on-the-job training
43-3021	Billing and Posting Clerks and Machine Operators	2,514	2,653	139	5.5%	14	43	57	\$11.78	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	9,530	9,581	51	0.5%	5	179	184	\$13.09	Moderate-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	959	937	-22	-2.3%	0	25	25	\$13.13	Moderate-term on-the-job training
43-3061	Procurement Clerks	225	208	-17	-7.6%	0	6	6	\$14.63	Short-term on-the-job training
43-3071	Tellers	2,825	3,027	202	7.2%	20	139	159	\$9.62	Short-term on-the-job training
43-4011	Brokerage Clerks	128	120	-8	-6.3%	0	2	2	\$13.99	Moderate-term on-the-job training
43-4021	Correspondence Clerks	102	92	-10	-9.8%	0	3	3	\$12.56	Short-term on-the-job training
43-4031	Court, Municipal, and License Clerks	854	958	104	12.2%	10	19	29	\$12.99	Short-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	98	95	-3	-3.1%	0	2	2	\$12.30	Short-term on-the-job training
43-4051	Customer Service Representatives	7,173	8,133	960	13.4%	96	107	203	\$13.17	Moderate-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	622	529	-93	-15.0%	0	17	17	\$14.01	Moderate-term on-the-job training
43-4071	File Clerks	711	686	-25	-3.5%	0	21	21	\$9.20	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	1,418	1,699	281	19.8%	28	64	92	\$8.85	Short-term on-the-job training
43-4111	Interviewers, Except Eligibility and Loan	573	756	183	31.9%	18	15	33	\$10.82	Short-term on-the-job training
43-4121	Library Assistants, Clerical	279	339	60	21.5%	6	11	17	\$9.50	Short-term on-the-job training
43-4131	Loan Interviewers and Clerks	648	518	-130	-20.1%	0	9	9	\$12.77	Short-term on-the-job training
43-4141	New Accounts Clerks	413	445	32	7.7%	3	10	13	\$11.85	Work experience in a related occupation
43-4151	Order Clerks	1,207	1,141	-66	-5.5%	0	27	27	\$12.13	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	592	664	72	12.2%	7	13	20	\$14.38	Short-term on-the-job training
43-4171	Receptionists and Information Clerks	3,901	4,813	912	23.4%	91	96	187	\$10.06	Short-term on-the-job training
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	278	304	26	9.4%	3	7	10	\$11.61	Short-term on-the-job training
43-4999	Financial, Information, and Record Clerks, All Other	1,060	1,128	68	6.4%	7	17	24	\$13.42	Short-term on-the-job training
43-5011	Cargo and Freight Agents	143	148	5	3.5%	1	3	4	\$15.38	Moderate-term on-the-job training
43-5021	Couriers and Messengers	371	381	10	2.7%	1	9	10	\$10.09	Short-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	654	773	119	18.2%	12	14	26	\$13.12	Moderate-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	810	855	45	5.6%	5	17	22	\$13.94	Moderate-term on-the-job training
43-5041	Meter Readers, Utilities	275	250	-25	-9.1%	0	9	9	\$14.32	Short-term on-the-job training
43-5051	Postal Service Clerks	654	592	-62	-9.5%	0	17:	17		Short-term on-the-job training
43-5052	Postal Service Mail Carriers	1,668	1,512	-156	-9.4%	0	52	52		Short-term on-the-job training

soc	Occupation	Ave Emplo	_ 1		nge in oyment	Average	Annual O	penings	2003 Avg	Education/Training Descriptor
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	1,273	1,039	-234	-18.4%	0	34	34	\$16.90	Short-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	1,110	1,098	-12	-1.1%	0	27	27	\$18.70	Short-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	3,457	3,360	-97	-2.8%	0	71	71	\$12.32	Short-term on-the-job training
43-5081	Stock Clerks and Order Fillers	6,840	6,404	-436	-6.4%	0	253	253	\$10.28	Short-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	236	249	13	5.5%	1	6	7	\$12.38	Short-term on-the-job training
43-6011	Executive Secretaries and Administrative Assistants	4,651	4,837	186	4.0%	19	89	108	\$15.87	Moderate-term on-the-job training
43-6012	Legal Secretaries	1,037	1,066	29	2.8%	3	20	23	\$15.96	Postsecondary vocational award
43-6013	Medical Secretaries	2,064	2,411	347	16.8%	35	40	75	\$12.76	Postsecondary vocational award
43-6014	Secretaries, Except Legal, Medical, and Executive	9,420	8,848	-572	-6.1%	0	180	180	\$11.79	Moderate-term on-the-job training
43-9011	Computer Operators	746	577	-169	-22.7%	0	16	16	\$14.57	Moderate-term on-the-job training
43-9021	Data Entry Keyers	1,306	1,100	-206	-15.8%	0	31	31	\$10.61	Moderate-term on-the-job training
43-9022	Word Processors and Typists	1,540	839	-701	-45.5%	0	34	34	\$11.19	Moderate-term on-the-job training
43-9031	Desktop Publishers	120	156	36	30.0%	4	3	7	\$13.99	Postsecondary vocational award
43-9041	Insurance Claims and Policy Processing Clerks	1,154	1,126	-28	-2.4%	0	19	19	\$13.06	Moderate-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	752	707	-45	-6.0%	0	23	23	\$10.67	Short-term on-the-job training
43-9061	Office Clerks, General	11,981	12,323	342	2.9%	34	265	299	\$10.77	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	295	265	-30	-10.2%	0	7	7	\$10.49	Short-term on-the-job training
43-9081	Proofreaders and Copy Markers	145	134	-11	-7.6%	0	3	3	\$11.88	Short-term on-the-job training
43-9111	Statistical Assistants	139	124	-15	-10.8%	0	2	2	\$14.24	Moderate-term on-the-job training
43-9999	Secretaries, Administrative Assistants, and Other Office Support Workers, All Other	797	727	-70	-8.8%	0	17	17	\$12.77	Short-term on-the-job training
45-0000	Farming, Fishing, and Forestry Occupations	8,027	8,585	558	7.0%	70	198	268	\$11.95	NA
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	327	372	45	13.8%	5	8	13	\$16.70	Work experience in a related occupation
45-2011	Agricultural Inspectors	80	88	8	10.0%	1	2	3	\$17.00	Work experience in a related occupation
45-2041	Graders and Sorters, Agricultural Products	286	297	11	3.8%	1	8	9		Work experience in a related occupation
45-2091	Agricultural Equipment Operators	136	151	15	11.0%	2	4	6	\$8.76	Moderate-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	1,379	1,611	232	16.8%	23	39	62	\$9.61	Short-term on-the-job training
45-2093	Farmworkers, Farm and Ranch Animals	505	641	136	26.9%	14	14	28	\$8.88	Short-term on-the-job training
45-3011	Fishers and Related Fishing Workers	2,195	2,386	191	8.7%	19	63	82	NA	Moderate-term on-the-job training
45-3021	Hunters and Trappers	11	18	7	63.6%	1	1	2	NA	Moderate-term on-the-job training
45-4011	Forest and Conservation Workers	72	91	19	26.4%	2	2	4		Moderate-term on-the-job training
45-4021	Fallers	1,136	1,086	-50	-4.4%	0	21	21		Moderate-term on-the-job training

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SOC	Occupation	1	rage yment		nge in oyment	Average	Annual C	penings	2003	
Code	Оссирации	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
45-4022	Logging Equipment Operators	1,682	1,624	-58	-3.4%	0	31	31	\$12.69	Moderate-term on-the-job training
45-4023	Log Graders and Scalers	152	136	-16	-10.5%	0	3	3	\$13.80	Moderate-term on-the-job training
45-9099	Farming, Fishing, and Forestry Workers, All Other	66	84	18	27.3%	2	2	4	NA	Moderate-term on-the-job training
47-0000	Construction and Extraction Occupations	38,946	39,958	1,012	2.6%	130	744	874	\$15.36	NA
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	3,249	3,360	111	3.4%	11	55	66	\$21.05	Work experience in a related occupation
47-2011	Boilermakers	121	102	-19	-15.7%	0	4	4	\$18.97	Long-term on-the-job training
47-2021	Brickmasons and Blockmasons	496	498	2	0.4%	0	7	7	\$17.07	Long-term on-the-job training
47-2022	Stonemasons	137	136	-1	-0.7%	0	2	2	\$15.92	Long-term on-the-job training
47-2031	Carpenters	10,233	10,604	371	3.6%	37	167	204	\$14.78	Long-term on-the-job training
47-2041	Carpet Installers	193	206	13	6.7%	1	3	4	\$11.33	Moderate-term on-the-job training
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	16	16	0	0.0%	0	0	0	NA	Moderate-term on-the-job training
47-2043	Floor Sanders and Finishers	123	110	-13	-10.6%	0	2	2	\$11.76	Moderate-term on-the-job training
47-2044	Tile and Marble Setters	105	119	14	13.3%	1	2	3	\$19.20	Long-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	644	705	61	9.5%	6	13	19	\$13.52	Moderate-term on-the-job training
47-2061	Construction Laborers	3,953	4,106	153	3.9%	15	53	68	\$10.98	Moderate-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	368	395	27	7.3%	3	5	8	\$13.66	Moderate-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	1,653	1,720	67	4.1%	7	43	50	\$14.18	Moderate-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	542	590	48	8.9%	5	12	17	\$13.94	Moderate-term on-the-job training
47-2082	Tapers	70	77	7	10.0%	1	2	3	\$17.78	Moderate-term on-the-job training
47-2111	Electricians	3,549	3,665	116	3.3%	12	70	82	\$18.75	Long-term on-the-job training
47-2121	Glaziers	96	100	4	4.2%	0	2	2	\$13.45	Long-term on-the-job training
47-2130	Insulation Workers	445	415	-30	-6.7%	0	13	13	\$14.72	Moderate-term on-the-job training
47-2141	Painters, Construction and Maintenance	3,030	3,017	-13	-0.4%	0	46	46	\$15.32	Moderate-term on-the-job training
47-2142	Paperhangers	131	118	-13	-9.9%	0	2	2	\$13.63	Moderate-term on-the-job training
47-2151	Pipelayers	290	301	11	3.8%	1	7	8	\$14.17	Moderate-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	2,459	2,386	-73	-3.0%	0	57	57	\$18.75	Long-term on-the-job training
47-2161	Plasterers and Stucco Masons	13	13	0	0.0%	0	0	0	\$20.50	Long-term on-the-job training
47-2181	Roofers	493	499	6	1.2%	1	12	13	\$12.52	Moderate-term on-the-job training
47-2211	Sheet Metal Workers	1,068	1,043	-25	-2.3%	0	26	26		Moderate-term on-the-job training
47-2221	Structural Iron and Steel Workers	277	281	4	1.4%	0	5	5		Long-term on-the-job training
47-3011	HelpersBrickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	259	227	-32	-12.4%	0	11	11		Short-term on-the-job training

soc	Occupation	Aver Emplo	~		nge in oyment	Average	Annual C	penings	2003	Education Training Description
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
47-3012	HelpersCarpenters	498	509	11	2.2%	1	21	22	\$10.76	Short-term on-the-job training
47-3013	HelpersElectricians	585	561	-24	-4.1%	0	24	24	\$12.38	Short-term on-the-job training
47-3014	HelpersPainters, Paperhangers, Plasterers, and Stucco Masons	68	68	0	0.0%	0	3	3	\$10.26	Short-term on-the-job training
17-3015	Helpers-Pipelayers, Plumbers, Pipefitters, and Steamfitters	196	176	-20	-10.2%	0	8	8	\$11.12	Short-term on-the-job training
7-3016	HelpersRoofers	82	82	0	0.0%	0	3	3	\$10.08	Short-term on-the-job training
17-3019	Helpers, Construction Trades, All Other	70	65	-5	-7.1%	0	3	3	\$10.40	Short-term on-the-job training
17-4011	Construction and Building Inspectors	133	154	21	15.8%	2	3	5	\$17.15	Work experience in a related occupatio
7-4021	Elevator Installers and Repairers	276	261	-15	-5.4%	0	7	7	\$23.04	Long-term on-the-job training
47-4031	Fence Erectors	150	142	-8	-5.3%	0	2	2	\$10.13	Moderate-term on-the-job training
7-4041	Hazardous Materials Removal Workers	209	253	44	21.1%	4	6	10	\$16.00	Moderate-term on-the-job training
7-4051	Highway Maintenance Workers	2,091	2,293	202	9.7%	20	30	50	\$12.60	Moderate-term on-the-job training
7-4061	Rail-Track Laying and Maintenance Equipment Operators	88	80	-8	-9.1%	0	2	2	\$18.44	Moderate-term on-the-job training
7-4071	Septic Tank Servicers and Sewer Pipe Cleaners	66	72	6	9.1%	1	2	3	\$13.39	Moderate-term on-the-job training
7-4999	Construction Trades and Related Workers, All Other	173	181	8	4.6%	1	3	4	\$13.59	Moderate-term on-the-job training
7-5021	Earth Drillers, Except Oil and Gas	137	138	1	0.7%	0	3	3	\$13.90	Moderate-term on-the-job training
7-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	20	21	1	5.0%	0	1	1	\$19.85	Moderate-term on-the-job training
7-5049	Mining Machine Operators, All Other	22	22	0	0.0%	0	1	1		Moderate-term on-the-job training
7-5081	HelpersExtraction Workers	36	36	0	0.0%	0	1	1	\$9.96	Short-term on-the-job training
9-0000	Installation, Maintenance, and Repair Occupations	28,753	31,938	3,185	11.1%	353	664	1,017	\$16.44	NA
9-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	2,080	2,288	208	10.0%	21	52	73	\$23.58	Work experience in a related occupation
9-2011	Computer, Automated Teller, and Office Machine Repairers	589	666	77	13.1%	8	. 7	15	\$16.56	Postsecondary vocational award
9-2021	Radio Mechanics	50	39	-11	-22.0%	0	1	1	\$16.89	Postsecondary vocational award
9-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	790	798	8	1.0%	1	16	17	\$22.60	Long-term on-the-job training
9-2091	Avionics Technicians	92	105	13	14.1%	1	2	3	\$18.99	Postsecondary vocational award
9-2092	Electric Motor, Power Tool, and Related Repairers	271	254	-17	-6.3%	0	7	7	\$16.52	Postsecondary vocational award
9-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	187	216	29	15.5%	3	5	8	\$18.18	Postsecondary vocational award
9-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	427	382	-45	-10.5%	0	9	9	\$23.32	Postsecondary vocational award
9-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	84	83	-1	-1.2%	0	2	2	\$19.87	Postsecondary vocational award
9-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	32	38	6	18.8%	1	1	2	\$13.59	Postsecondary vocational award
9-2097	Electronic Home Entertainment Equipment Installers and Repairers	203	244	41	20.2%	4	4	8	\$14.13	Postsecondary vocational award
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soc	Occupation	Ave Emplo	~ 1		nge in oyment	Average	Annual C	penings	2003	
Code	Оссирации	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
49-3011	Aircraft Mechanics and Service Technicians	268	309	41	15.3%	4	6	10	\$16.48	Postsecondary vocational award
49-3021	Automotive Body and Related Repairers	940	1,105	165	17.6%	17	19	36	\$14.90	Long-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	87	102	15	17.2%	2	2	4	\$15.09	Long-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	4,840	5,578	738	15.2%	74	129	203	\$13.52	Postsecondary vocational award
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	1,473	1,651	178	12.1%	18	38	56	\$15.41	Postsecondary vocational award
49-3041	Farm Equipment Mechanics	128	139	11	8.6%	1	3	4	\$11.35	Postsecondary vocational award
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	770	829	59	7.7%	6	17	23	\$16.10	Postsecondary vocational award
49-3043	Rail Car Repairers	50	46	-4	-8.0%	0	1	1	\$18.82	Long-term on-the-job training
49-3051	Motorboat Mechanics	528	699	171	32.4%	17	13	30	\$15.70	Long-term on-the-job training
49-3052	Motorcycle Mechanics	45	65	20	44.4%	2	1	3	\$13.04	Long-term on-the-job training
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	311	399	88	28.3%	9	8	17	\$12.14	Moderate-term on-the-job training
49-3091	Bicycle Repairers	135	151	16	11.9%	2	6	8	\$9.53	Moderate-term on-the-job training
49-3092	Recreational Vehicle Service Technicians	98	142	44	44.9%	4	4	8	\$14.84	Long-term on-the-job training
49-3093	Tire Repairers and Changers	453	509	56	12.4%	6	19	25	\$8.92	Short-term on-the-job training
49-9011	Mechanical Door Repairers	52	63	11	21.2%	1	1	2	\$12.33	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	261	324	63	24.1%	6	7	13	\$17.83	Moderate-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2,080	2,478	398	19.1%	40	28	68	\$15.65	Long-term on-the-job training
49-9031	Home Appliance Repairers	208	231	23	11.1%	2	5	7	\$11.98	Long-term on-the-job training
49-9041	Industrial Machinery Mechanics	808	787	-21	-2.6%	0	16	16	\$18.66	Long-term on-the-job training
49-9042	Maintenance and Repair Workers, General	5,426	6,080	654	12.1%	65	104	169	\$14.52	Moderate-term on-the-job training
49-9043	Maintenance Workers, Machinery	435	389	-46	-10.6%	0	10	10	\$17.24	Short-term on-the-job training
49-9044	Millwrights	749	597	-152	-20.3%	0	18	18	\$20.24	Long-term on-the-job training
49-9051	Electrical Power-Line Installers and Repairers	699	730	31	4.4%	3	22	25	\$21.06	Long-term on-the-job training
49-9052	Telecommunications Line Installers and Repairers	379	384	5	1.3%	1	10	11	\$20.43	Long-term on-the-job training
49-9062	Medical Equipment Repairers	78	91	13	16.7%	1	2	3	\$19.38	Associate degree
49-9064	Watch Repairers	20	23	3	15.0%	0	1	1	NA	Long-term on-the-job training
49-9069	Precision Instrument and Equipment Repairers, All Other	171	138	-33	-19.3%	0	5	5	NA	Long-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	192	202	10	5.2%	1	5	6	\$12.34	Moderate-term on-the-job training
49-9092	Commercial Divers	40	46	6	15.0%	1	1	2	\$23.45	Moderate-term on-the-job training
49-9093	Fabric Menders, Except Garment	45	47	2	4.4%	0	1	1	\$18.11	Moderate-term on-the-job training
49-9094	Locksmiths and Safe Repairers	113	120	7	6.2%	1	4	5	\$13.19	Moderate-term on-the-job training

soc	Occupation	Ave Emplo	rage yment		nge in oyment	Average	Annual O	penings	2003	
Code	оссирации	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
49-9095	Manufactured Building and Mobile Home Installers	184	257	73	39.7%	7	5	12	\$11.77	Moderate-term on-the-job training
49-9096	Riggers	284	305	21	7.4%	2	7	9	\$17.39	Short-term on-the-job training
49-9097	Signal and Track Switch Repairers	30	31	1	3.3%	0	1	1	NA	Moderate-term on-the-job training
49-9098	Helpers-Installation, Maintenance, and Repair Workers	381	449	68	17.8%	7	13	20	\$11.85	Short-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	1,095	1,228	133	12.1%	13	25	38	\$16.07	Moderate-term on-the-job training
51-0000	Production Occupations	48,435	43,389	-5,046	-10.4%	46	1,147	1,193	\$13.86	NA
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	3,534	3,377	-157	-4.4%	0	74	74	\$21.20	Work experience in a related occupation
51-2021	Coil Winders, Tapers, and Finishers	142	122	-20	-14.1%	0	3	3	\$11.23	Short-term on-the-job training
51-2022	Electrical and Electronic Equipment Assemblers	727	628	-99	-13.6%	0	17	17	\$9.68	Short-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	207	187	-20	-9.7%	0	5	5	\$10.95	Short-term on-the-job training
51-2031	Engine and Other Machine Assemblers	188	174	-14	-7.4%	0	5	5	\$14.17	Short-term on-the-job training
51-2041	Structural Metal Fabricators and Fitters	703	597	-106	-15.1%	0	17	17	\$18.26	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	539	450	-89	-16.5%	0	14	14	\$16.24	Moderate-term on-the-job training
51-2092	Team Assemblers	3,346	2,777	-569	-17.0%	0	87	87	\$11.34	Moderate-term on-the-job training
51-2099	Assemblers and Fabricators, All Other	887	816	-71	-8.0%	0	23	23	\$9.60	Moderate-term on-the-job training
51-3011	Bakers	764	881	117	15.3%	12	18	30	\$10.43	Long-term on-the-job training
51-3021	Butchers and Meat Cutters	688	667	-21	-3.1%	0	15	15	\$11.48	Long-term on-the-job training
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	516	489	-27	-5.2%	0	11	11	\$9.93	Short-term on-the-job training
51-3023	Slaughterers and Meat Packers	20	25	5	25.0%	1	0	1	NA	Moderate-term on-the-job training
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	51	51	0	0.0%	0	2	2	\$11.56	Short-term on-the-job training
51-3092	Food Batchmakers	237	275	38	16.0%	4	6	10	\$12.01	Short-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	64	75	11	17.2%	1	2	3	\$8.85	Short-term on-the-job training
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	519	498	-21	-4.0%	0	9	9	\$16.40	Moderate-term on-the-job training
51-4012	Numerical Tool and Process Control Programmers	224	235	11	4.9%	1	4	5	\$20.91	Long-term on-the-job training
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	80	74	-6	-7.5%	0	3	3	\$13.49	Moderate-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	223	193	-30	-13.5%	0	5	5	NA	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	856	761	-95	-11.1%	0	20	20		Moderate-term on-the-job training
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	172	157	-15	-8.7%	0	5	5	\$14.76	Moderate-term on-the-job training
51-4033	Grinding/Lapping/Polishing&Buffing Machine Tool Setters/Operators/Tenders, Metal&Plastic	250	225	-25	-10.0%	0	5	5		Moderate-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	231	204	-27	-11.7%	0	4	4	\$15.81	Moderate-term on-the-job training
51-4041	Machinists	2,371	2,217	-154	-6.5%	0	55	55	\$16.62	Long-term on-the-job training

soc	Occupation	Ave Emplo	-		nge in oyment	Average	Annual O	penings	2003	
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
51-4072	Molding, Coremaking & Casting Machine Setters, Operators & Tenders, Metal & Plastic	312	248	-64	-20.5%	0	8	8	\$11.44	Moderate-term on-the-job training
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	251	238	-13	-5.2%	0	7	7	\$13.49	Moderate-term on-the-job training
51-4111	Tool and Die Makers	184	161	-23	-12.5%	0	4	4	\$18.86	Long-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	1,657	1,667	10	0.6%	1	47	48	\$16.16	Long-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	295	269	-26	-8.8%	0	8	8	\$16.21	Moderate-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	141	131	-10	-7.1%	0	3	3	\$14.32	Moderate-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	131	106	-25	-19.1%	0	4	4	\$13.51	Moderate-term on-the-job training
51-4199	Metal Workers and Plastic Workers, All Other	136	139	3	2.2%	0	3	3	\$16.59	Moderate-term on-the-job training
51-5011	Bindery Workers	462	396	-66	-14.3%	0	12	12	\$11.76	Short-term on-the-job training
51-5012	Bookbinders	20	19	-1	-5.0%	0	1	1	\$13.37	Moderate-term on-the-job training
51-5021	Job Printers	111	120	9	8.1%	1	3	4	\$14.52	Long-term on-the-job training
51-5022	Prepress Technicians and Workers	360	310	-50	-13.9%	0	8	8	\$14.97	Long-term on-the-job training
51-5023	Printing Machine Operators	866	872	6	0.7%	1	20	21	\$13.65	Moderate-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	1,171	1,249	78	6.7%	8	32	40	\$8.54	Moderate-term on-the-job training
51-6021	Pressers, Textile, Garment, and Related Materials	141	134	-7	-5.0%	0	2	2	\$9.50	Short-term on-the-job training
51-6031	Sewing Machine Operators	1,447	1,186	-261	-18.0%	0	18	18	\$9.53	Moderate-term on-the-job training
51-6041	Shoe and Leather Workers and Repairers	289	150	-139	-48.1%	0	9	9	\$10.73	Long-term on-the-job training
51-6042	Shoe Machine Operators and Tenders	374	145	-229	-61.2%	0	5	5	\$11.28	Moderate-term on-the-job training
51-6051	Sewers, Hand	391	224	-167	-42.7%	0	7	7	\$12.21	Short-term on-the-job training
51-6052	Tailors, Dressmakers, and Custom Sewers	216	196	-20	-9.3%	0	4	4	\$10.90	Long-term on-the-job training
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	69	43	-26	-37.7%	0	2	2	\$12.31	Moderate-term on-the-job training
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	309	242	-67	-21.7%	0	4	4	NA	Long-term on-the-job training
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	316	228	-88	-27.8%	0	6	6	\$11.62	Moderate-term on-the-job training
51-6092	Fabric and Apparel Patternmakers	55	47	-8	-14.5%	0	3	3	\$16.05	Long-term on-the-job training
51-6093	Upholsterers	179	167	-12	-6.7%	0	5	5	\$11.25	Long-term on-the-job training
51-6099	Textile, Apparel, and Furnishings Workers, All Other	91	69	-22	-24.2%	0	2	2	\$11.87	Short-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	830	713	-117	-14.1%	0	21	21	\$12.89	Long-term on-the-job training
51-7021	Furniture Finishers	189	172	-17	-9.0%	0	4	4	\$10.91	Long-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	824	646	-178	-21.6%	0	23	23	\$11.11	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	1,266	962	-304	-24.0%	0	33	33	\$10.93	Moderate-term on-the-job training
51-7099	Woodworkers, All Other	368	293	-75	-20.4%	0	11	11	\$9.08	Moderate-term on-the-job training

SOC	Occupation	Ave Emplo	rage yment		nge in oyment	Average	Annual C	penings	2003	
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
51-8012	Power Distributors and Dispatchers	128	122	-6	-4.7%	0	3	3	\$24.49	Long-term on-the-job training
51-8013	Power Plant Operators	232	219	-13	-5.6%	0	6	6	\$22.73	Long-term on-the-job training
51-8021	Stationary Engineers and Boiler Operators	430	355	-75	-17.4%	0	8	8	\$17.13	Long-term on-the-job training
51-8031	Water and Liquid Waste Treatment Plant and System Operators	549	577	28	5.1%	3	19	22	\$17.16	Long-term on-the-job training
51-8099	Plant and System Operators, All Other	26	26	0	0.0%	0	1	1	NA	Long-term on-the-job training
51-9011	Chemical Equipment Operators and Tenders	280	224	-56	-20.0%	0	9	9	\$19.75	Moderate-term on-the-job training
51-9012	Separating, Filtering, Clarifying, Precipitating & Still Machine Setters, Operators & Tenders	226	195	-31	-13.7%	0	7	7	\$16.66	Moderate-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	237	189	-48	-20.3%	0	6	6	\$16.01	Moderate-term on-the-job training
51-9022	Grinding and Polishing Workers, Hand	101	102	1	1.0%	0	3	3	\$10.89	Moderate-term on-the-job training
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	415	329	-86	-20.7%	0	11	11	\$16.15	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	70	70	0	0.0%	0	1	1	\$10.52	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	880	768	-112	-12.7%	0	18	18	\$14.32	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	449	386	-63	-14.0%	0	12	12	\$15.68	Moderate-term on-the-job training
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	210	167	-43	-20.5%	0	5	5	\$19.27	Moderate-term on-the-job training
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	1,781	1,694	-87	-4.9%	0	41	41	\$13.67	Moderate-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	192	221	29	15.1%	3	4	7	\$12.54	Postsecondary vocational award
51-9081	Dental Laboratory Technicians	176	179	3	1.7%	0	4	4	\$15.80	Long-term on-the-job training
51-9082	Medical Appliance Technicians	34	36	2	5.9%	0	1	1	\$13.86	Long-term on-the-job training
51-9083	Ophthalmic Laboratory Technicians	66	68	2	3.0%	0	1	1	\$10.42	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	1,654	1,651	-3	-0.2%	0	33	33	\$11.97	Short-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	703	562	-141	-20.1%	0	18	18	\$18.45	Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	351	435	84	23.9%	8	9	17	\$13.61	Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	163	164	1	0.6%	0	4	4	\$9.56	Short-term on-the-job training
51-9131	Photographic Process Workers	179	174	- 5	-2.8%	0	4	4	\$10.90	Moderate-term on-the-job training
51-9132	Photographic Processing Machine Operators	311	289	-22	-7.1%	0	8	8	\$9.29	Short-term on-the-job training
51-9191	Cementing and Gluing Machine Operators and Tenders	97	63	-34	-35.1%	0	3	3	\$11.13	Moderate-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	44	36	-8	-18.2%	0	1	1	\$16.27	Moderate-term on-the-job training
51-9194	Etchers and Engravers	71	82	11	15.5%	1	2	3	\$12.29	Long-term on-the-job training
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	154	139	-15	-9.7%	0	4	4	\$10.76	Moderate-term on-the-job training
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,013	822	-191	-18.9%	0	22	22	\$17.79	Moderate-term on-the-job training
51-9198	HelpersProduction Workers	1,616	1,421	-195	-12.1%	0	45	45	\$11.05	Short-term on-the-job training

soc	Occupation	Ave Emplo	٠ ،		nge in oyment	Average	Annual C	penings	2003	
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
51-9199	Production Workers, All Other	2,737	2,308	-429	-15.7%	0	65	65	\$13.79	Moderate-term on-the-job training
53-0000	Transportation and Material Moving Occupations	44,044	46,351	2,307	5.2%	294	961	1,255	\$12.23	NA
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	659	731	72	10.9%	7	16	23	\$17.56	Work experience in a related occupation
53-1031	First-Line Supervisors/Managers of Transportation & Material-Moving Machine Operators	840	894	54	6.4%	5	20	25	\$19.77	Work experience in a related occupation
53-2012	Commercial Pilots	74	62	-12	-16.2%	0	2	2	\$34,700	Postsecondary vocational award
53-2021	Air Traffic Controllers	75	92	17	22.7%	2	2	4	\$36.16	Long-term on-the-job training
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	77	79	2	2.6%	0	1	1	\$9.42	Moderate-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	535	612	77	14.4%	8	12	20	\$14.60	Moderate-term on-the-job training
53-3022	Bus Drivers, School	1,949	2,038	89	4.6%	9	42	51	\$11.32	Short-term on-the-job training
53-3031	Driver/Sales Workers	1,704	1,705	1	0.1%	0	28	28	\$12.81	Short-term on-the-job training
53-3032	Truck Drivers, Heavy and Tractor-Trailer	11,195	12,256	1,061	9.5%	106	183	289	\$14.13	Moderate-term on-the-job training
53-3033	Truck Drivers, Light or Delivery Services	4,707	5,392	685	14.6%	69	43	112	\$12.54	Short-term on-the-job training
53-3041	Taxi Drivers and Chauffeurs	622	775	153	24.6%	15	6	21	\$8.48	Short-term on-the-job training
53-3099	Motor Vehicle Operators, All Other	509	627	118	23.2%	12	7	19	\$7.97	Short-term on-the-job training
53-4011	Locomotive Engineers	104	105	1	1.0%	0	3	3	\$22.61	Work experience in a related occupation
53-4021	Railroad Brake, Signal, and Switch Operators	19	16	-3	-15.8%	0	О	0	\$14.27	Work experience in a related occupation
53-5011	Sailors and Marine Oilers	219	263	44	20.1%	4	8	12	\$11.96	Short-term on-the-job training
53-5021	Captains, Mates, and Pilots of Water Vessels	278	293	15	5.4%	2	8	10	\$24.77	Work experience in a related occupation
53-5022	Motorboat Operators	33	41	8	24.2%	1	1	2	\$17.14	Moderate-term on-the-job training
53-6021	Parking Lot Attendants	76	79	3	3.9%	0	2	2	\$9.06	Short-term on-the-job training
53-6031	Service Station Attendants	1,195	1,275	80	6.7%	8	54	62	\$8.05	Short-term on-the-job training
53-6051	Transportation Inspectors	87	94	7	8.0%	1	2	3	\$31.20	Work experience in a related occupation
53-6099	Transportation Workers, All Other	151	172	21	13.9%	2	5	7	\$13.49	Short-term on-the-job training
53-7011	Conveyor Operators and Tenders	323	279	-44	-13.6%	0	9	9	\$14.69	Short-term on-the-job training
53-7021	Crane and Tower Operators	216	218	2	0.9%	0	5	5	\$18.17	Moderate-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	871	891	20	2.3%	2	24	26	\$14.56	Moderate-term on-the-job training
53-7051	Industrial Truck and Tractor Operators	2,742	2,723	-19	-0.7%	0	52	52	\$12.86	Short-term on-the-job training
53-7061	Cleaners of Vehicles and Equipment	1,050	1,166	116	11.0%	12	37	49		Short-term on-the-job training
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	7,942	7,596	-346	-4.4%	0	260	260	}	Short-term on-the-job training
1	Machine Feeders and Offbearers	1,219	1,023	-196	-16.1%	0	33	33		Short-term on-the-job training
53-7064	Packers and Packagers, Hand	3,386	3,613	227	6.7%	23	63	86		Short-term on-the-job training

Employment and Job Openings for All Occupations in Maine in 2002 and Projected 2012 (Sorted by Occupational Group) Average Change in Average Annual Openings 2003 Employment **Employment** SOC Occupation **Education/Training Requirement** Avg. Code Replace-Wage 2002 Growth Total 2012 Net Percent ment \$14.30 Moderate-term on-the-job training 53-7072 Pump Operators, Except Wellhead Pumpers 20 21 5.0% Refuse and Recyclable Material Collectors 761 797 36 4.7% 24 \$10.39 Short-term on-the-job training 20 53-7199 Material Moving Workers, All Other 70 70 0.0% NA Moderate-term on-the-job training

Average wages are for wage and salary workers only and do not include the self-employed.

Detail may not add to totals due to the suppression of confidential data.

soc	Occupation		rage syment		nge in oyment	Average	Annual O	penings	2003	
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
13-2011	Accountants and Auditors	3,659	4,080	421	11.5%	42	69	111	\$23.76	Bachelor's degree
27-2011	Actors	73	85	12	16.4%	1	1	2	\$25,710	Long-term on-the-job training
23-1021	Administrative Law Judges, Adjudicators, and Hearing Officers	138	138	0	0.0%	0	2	2	\$24.33	Bachelor's degree plus work experience
11-3011	Administrative Services Managers	1,065	1,184	119	11.2%	12	21	33	\$25.09	Bachelor's degree plus work experience
25-3011	Adult Literacy, Remedial Education, and GED Teachers and Instructors	163	193	30	18.4%	3	2	5	\$15.94	Bachelor's degree
11-2011	Advertising and Promotions Managers	474	582	108	22.8%	11	9	20	\$26.08	Bachelor's degree plus work experience
41-3011	Advertising Sales Agents	684	775	91	13.3%	9	13	22	\$18.45	Moderate-term on-the-job training
13-1011	Agents and Business Managers of Artists, Performers, and Athletes	41	65	24	58.5%	2	1	3	\$14.13	Bachelor's degree plus work experience
19-4011	Agricultural and Food Science Technicians	78	80	2	2.6%	0	2	2	\$14.36	Associate degree
19-1010	Agricultural and Food Scientists	153	176	23	15.0%	2	3	5	\$26.09	Bachelor's degree
45-2091	Agricultural Equipment Operators	136	151	15	11.0%	2	4	6	\$8.76	Moderate-term on-the-job training
45-2011	Agricultural Inspectors	80	88	8	10.0%	1	2	3	\$17.00	Work experience in a related occupation
53-2021	Air Traffic Controllers	75	92	17	22.7%	2	2	4	\$36.16	Long-term on-the-job training
49-3011	Aircraft Mechanics and Service Technicians	268	309	41	15.3%	4	6	10	\$16.48	Postsecondary vocational award
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	77	79	2	2.6%	0	1	1	\$9.42	Moderate-term on-the-job training
39-3091	Amusement and Recreation Attendants	853	1,144	291	34.1%	29	25	54	\$8.66	Short-term on-the-job training
29-1061	Anesthesiologists	124	152	28	22.6%	3	2	5	\$93.51	First Professional degree
33-9011	Animal Control Workers	76	91	15	19.7%	2	5	7	\$9.23	Moderate-term on-the-job training
39-2011	Animal Trainers	67	60	-7	-10.4%	0	1	1	NA	Moderate-term on-the-job training
27-3010	Announcers	379	327	-52	-13.7%	0	10	10	\$15.52	Long-term on-the-job training
25-1061	Anthropology and Archeology Teachers, Postsecondary	28	36	8	28.6%	1	1	2	\$62,460	Doctoral degree
13-2021	Appraisers and Assessors of Real Estate	437	503	66	15.1%	7	9	16	\$21.53	Postsecondary vocational award
23-1022	Arbitrators, Mediators, and Conciliators	16	16	0	0.0%	0	0	0	\$19.67	Bachelor's degree plus work experience
17-1011	Architects, Except Landscape and Naval	461	540	79	17.1%	8	5	13	\$27.06	Bachelor's degree
17-3011	Architectural and Civil Drafters	579	563	-16	-2.8%	0	16	16	\$17.12	Postsecondary vocational award
25-4010	Archivists, Curators, and Museum Technicians	169	194	25	14.8%	3	4	7	\$17.94	Master's degree
25-1062	Area, Ethnic, and Cultural Studies Teachers, Postsecondary	42	54	12	28.6%	1	1	2	\$54,900	Doctoral degree
27-1099	Art and Design Workers, All Other	219	251	32	14.6%	3	4	7	\$14.92	Bachelor's degree
27-1011	Art Directors	71	83	12	16.9%	1	2	3	\$23.74	Bachelor's degree plus work experience
25-1121	Art, Drama, and Music Teachers, Postsecondary	197	261	64	32.5%	6	4	10	\$52,630	Master's degree
51-2099	Assemblers and Fabricators, All Other	887	816	-71	-8.0%	0	23	23	\$9.60	Moderate-term on-the-job training

soc	Occupation	Ave Emplo	٠ ،		nge in oyment	Average	Annual O	penings	2003 Ava	Education/Training Requirement
Code	оссиранов	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education Framing Requirement
27-2021	Athletes and Sports Competitors	147	195	48	32.7%	5	3	8	NA	Long-term on-the-job training
29-9091	Athletic Trainers	52	67	15	28.8%	2	1	3	\$33,140	Bachelor's degree
19-2021	Atmospheric and Space Scientists	33	37	4	12.1%	0	1	1	\$29.56	Bachelor's degree
25-1051	Atmospheric, Earth, Marine, and Space Sciences Teachers, Postsecondary	122	155	33	27.0%	3	3	6	\$63,100	Doctoral degree
27-4011	Audio and Video Equipment Technicians	52	65	13	25.0%	1	1	2	\$13.18	Long-term on-the-job training
29-1121	Audiologists	42	54	12	28.6%	1	1	2	\$25.10	Master's degree
25-9011	Audio-Visual Collections Specialists	27	29	2	7.4%	о	o	0	\$14.95	Moderate-term on-the-job training
49-3021	Automotive Body and Related Repairers	940	1,105	165	17.6%	17	19	36	\$14.90	Long-term on-the-job training
49-3022	Automotive Glass Installers and Repairers	87	102	15	17.2%	2	2	4	\$15.09	Long-term on-the-job training
49-3023	Automotive Service Technicians and Mechanics	4,840	5,578	738	15.2%	74	129	203	\$13.52	Postsecondary vocational award
49-2091	Avionics Technicians	92	105	13	14.1%	1	2	3	\$18.99	Postsecondary vocational award
39-6011	Baggage Porters and Bellhops	123	128	5	4.1%	1	3	4	\$13.39	Short-term on-the-job training
33-3011	Bailiffs	47	56	9	19.1%	1	1	2	NA	Moderate-term on-the-job training
51-3011	Bakers	764	881	117	15.3%	12	18	30	\$10.43	Long-term on-the-job training
39-5011	Barbers	357	382	25	7.0%	3	10	13	NA	Postsecondary vocational award
35-3011	Bartenders	2,577	2,682	105	4.1%	11	102	113	\$8.64	Short-term on-the-job training
49-3091	Bicycle Repairers	135	151	16	11.9%	2	6	8	\$9.53	Moderate-term on-the-job training
43-3011	Bill and Account Collectors	2,012	2,374	362	18.0%	36	38	74	\$13.22	Short-term on-the-job training
43-3021	Billing and Posting Clerks and Machine Operators	2,514	2,653	139	5.5%	14	43	57	\$11.78	Moderate-term on-the-job training
51-5011	Bindery Workers	462	396	-66	-14.3%	0	12	12	\$11.76	Short-term on-the-job training
19-1021	Biochemists and Biophysicists	41	44	3	7.3%	0	1	1	\$29.44	Doctoral degree
25-1042	Biological Science Teachers, Postsecondary	189	241	52	27.5%	5	4	9	\$57,330	Doctoral degree
19-4021	Biological Technicians	485	638	153	31.5%	15	8	23	NA	Associate degree
47-2011	Boilermakers	121	102	-19	-15.7%	0	4	4	\$18.97	Long-term on-the-job training
51-5012	Bookbinders	20	19	-1	-5.0%	0	1	1	\$13.37	Moderate-term on-the-job training
43-3031	Bookkeeping, Accounting, and Auditing Clerks	9,530	9,581	51	0.5%	5	179	184		Moderate-term on-the-job training
47-2021	Brickmasons and Blockmasons	496	498	2	0.4%	0	7	7		Long-term on-the-job training
27-4012	Broadcast Technicians	163	176	13	8.0%	1	4	5	\$13.15	Associate degree
43-4011	Brokerage Clerks	128	120	-8	-6.3%	0	2	2	\$13.99	Moderate-term on-the-job training
13-2031	Budget Analysts	219	242	23	10.5%	2	4	6		Bachelor's degree
37-9099	Building and Grounds Cleaning and Maintenance Workers, All Other	143	164	21	14.7%	2	3	5		Short-term on-the-job training

soc	Occupation	Ave Emplo	٠ ١		nge in oyment	Average	Annual C	penings	2003	
Code	оссирации	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	1,473	1,651	178	12.1%	18	38	56	\$15.41	Postsecondary vocational award
53-3022	Bus Drivers, School	1,949	2,038	89	4.6%	9	42	51	\$11.32	Short-term on-the-job training
53-3021	Bus Drivers, Transit and Intercity	535	612	77	14.4%	8	12	20	\$14.60	Moderate-term on-the-job training
13-1199	Business Operations Specialists, All Other	3,161	4,009	848	26.8%	85	54	139	\$23.85	Bachelor's degree
25-1011	Business Teachers, Postsecondary	352	441	89	25.3%	9	8	17	\$47,790	Master's degree
51-3021	Butchers and Meat Cutters	688	667	-21	-3.1%	0	15	15	\$11.48	Long-term on-the-job training
51-7011	Cabinetmakers and Bench Carpenters	830	713	-117	-14.1%	0	21	21	\$12.89	Long-term on-the-job training
27-4031	Camera Operators, Television, Video, and Motion Picture	95	102	7	7.4%	1	2	3	\$11.46	Moderate-term on-the-job training
53-5021	Captains, Mates, and Pilots of Water Vessels	278	293	15	5.4%	2	8	10	\$24.77	Work experience in a related occupation
29-2031	Cardiovascular Technologists and Technicians	213	299	86	40.4%	9	4	13	\$19.82	Associate degree
43-5011	Cargo and Freight Agents	143	148	5	3.5%	1	3	4	\$15.38	Moderate-term on-the-job training
47-2031	Carpenters	10,233	10,604	371	3.6%	37	167	204	\$14.78	Long-term on-the-job training
47-2041	Carpet Installers	193	206	13	6.7%	1	3	4	\$11.33	Moderate-term on-the-job training
17-1021	Cartographers and Photogrammetrists	86	94	8	9.3%	1	3	4	\$19.62	Bachelor's degree
41-2011	Cashiers	17,616	20,017	2,401	13.6%	240	857	1,097	\$8.09	Short-term on-the-job training
47-2051	Cement Masons and Concrete Finishers	644	705	61	9.5%	6	13	19	\$13.52	Moderate-term on-the-job training
51-9191	Cementing and Gluing Machine Operators and Tenders	97	63	34	-35.1%	0	3	3	\$11.13	Moderate-term on-the-job training
35-1011	Chefs and Head Cooks	970	1,120	150	15.5%	15	29	44	\$17.74	Work experience in a related occupation
17-2041	Chemical Engineers	217	207	-10	-4.6%	0	7	7	\$33.69	Bachelor's degree
51-9011	Chemical Equipment Operators and Tenders	280	224	-56	-20.0%	0	9	9	\$19.75	Moderate-term on-the-job training
19-4031	Chemical Technicians	82	85	3	3.7%	0	2	2	\$15.66	Associate degree
25-1052	Chemistry Teachers, Postsecondary	78	101	23	29.5%	2	2	4	\$53,210	Doctoral degree
19-2031	Chemists	158	153	- 5	-3.2%	0	5	5	\$22.82	Bachelor's degree
11-1011	Chief Executives	2,257	2,520	263	11.7%	26	43	69	\$54.97	Bachelor's degree plus work experience
39-9011	Child Care Workers	6,689	7,877	1,188	17.8%	119	182	301	\$8.76	Short-term on-the-job training
21-1021	Child, Family, and School Social Workers	2,089	2,582	493	23.6%	49	36	85	\$16.61	Bachelor's degree
29-1011	Chiropractors	279	355	76	27.2%	8	5	13	\$24.63	First Professional degree
17-3022	Civil Engineering Technicians	520	523	3	0.6%	0	11	11	\$18.68	Associate degree
17-2051	Civil Engineers	1,134	1,135	1	0.1%	0	18	18	\$26.57	Bachelor's degree
53-7061	Cleaners of Vehicles and Equipment	1,050	1,166	116	11.0%	12	37	49	\$9.42	Short-term on-the-job training
51-9192	Cleaning, Washing, and Metal Pickling Equipment Operators and Tenders	44	36	-8	-18.2%	0	1	1	\$16.27	Moderate-term on-the-job training

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soc	Occupation	Avei Emplo	- 1		nge in oyment	Average	Annual O	penings	2003	Education/Training Requirement
Code	Cecupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
21-2011	Clergy	2,176	2,499	323	14.8%	32	45	77	\$20.91	First Professional degree
19-3031	Clinical, Counseling, and School Psychologists	808	1,063	255	31.6%	26	18	44	\$29.75	Doctoral degree
27-2022	Coaches and Scouts	1,025	1,191	166	16.2%	17	20	37	\$27,830	Long-term on-the-job training
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	703	562	-141	-20.1%	0	18	18	\$18.45	Moderate-term on-the-job training
51-2021	Coil Winders, Tapers, and Finishers	142	122	-20	-14.1%	0	3	3	\$11.23	Short-term on-the-job training
49-9091	Coin, Vending, and Amusement Machine Servicers and Repairers	192	202	10	5.2%	1	5	6	\$12.34	Moderate-term on-the-job training
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	10,726	13,000	2,274	21.2%	227	465	692	\$7.90	Short-term on-the-job training
27-1021	Commercial and Industrial Designers	118	108	-10	-8.5%	0	2	2	\$20.60	Bachelor's degree
49-9092	Commercial Divers	40	46	6	15.0%	1	1	2	\$23.45	Moderate-term on-the-job training
53-2012	Commercial Pilots	74	62	-12	-16.2%	0	2	2	\$34,700	Postsecondary vocational award
43-2099	Communications Equipment Operators, All Other	12	10	-2	-16.7%	0	0	0	NA	Short-term on-the-job training
25-1122	Communications Teachers, Postsecondary	56	71	15	26.8%	2	1	3	\$49,020	Doctoral degree
13-1072	Compensation, Benefits, and Job Analysis Specialists	410	481	71	17.3%	7	6	13	\$20.39	Bachelor's degree
13-1041	Compliance Officers, Except Agriculture, Construction, Health & Safety & Transportation	822	923	101	12.3%	10	19	29	\$20.30	Long-term on-the-job training
15-1011	Computer and Information Scientists, Research	18	24	6	33.3%	1	o	1	NA	Doctoral degree
11-3021	Computer and Information Systems Managers	1,155	1,386	231	20.0%	23	21	44	\$34.18	Bachelor's degree plus work experience
17-2061	Computer Hardware Engineers	19	19	0	0.0%	0	0	0	\$31.36	Bachelor's degree
43-9011	Computer Operators	746	577	-169	-22.7%	0	16	16	\$14.57	Moderate-term on-the-job training
15-1021	Computer Programmers	936	885	-51	-5.4%	0	22	22	\$25.01	Bachelor's degree
25-1021	Computer Science Teachers, Postsecondary	171	206	35	20.5%	4	4	8	\$47,050	Master's degree
15-1031	Computer Software Engineers, Applications	1,233	1,407	174	14.1%	17	12	29	\$30.27	Bachelor's degree
15-1032	Computer Software Engineers, Systems Software	319	370	51	16.0%	5	3	8	\$33.21	Bachelor's degree
15-1099	Computer Specialists, All Other	227	293	66	29.1%	7	3	10	\$22.75	Associate degree
15-1041	Computer Support Specialists	1,677	1,899	222	13.2%	22	21	43	\$16.58	Associate degree
15-1051	Computer Systems Analysts	1,504	1,830	326	21.7%	33	17	50	\$27.37	Bachelor's degree
49-2011	Computer, Automated Teller, and Office Machine Repairers	589	666	77	13.1%	8	7	15	\$16.56	Postsecondary vocational award
51-4011	Computer-Controlled Machine Tool Operators, Metal and Plastic	519	498	-21	-4.0%	0	9	9	\$16.40	Moderate-term on-the-job training
39-6012	Concierges	26	31	5	19.2%	1	1	2	\$10.00	Moderate-term on-the-job training
19-1031	Conservation Scientists	206	212	6	2.9%	1	6	7	\$19.35	Bachelor's degree
47-4011	Construction and Building Inspectors	133	154	21	15.8%	2	3	5	\$17.15	Work experience in a related occupation
47-2061	Construction Laborers	3,953	4,106	153	3.9%	15	53	68		Moderate-term on-the-job training

soc	Occupation	Ave Emplo	rage yment		nge in oyment	Average	Annual C	penings	2003	
Code	Оссирации	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
11-9021	Construction Managers	1,571	1,636	65	4.1%	7	29	36	\$29.68	Bachelor's degree
47-4999	Construction Trades and Related Workers, All Other	173	181	8	4.6%	1	3	4	\$13.59	Moderate-term on-the-job training
49-9012	Control and Valve Installers and Repairers, Except Mechanical Door	261	324	63	24.1%	6	7	13	\$17.83	Moderate-term on-the-job training
53-7011	Conveyor Operators and Tenders	323	279	-44	-13.6%	0	9	9	\$14.69	Short-term on-the-job training
35-2011	Cooks, Fast Food	2,051	2,143	92	4.5%	9	64	73	\$7.90	Short-term on-the-job training
35-2012	Cooks, Institution and Cafeteria	2,331	2,277	-54	-2.3%	0	72	72	\$10.38	Moderate-term on-the-job training
35-2013	Cooks, Private Household	10	10	0	0.0%	0	0	0	NA	Long-term on-the-job training
35-2014	Cooks, Restaurant	3,864	4,389	525	13.6%	53	120	173	\$9.73	Long-term on-the-job training
35-2015	Cooks, Short Order	1,807	1,932	125	6.9%	13	56	69	\$8.50	Short-term on-the-job training
33-3012	Correctional Officers and Jailers	1,379	1,649	270	19.6%	27	29	56	\$12.53	Moderate-term on-the-job training
43-4021	Correspondence Clerks	102	92	-10	-9.8%	0	3	3	\$12.56	Short-term on-the-job training
13-1051	Cost Estimators	609	652	43	7.1%	4	14	18	\$21.17	Work experience in a related occupation
21-9099	Counselors, Social, and Religious Workers, All Other	891	1,253	362	40.6%	36	17	53	\$14.94	Bachelor's degree
41-2021	Counter and Rental Clerks	1,610	1,946	336	20.9%	34	62	96	\$9.61	Short-term on-the-job training
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	1,983	2,330	347	17.5%	35	129	164	\$8.06	Short-term on-the-job training
43-5021	Couriers and Messengers	371	381	10	2.7%	1	9	10	\$10.09	Short-term on-the-job training
23-2091	Court Reporters	145	177	32	22.1%	3	2	5	\$28.99	Postsecondary vocational award
43-4031	Court, Municipal, and License Clerks	854	958	104	12.2%	10	19	29	\$12.99	Short-term on-the-job training
53-7021	Crane and Tower Operators	216	218	2	0.9%	0	5	5	\$18.17	Moderate-term on-the-job training
43-4041	Credit Authorizers, Checkers, and Clerks	98	95	-3	-3.1%	0	2	2	\$12.30	Short-term on-the-job training
25-1111	Criminal Justice and Law Enforcement Teachers, Postsecondary	30	37	7	23.3%	1	1	2	\$49,130	Doctoral degree
33-9091	Crossing Guards	403	504	101	25.1%	10	13	23	\$8.28	Short-term on-the-job training
51-9021	Crushing, Grinding, and Polishing Machine Setters, Operators, and Tenders	237	189	-48	-20.3%	0	6	6	\$16.01	Moderate-term on-the-job training
43-4051	Customer Service Representatives	7,173	8,133	960	13.4%	96	107	203	\$13.17	Moderate-term on-the-job training
51-9031	Cutters and Trimmers, Hand	70	70	0	0.0%	0	1	1	\$10.52	Short-term on-the-job training
51-9032	Cutting and Slicing Machine Setters, Operators, and Tenders	880	768	-112	-12.7%	0	18	18	\$14.32	Moderate-term on-the-job training
51-4031	Cutting, Punching, and Press Machine Setters, Operators, and Tenders, Metal and Plastic	856	761	-95	-11.1%	0	20	20	\$12.90	Moderate-term on-the-job training
43-9021	Data Entry Keyers	1,306	1,100	-206	-15.8%	0	31	31	\$10.61	Moderate-term on-the-job training
15-1061	Database Administrators	268	358	90	33.6%	9	3	12	\$25.37	Bachelor's degree
41-9011	Demonstrators and Product Promoters	594	782	188	31.6%	19	13	32	\$10.97	Moderate-term on-the-job training
31-9091	Dental Assistants	948	1,238	290	30.6%	29	27	56	\$12.70	Moderate-term on-the-job training

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SOC	Occupation	Aver Emplo	· 1		nge in Dyment	Average	Annual O	penings	2003 Avg.	Education/Training Requirement
Code		2002	2012	Net	Percent	Growth	Replace- ment	Total	Wage	Education/ 17 aining Nequitement
29-2021	Dental Hygienists	993	1,297	304	30.6%	30	9	39	\$24.72	Associate degree
51-9081	Dental Laboratory Technicians	176	179	3	1.7%	0	4	4	\$15.80	Long-term on-the-job training
29-1020	Dentists	607	599	-8	-1.3%	0	10	10	\$50.98	First Professional degree
43-9031	Desktop Publishers	120	156	36	30.0%	4	3	7	\$13.99	Postsecondary vocational award
33-3021	Detectives and Criminal Investigators	332	418	86	25.9%	9	9	18	\$21.69	Work experience in a related occupation
29-2032	Diagnostic Medical Sonographers	152	193	41	27.0%	4	3	7	\$25.85	Associate degree
29-2051	Dietetic Technicians	162	201	39	24.1%	4	2	6	\$12.26	Moderate-term on-the-job training
29-1031	Dietitians and Nutritionists	252	310	58	23.0%	6	7	13	\$19.56	Bachelor's degree
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	1,495	1,690	195	13.0%	20	50	70	\$7.51	Short-term on-the-job training
21-2021	Directors, Religious Activities and Education	230	283	53	23.0%	5	3	8	NA	Bachelor's degree
35-9021	Dishwashers	3,360	3,504	144	4.3%	14	113	127	\$7.45	Short-term on-the-job training
43-5032	Dispatchers, Except Police, Fire, and Ambulance	810	855	45	5.6%	5	17	22	\$13.94	Moderate-term on-the-job training
41-9091	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers	757	897	140	18.5%	14	18	32	\$13.57	Short-term on-the-job training
17-3099	Drafters, Engineering, and Mapping Technicians, All Other	760	807	47	6.2%	5	18	23	\$25.39	Associate degree
51-4032	Drilling and Boring Machine Tool Setters, Operators, and Tenders, Metal and Plastic	172	157	-15	-8.7%	0	5	5	\$14.76	Moderate-term on-the-job training
53-3031	Driver/Sales Workers	1,704	1,705	1	0.1%	0	28	28	\$12.81	Short-term on-the-job training
47-2081	Drywall and Ceiling Tile Installers	542	590	48	8.9%	5	12	17	\$13.94	Moderate-term on-the-job training
47-5021	Earth Drillers, Except Oil and Gas	137	138	1	0.7%	0	3	3	\$13.90	Moderate-term on-the-job training
25-1063	Economics Teachers, Postsecondary	58	74	16	27.6%	2	1	3	\$63,440	Doctoral degree
19-3011	Economists	71	79	8	11.3%	1	2	3	\$25.52	Master's degree
27-3041	Editors	532	601	69	13.0%	7	13	20	\$18.79	Bachelor's degree
11-9039	Education Administrators, All Other	134	155	21	15.7%	2	3	5	NA	Bachelor's degree plus work experience
11-9032	Education Administrators, Elementary and Secondary School	1,349	1,440	91	6.7%	9	34	43	\$60,320	Bachelor's degree plus work experience
11-9033	Education Administrators, Postsecondary	504	590	86	17.1%	9	13	22	\$30.25	Bachelor's degree plus work experience
11-9031	Education Administrators, Preschool and Child Care Center/Program	161	187	26	16.1%	3	4	7	\$17.68	Bachelor's degree plus work experience
25-1081	Education Teachers, Postsecondary	352	455	103	29.3%	10	8	18	\$46,240	Doctoral degree
21-1012	Educational, Vocational, and School Counselors	1,198	1,211	13	1.1%	1	27	28	\$19.68	Master's degree
49-2092	Electric Motor, Power Tool, and Related Repairers	271	254	-17	-6.3%	0	7	7	\$16.52	Postsecondary vocational award
17-3023	Electrical and Electronic Engineering Technicians	548	590	42	7.7%	4	12	16	\$21.33	Associate degree
51-2022	Electrical and Electronic Equipment Assemblers	727	628	-99	-13.6%	0	17	17	\$9.68	Short-term on-the-job training
17-3012	Electrical and Electronics Drafters	73	70	-3	-4 .1%	0	2	2		Postsecondary vocational award

soc	Occupation		rage yment		nge in oyment	Average	Annual C	penings	2003	
Code	Оссирации	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	187	216	29	15.5%	3	5	8	\$18.18	Postsecondary vocational award
49-2094	Electrical and Electronics Repairers, Commercial and Industrial Equipment	427	382	-45	-10.5%	0	9	9	\$23.32	Postsecondary vocational award
49-2095	Electrical and Electronics Repairers, Powerhouse, Substation, and Relay	84	83	-1	-1.2%	0	2	2	\$19.87	Postsecondary vocational award
17-2071	Electrical Engineers	485	463	-22	-4.5%	0	10	10	\$31.63	Bachelor's degree
49-9051	Electrical Power-Line Installers and Repairers	699	730	31	4.4%	3	22	25	\$21.06	Long-term on-the-job training
47-2111	Electricians	3,549	3,665	116	3.3%	12	70	82	\$18.75	Long-term on-the-job training
51-2023	Electromechanical Equipment Assemblers	207	187	-20	-9.7%	0	5	5	\$10.95	Short-term on-the-job training
49-2096	Electronic Equipment Installers and Repairers, Motor Vehicles	32	38	6	18.8%	1	1	2	\$13.59	Postsecondary vocational award
49-2097	Electronic Home Entertainment Equipment Installers and Repairers	203	244	41	20.2%	4	4	8	\$14.13	Postsecondary vocational award
17-2072	Electronics Engineers, Except Computer	281	299	18	6.4%	2	6	8	\$34.40	Bachelor's degree
25-2021	Elementary School Teachers, Except Special Education	6,444	6,499	55	0.9%	6	142	148	\$38,690	Bachelor's degree
47-4021	Elevator Installers and Repairers	276	261	-15	-5.4%	0	7	7	\$23.04	Long-term on-the-job training
43-4061	Eligibility Interviewers, Government Programs	622	529	-93	-15.0%	0	17	17	\$14.01	Moderate-term on-the-job training
13-1061	Emergency Management Specialists	60	81	21	35.0%	2	1	3	\$19.77	Work experience in a related occupation
29-2041	Emergency Medical Technicians and Paramedics	1,512	1,830	318	21.0%	32	17	49	\$11.38	Postsecondary vocational award
13-1071	Employment, Recruitment, and Placement Specialists	605	643	38	6.3%	4	9	13	\$20.54	Bachelor's degree
51-2031	Engine and Other Machine Assemblers	188	174	-14	-7.4%	0	5	5	\$14.17	Short-term on-the-job training
11-9041	Engineering Managers	776	785	9	1.2%	1	16	17	\$41.32	Bachelor's degree plus work experience
25-1032	Engineering Teachers, Postsecondary	133	170	37	27.8%	4	3	7	\$68,890	Doctoral degree
17-2199	Engineers, All Other	625	600	-25	-4.0%	0	12	12	\$34.09	Bachelor's degree
25-1123	English Language and Literature Teachers, Postsecondary	340	428	88	25.9%	9	8	17	\$46,490	Master's degree
27-2099	Entertainers and Performers, Sports and Related Workers, All Other	79	92	13	16.5%	1	1	2	NA	Long-term on-the-job training
17-2081	Environmental Engineers	199	254	55	27.6%	6	3	9	\$30.99	Bachelor's degree
19-4091	Environmental Science and Protection Technicians, Including Health	200	259	59	29.5%	6	5	11	\$14.33	Associate degree
25-1053	Environmental Science Teachers, Postsecondary	18	24	6	33.3%	1	0	1	\$52,880	Doctoral degree
19-2041	Environmental Scientists and Specialists, Including Health	544	648	104	19.1%	10	10	20	\$21.69	Master's degree
19-1041	Epidemiologists	14	17	3	21.4%	0	0	0	\$29.68	Master's degree
51-9194	Etchers and Engravers	71	82	11	15.5%	1	2	3	\$12.29	Long-term on-the-job training
53-7032	Excavating and Loading Machine and Dragline Operators	871	891	20	2.3%	2	24	26	\$14.56	Moderate-term on-the-job training
43-6011	Executive Secretaries and Administrative Assistants	4,651	4,837	186	4.0%	19	89	108	\$15.87	Moderate-term on-the-job training
47-5031	Explosives Workers, Ordnance Handling Experts, and Blasters	20	21	1	5.0%	0	1	1	\$19.85	Moderate-term on-the-job training

305		Ave: Emplo	- 1		nge in oyment	Average	Annual O	penings	2003	
SOC Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
51-4021	Extruding and Drawing Machine Setters, Operators, and Tenders, Metal and Plastic	80	74	-6	-7.5%	0	3	3	\$13.49	Moderate-term on-the-job training
51-9041	Extruding, Forming, Pressing, and Compacting Machine Setters, Operators, and Tenders	449	386	-63	-14.0%	0	12	12	\$15.68	Moderate-term on-the-job training
51-6092	Fabric and Apparel Patternmakers	55	47	-8	-14.5%	0	3	3	\$16.05	Long-term on-the-job training
49-9093	Fabric Menders, Except Garment	45	47	2	4.4%	0	1	1	\$18.11	Moderate-term on-the-job training
45-4021	Fallers	1,136	1,086	-50	-4.4%	0	21	21	\$10.78	Moderate-term on-the-job training
29-1062	Family and General Practitioners	825	1,012	187	22.7%	19	11	30	\$56.86	First Professional degree
25-9021	Farm and Home Management Advisors	82	83	1	1.2%	0	1	1	NA	Bachelor's degree
49-3041	Farm Equipment Mechanics	128	139	11	8.6%	1	3	4	\$11.35	Postsecondary vocational award
11-9011	Farm, Ranch, and Other Agricultural Managers	494	611	117	23.7%	12	9	21	\$20.57	Bachelor's degree plus work experience
11-9012	Farmers and Ranchers	2,732	2,719	-13	-0.5%	0	16	16	NA	Long-term on-the-job training
45-9099	Farming, Fishing, and Forestry Workers, All Other	66	84	18	27.3%	2	2	4	NA	Moderate-term on-the-job training
45-2092	Farmworkers and Laborers, Crop, Nursery, and Greenhouse	1,379	1,611	232	16.8%	23	39	62	\$9.61	Short-term on-the-job training
45-2093	Farmworkers, Farm and Ranch Animals	505	641	136	26.9%	14	14	28	\$8.88	Short-term on-the-job training
27-1022	Fashion Designers	13	13	0	0.0%	0	0	0	\$29.52	Bachelor's degree
47-4031	Fence Erectors	150	142	-8	-5.3%	0	2	2	\$10.13	Moderate-term on-the-job training
51-2091	Fiberglass Laminators and Fabricators	539	450	-89	-16.5%	0	14	14	\$16.24	Moderate-term on-the-job training
43-4071	File Clerks	711	686	-25	-3.5%	0	21	21	\$9.20	Short-term on-the-job training
27-4032	Film and Video Editors	118	149	31	26.3%	3	3	6	\$13.20	Bachelor's degree
13-2051	Financial Analysts	345	411	66	19.1%	7	5	12	\$28.29	Bachelor's degree
13-2061	Financial Examiners	65	64	-1	-1.5%	0	2	2	\$29.74	Bachelor's degree
11-3031	Financial Managers	2,546	2,897	351	13.8%	35	37	72	\$31.88	Bachelor's degree plus work experience
13-2099	Financial Specialists, All Other	474	523	49	10.3%	5	8	13	\$22.62	Bachelor's degree
43-4999	Financial, Information, and Record Clerks, All Other	1,060	1,128	68	6.4%	7	17	24	\$13.42	Short-term on-the-job training
27-1013	Fine Artists, Including Painters, Sculptors, and Illustrators	646	711	65	10.1%	7	14	21	\$23.66	Long-term on-the-job training
33-2011	Fire Fighters	1,770	2,294	524	29.6%	52	- 51	103	\$13.62	Long-term on-the-job training
33-2021	Fire Inspectors and Investigators	58	61	3	5.2%	0	2	2	\$16.07	Work experience in a related occupation
47-1011	First-Line Supervisors/Managers of Construction Trades and Extraction Workers	3,249	3,360	111	3.4%	11	55	66	\$21.05	Work experience in a related occupation
33-1011	First-Line Supervisors/Managers of Correctional Officers	65	76	11	16.9%	1	2	3	\$19.36	Work experience in a related occupation
45-1011	First-Line Supervisors/Managers of Farming, Fishing, and Forestry Workers	327	372	45	13.8%	5	8	13	\$16.70	Work experience in a related occupation
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention Workers	159	201	42	26.4%	4	7	11	\$19.66	Work experience in a related occupation
35-1012	First-Line Supervisors/Managers of Food Preparation and Serving Workers	3,324	3,716	392	11.8%	39	79	118	\$11.45	Work experience in a related occupation

soc	Occupation	Ave Emplo	rage yment		nge in oyment	Average	Annual O	penings	2003	
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and Material Movers, Hand	659	731	72	10.9%	7	16	23	\$17.56	Work experience in a related occupation
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial Workers	984	1,112	128	13.0%	13	23	36	\$14.16	Work experience in a related occupation
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service & Groundskeeping Workers	708	868	160	22.6%	16	7	23	\$16.10	Work experience in a related occupation
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and Repairers	2,080	2,288	208	10.0%	21	52	73	\$23.58	Work experience in a related occupation
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	1,791	2,101	310	17.3%	31	34	65	\$24.47	Work experience in a related occupation
43-1011	First-Line Supervisors/Managers of Office and Administrative Support Workers	5,749	5,932	183	3.2%	18	123	141	\$17.31	Work experience in a related occupation
39-1021	First-Line Supervisors/Managers of Personal Service Workers	745	1,020	275	36.9%	28	19	47	\$13.67	Work experience in a related occupation
33-1012	First-Line Supervisors/Managers of Police and Detectives	423	513	90	21.3%	9	14	23	\$24.00	Work experience in a related occupation
51-1011	First-Line Supervisors/Managers of Production and Operating Workers	3,534	3,377	-157	-4.4%	0	74	74	\$21.20	Work experience in a related occupation
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	9,519	10,950	1,431	15.0%	143	171	314	\$15.77	Work experience in a related occupation
53-1031	First-Line Supervisors/Managers of Transportation & Material-Moving Machine Operators	840	894	54	6.4%	5	20	25	\$19.77	Work experience in a related occupation
33-1099	First-Line Supervisors/Managers, Protective Service Workers, All Other	252	260	8	3.2%	1	6	7	\$17.70	Work experience in a related occupation
33-3031	Fish and Game Wardens	129	131	2	1.6%	0	3	3	\$17.81	Long-term on-the-job training
45-3011	Fishers and Related Fishing Workers	2,195	2,386	191	8.7%	19	63	82	NA	Moderate-term on-the-job training
39-9031	Fitness Trainers and Aerobics Instructors	861	1,197	336	39.0%	34	20	54	\$11.74	Postsecondary vocational award
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	16	16	0	0.0%	0	o	0	NA	Moderate-term on-the-job training
47-2043	Floor Sanders and Finishers	123	110	-13	-10.6%	0	2	2	\$11.76	Moderate-term on-the-job training
27-1023	Floral Designers	474	540	66	13.9%	7	6	13	\$11.51	Moderate-term on-the-job training
51-3091	Food and Tobacco Roasting, Baking, and Drying Machine Operators and Tenders	51	51	0	0.0%	0	2	2	\$11.56	Short-term on-the-job training
51-3092	Food Batchmakers	237	275	38	16.0%	4	6	10	\$12.01	Short-term on-the-job training
51-3093	Food Cooking Machine Operators and Tenders	64	75	11	17.2%	1	2	3	\$8.85	Short-term on-the-job training
35-9099	Food Preparation and Serving Related Workers, All Other	89	98	9	10.1%	1	3	4	\$9.18	Short-term on-the-job training
35-2021	Food Preparation Workers	6,228	7,357	1,129	18.1%	113	220	333	\$8.60	Short-term on-the-job training
35-3041	Food Servers, Nonrestaurant	1,092	1,165	73	6.7%	7	37	44	\$8.34	Short-term on-the-job training
11-9051	Food Service Managers	1,980	2,228	248	12.5%	25	32	57	\$18.51	Work experience in a related occupation
25-1124	Foreign Language and Literature Teachers, Postsecondary	80	105	25	31.3%	3	2	5	\$47,790	Master's degree
19-4093	Forest and Conservation Technicians	56	60	4	7.1%	0	1	1	\$13.75	Associate degree
45-4011	Forest and Conservation Workers	72	91	19	26.4%	2	2	4	NA	Moderate-term on-the-job training
33-2022	Forest Fire Inspectors and Prevention Specialists	91	90	-1	-1.1%	0	3	3	\$18.57	Work experience in a related occupation
19-1032	Foresters	196	218	22	11.2%	2	6	8	\$19.52	Bachelor's degree
25-1043	Forestry and Conservation Science Teachers, Postsecondary	42	52	10	23.8%	1	1	2	\$62,932	Doctoral degree

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soc	Occupation	Emplo	_		oyment	Average	Annual O	penings	2003	Education/Training Requirement
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	reducation I I aming requirement
39-4021	Funeral Attendants	157	199	42	26.8%	4	3	7	\$10.37	Short-term on-the-job training
11-9061	Funeral Directors	190	222	32	16.8%	3	5	8	\$26.90	Associate degree
51-9051	Furnace, Kiln, Oven, Drier, and Kettle Operators and Tenders	210	167	-43	-20.5%	0	5	5	\$19.27	Moderate-term on-the-job training
51-7021	Furniture Finishers	189	172	-17	-9.0%	0	4	4	\$10.91	Long-term on-the-job training
39-3012	Gaming and Sports Book Writers and Runners	123	142	19	15.4%	2	4	6	\$7.70	Postsecondary vocational award
39-3199	Gaming Workers, All Other	134	149	15	11.2%	2	4	6	NA	Moderate-term on-the-job training
11-1021	General and Operations Managers	11,288	12,918	1,630	14.4%	163	213	376	\$33.70	Bachelor's degree plus work experience
25-1064	Geography Teachers, Postsecondary	22	27	5	22.7%	1	1	2	\$46,271	Doctoral degree
19-4041	Geological and Petroleum Technicians	10	12	2	20.0%	0	0	0	NA	Associate degree
19-2042	Geoscientists, Except Hydrologists and Geographers	52	57	5	9.6%	1	1	2	\$23.48	Master's degree
47-2121	Glaziers	96	100	4	4.2%	0	2	2	\$13.45	Long-term on-the-job training
45-2041	Graders and Sorters, Agricultural Products	286	297	11	3.8%	1	8	9	\$9.77	Work experience in a related occupation
25-1191	Graduate Teaching Assistants	861	1,088	227	26.4%	23	19	42	\$15,890	Bachelor's degree
27-1024	Graphic Designers	605	711	106	17.5%	11	8	19	\$16.84	Bachelor's degree
51-9022	Grinding and Polishing Workers, Hand	101	102	1	1.0%	0	3	3	\$10.89	Moderate-term on-the-job training
51-4033	Grinding/Lapping/Polishing&Buffing Machine Tool Setters/Operators/Tenders, Metal&Plastic	250	225	-25	-10.0%	0	5	5	\$14.95	Moderate-term on-the-job training
39-5012	Hairdressers, Hairstylists, and Cosmetologists	3,037	3,466	429	14.1%	43	59	102	\$10.63	Postsecondary vocational award
47-4041	Hazardous Materials Removal Workers	209	253	44	21.1%	4	6	10	\$16.00	Moderate-term on-the-job training
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	135	138	3	2.2%	0	3	3	\$25.05	Bachelor's degree
29-1199	Health Diagnosing and Treating Practitioners, All Other	111	139	28	25.2%	3	2	5	\$53.38	Bachelor's degree
21-1091	Health Educators	358	442	84	23.5%	8	6	14	\$23.65	Master's degree
29-9199	Health Professionals and Technicians, All Other	416	519	103	24.8%	10	8	18	\$21.77	Postsecondary vocational award
25-1071	Health Specialties Teachers, Postsecondary	445	558	113	25.4%	11	10	21	\$49,280	Master's degree
31-9099	Healthcare Support Workers, All Other	460	608	148	32.2%	15	9	24	\$12.45	Short-term on-the-job training
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	2,080	2,478	398	19.1%	40	28	68	\$15.65	Long-term on-the-job training
47-3019	Helpers, Construction Trades, All Other	70	65	-5	-7.1%	0	3	3	\$10.40	Short-term on-the-job training
47-3011	Helpers-Brickmasons, Blockmasons, Stonemasons, and Tile and Marble Setters	259	227	-32	-12.4%	0	11	11	\$12.73	Short-term on-the-job training
47-3012	HelpersCarpenters	498	509	11	2.2%	1	21	22	\$10.76	Short-term on-the-job training
47-3013	HelpersElectricians	585	561	-24	-4.1%	0	24	24	\$12.38	Short-term on-the-job training
47-5081	HelpersExtraction Workers	36	36	0	0.0%	0	1	1	\$9.96	Short-term on-the-job training
49-9098	HelpersInstallation, Maintenance, and Repair Workers	381	449	68	17.8%	7	13	20	\$11.85	Short-term on-the-job training

soc	Osmastica	1	rage yment		nge in oyment	Average	Annual C	penings	2003	
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
47-3014	Helpers-Painters, Paperhangers, Plasterers, and Stucco Masons	68	68	0	0.0%	0	3	3	\$10.26	Short-term on-the-job training
47-3015	Helpers-Pipelayers, Plumbers, Pipefitters, and Steamfitters	196	176	-20	-10.2%	0	8	8	\$11.12	Short-term on-the-job training
51-9198	HelpersProduction Workers	1,616	1,421	-195	-12.1%	0	45	45	\$11.05	Short-term on-the-job training
47-3016	HelpersRoofers	82	82	0	0.0%	0	3	3	\$10.08	Short-term on-the-job training
47-4051	Highway Maintenance Workers	2,091	2,293	202	9.7%	20	30	50	\$12.60	Moderate-term on-the-job training
25-1125	History Teachers, Postsecondary	89	115	26	29.2%	3	2	5	\$51,970	Doctoral degree
49-9031	Home Appliance Repairers	208	231	23	11.1%	2	5	7	\$11.98	Long-term on-the-job training
31-1011	Home Health Aides	4,991	7,018	2,027	40.6%	203	65	268	\$9.14	Short-term on-the-job training
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	1,513	1,741	228	15.1%	23	48	71	\$7.98	Short-term on-the-job training
43-4081	Hotel, Motel, and Resort Desk Clerks	1,418	1,699	281	19.8%	28	64	92	\$8.85	Short-term on-the-job training
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	592	664	72	12.2%	7	13	20	\$14.38	Short-term on-the-job training
11-3040	Human Resources Managers	918	1,025	107	11.7%	11	16	27	\$29.96	Bachelor's degree plus work experience
45-3021	Hunters and Trappers	11	18	7	63.6%	1	1	2	NA	Moderate-term on-the-job training
19-2043	Hydrologists	58	75	17	29.3%	2	1	3	\$28.30	Master's degree
17-3026	Industrial Engineering Technicians	256	228	-28	-10.9%	0	5	5	\$21.43	Associate degree
17-2112	Industrial Engineers	459	426	-33	-7.2%	0	11	11	\$29.52	Bachelor's degree
49-9041	Industrial Machinery Mechanics	808	787	-21	-2.6%	0	16	16	\$18.66	Long-term on-the-job training
11-3051	Industrial Production Managers	736	682	-54	-7.3%	0	14	14	\$33.38	Bachelor's degree
53-7051	Industrial Truck and Tractor Operators	2,742	2,723	-19	-0.7%	0	52	52	\$12.86	Short-term on-the-job training
19-3032	Industrial-Organizational Psychologists	30	36	6	20.0%	1	1	2	NA	Master's degree
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	1,781	1,694	-87	-4.9%	0	41	41	\$13.67	Moderate-term on-the-job training
49-9099	Installation, Maintenance, and Repair Workers, All Other	1,095	1,228	133	12.1%	13	25	38	\$16.07	Moderate-term on-the-job training
25-9031	Instructional Coordinators	308	410	102	33.1%	10	5	15	\$21.49	Master's degree
47-2130	Insulation Workers	445	415	-30	-6.7%	0	13	13	\$14.72	Moderate-term on-the-job training
13-1032	Insurance Appraisers, Auto Damage	50	55	5	10.0%	1	1	2	\$17.92	Long-term on-the-job training
43-9041	Insurance Claims and Policy Processing Clerks	1,154	1,126	-28	-2.4%	0	19	19	\$13.06	Moderate-term on-the-job training
41-3021	Insurance Sales Agents	3,200	3,291	91	2.8%	9	77	86	\$23.05	Bachelor's degree
13-2053	Insurance Underwriters	567	594	27	4.8%	3	10	13	\$22.07	Bachelor's degree
27-1025	Interior Designers	187	216	29	15.5%	3	3	6	\$17.76	Bachelor's degree
29-1063	Internists, General	291	355	64	22.0%	6	4	10	\$66.46	First Professional degree
27-3091	Interpreters and Translators	178	239	61	34.3%	6	2	8	\$18.68	Long-term on-the-job training

soc	Occupation	Ave Emplo	rage yment		nge in oyment	Average	Annual O	penings	2003	
Code	Оссирании	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
43-4111	Interviewers, Except Eligibility and Loan	573	756	183	31.9%	18	15	33	\$10.82	Short-term on-the-job training
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	10,582	11,821	1,239	11.7%	124	201	325	\$10.29	Short-term on-the-job training
51-9071	Jewelers and Precious Stone and Metal Workers	192	221	29	15.1%	3	4	7	\$12.54	Postsecondary vocational award
51-5021	Job Printers	111	120	9	8.1%	1	3	4	\$14.52	Long-term on-the-job training
23-1023	Judges, Magistrate Judges, and Magistrates	82	84	2	2.4%	0	1	1	\$43.54	Bachelor's degree plus work experience
25-2012	Kindergarten Teachers, Except Special Education	1,183	1,331	148	12.5%	15	14	29	\$38,470	Bachelor's degree
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	7,942	7,596	-346	-4.4%	0	260	260	\$10.05	Short-term on-the-job training
17-1012	Landscape Architects	90	101	11	12.2%	1	1	2	NA	Bachelor's degree
37-3011	Landscaping and Groundskeeping Workers	5,198	6,423	1,225	23.6%	123	113	236	\$9.94	Short-term on-the-job training
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	231	204	-27	-11.7%	0	4	4	\$15.81	Moderate-term on-the-job training
51-6011	Laundry and Dry-Cleaning Workers	1,171	1,249	78	6.7%	8	32	40	\$8.54	Moderate-term on-the-job training
23-2092	Law Clerks	74	70	-4	-5.4%	0	1	1	\$17.79	Bachelor's degree
25-1112	Law Teachers, Postsecondary	42	55	13	31.0%	1	1	2	\$80,020	First Professional degree
23-1011	Lawyers	2,727	3,026	299	11.0%	30	35	65		First Professional degree
23-9099	Legal and Related Workers, All Other	189	242	53	28.0%	5	2	7	\$19.66	Bachelor's degree
43-6012	Legal Secretaries	1,037	1,066	29	2.8%	3	20	23	\$15.96	Postsecondary vocational award
11-1031	Legislators	364	398	34	9.3%	3	5	8	\$11.83	Bachelor's degree plus work experience
25-4021	Librarians	692	732	40	5.8%	4	17	21	\$19.50	Master's degree
43-4121	Library Assistants, Clerical	279	339	60	21.5%	6	11	17	\$9.50	Short-term on-the-job training
25-4031	Library Technicians	878	996	118	13.4%	12	32	44		Short-term on-the-job training
25-9199	Library, Museum, Training, and Other Education Workers, All Other	81	97	16	19.8%	2	1	3		Bachelor's degree
29-2061	Licensed Practical and Licensed Vocational Nurses	2,294	2,625	331	14.4%	33	50	83		Postsecondary vocational award
19-1099	Life Scientists, All Other	169	236	67	39.6%	7	3	10		Bachelor's degree
19-4099	Life, Physical, and Social Science Technicians, All Other	235	252	17	7.2%	2		8		Associate degree
13-2071	Loan Counselors	96	106	10	10.4%	1	2	3	\$18.57	Bachelor's degree
43-4131	Loan Interviewers and Clerks	648	518	-130	-20.1%	0	9	9		Short-term on-the-job training
13-2072	Loan Officers	1,069	1,193	124	11.6%	12	17	29		Bachelor's degree
49-9094	Locksmiths and Safe Repairers	113	120	7	6.2%	1	4	5		Moderate-term on-the-job training
53-4011	Locomotive Engineers	104	105	1	1.0%	0	3	3		Work experience in a related occupation
11-9081	Lodging Managers	613	640	27	4.4%	3	10	13		Work experience in a related occupation
45-4023	Log Graders and Scalers	152	136	-16	-10.5%	0	3			Moderate-term on-the-job training

soc	Occupation	Ave Emplo	~ 1		nge in oyment	Average	Annual O	penings	2003	
Code	Оссирации	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
45-4022	Logging Equipment Operators	1,682	1,624	-58	-3.4%	0	31	31	\$12.69	Moderate-term on-the-job training
53-7063	Machine Feeders and Offbearers	1,219	1,023	-196	-16.1%	0	33	33	\$10.91	Short-term on-the-job training
51-4041	Machinists	2,371	2,217	-154	-6.5%	0	55	55	\$16.62	Long-term on-the-job training
37-2012	Maids and Housekeeping Cleaners	8,128	9,205	1,077	13.3%	108	171	279	\$8.57	Short-term on-the-job training
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	752	707	-4 5	-6.0%	0	23	23	\$10.67	Short-term on-the-job training
49-9042	Maintenance and Repair Workers, General	5,426	6,080	654	12.1%	65	104	169	\$14.52	Moderate-term on-the-job training
49-9043	Maintenance Workers, Machinery	435	389	-4 6	-10.6%	0	10	10	\$17.24	Short-term on-the-job training
13-1111	Management Analysts	1,760	2,048	288	16.4%	29	24	53	\$28.40	Bachelor's degree plus work experience
11-9199	Managers, All Other	3,259	3,553	294	9.0%	29	64	93	\$31.10	Work experience in a related occupation
39-5092	Manicurists and Pedicurists	19	23	4	21.1%	0	0	0	\$9.60	Postsecondary vocational award
49-9095	Manufactured Building and Mobile Home Installers	184	257	73	39.7%	7	5	12	\$11.77	Moderate-term on-the-job training
17-2121	Marine Engineers and Naval Architects	70	64	-6	-8.6%	0	3	3	\$31.30	Bachelor's degree
19-3021	Market Research Analysts	224	251	27	12.1%	3	6	9	\$22.04	Master's degree
11-2021	Marketing Managers	892	1,050	158	17.7%	16	17	33	\$34.29	Bachelor's degree plus work experience
21-1013	Marriage and Family Therapists	52	67	15	28.8%	2	1	3	\$20.04	Master's degree
31-9011	Massage Therapists	403	596	193	47.9%	19	8	27	\$16.76	Postsecondary vocational award
53-7199	Material Moving Workers, All Other	70	70	0	0.0%	0	2	2	NA	Moderate-term on-the-job training
17-2131	Materials Engineers	40	40	0	0.0%	0	1	1	\$28.81	Bachelor's degree
25-1022	Mathematical Science Teachers, Postsecondary	232	288	56	24.1%	6	5	11	\$49,270	Master's degree
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	516	489	-27	-5.2%	0	11	11	\$9.93	Short-term on-the-job training
49-9011	Mechanical Door Repairers	52	63	11	21.2%	1	1	2	\$12.33	Moderate-term on-the-job training
17-3013	Mechanical Drafters	799	654	-145	-18.1%	0	23	23	\$21.97	Postsecondary vocational award
17-3027	Mechanical Engineering Technicians	71	67	-4	-5.6%	0	2	2	\$20.05	Associate degree
17-2141	Mechanical Engineers	710	686	-24	-3.4%	0	19	19	\$30.11	Bachelor's degree
27-4099	Media and Communication Equipment Workers, All Other	40	53	13	32.5%	1	1	2	\$18.03	Moderate-term on-the-job training
27-3099	Media and Communication Workers, All Other	161	180	19	11.8%	2	2	4	NA	Long-term on-the-job training
29-2012	Medical and Clinical Laboratory Technicians	588	727	139	23.6%	14		30	\$14.77	Associate degree
29-2011	Medical and Clinical Laboratory Technologists	732	942	210	28.7%	21	20	41	\$20.13	Bachelor's degree
11-9111	Medical and Health Services Managers	1,440	1,878	438	30.4%	44	28	72		Bachelor's degree plus work experience
21-1022	Medical and Public Health Social Workers	671	911	240	35.8%	24	12	36		Bachelor's degree
51-9082	Medical Appliance Technicians	34	36	2	5.9%	0		1		Long-term on-the-job training

soc	Occupation	Ave Emplo	rage yment	Change in Employment		Average Annual Openings			Average Annual Openings		Average Annual Openings		Average Annual Openings		Average Annual Openings		Average Annual Openings		Average Annual Openings		Average Annual Openings		Education/Training Despise
Code	Оссирации	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement													
31-9092	Medical Assistants	1,572	2,583	1,011	64.3%	101	29	130	\$12.42	Moderate-term on-the-job training													
31-9093	Medical Equipment Preparers	190	225	35	18.4%	4	4	8	\$11.61	Short-term on-the-job training													
49-9062	Medical Equipment Repairers	78	91	13	16.7%	1	2	3	\$19.38	Associate degree													
29-2071	Medical Records and Health Information Technicians	886	1,370	484	54.6%	48	13	61	\$11.29	Associate degree													
19-1042	Medical Scientists, Except Epidemiologists	75	96	21	28.0%	2	1	3	\$35.29	Doctoral degree													
43-6013	Medical Secretaries	2,064	2,411	347	16.8%	35	40	75	\$12.76	Postsecondary vocational award													
31-9094	Medical Transcriptionists	680	853	173	25.4%	17	13	30	\$13.52	Postsecondary vocational award													
13-1121	Meeting and Convention Planners	128	156	28	21.9%	3	3	6	\$16.45	Bachelor's degree													
21-1023	Mental Health and Substance Abuse Social Workers	1,375	1,918	543	39.5%	54	24	78	\$18.50	Master's degree													
21-1014	Mental Health Counselors	858	1,101	243	28.3%	24	20	44	\$15.95	Master's degree													
27-1026	Merchandise Displayers and Window Trimmers	334	457	123	36.8%	12	5	17	\$8.66	Moderate-term on-the-job training													
51-4199	Metal Workers and Plastic Workers, All Other	136	139	3	2.2%	0	3	3	\$16.59	Moderate-term on-the-job training													
43-5041	Meter Readers, Utilities	275	250	-25	-9.1%	0	9	9	\$14.32	Short-term on-the-job training													
19-1022	Microbiologists	60	69	9	15.0%	1	2	3	\$20.85	Doctoral degree													
25-2022	Middle School Teachers, Except Special and Vocational Education	3,672	3,508	-164	-4.5%	0	81	81	\$39,620	Bachelor's degree													
49-9044	Millwrights	749	597	-152	-20.3%	0	18	18	\$20.24	Long-term on-the-job training													
47-5049	Mining Machine Operators, All Other	22	22	0	0.0%	0	1	1	NA	Moderate-term on-the-job training													
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	415	329	-86	-20.7%	0	11	11	\$16.15	Moderate-term on-the-job training													
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	770	829	59	7.7%	6	17	23	\$16.10	Postsecondary vocational award													
41-9012	Models	17	21	4	23.5%	0	0	0	NA	Moderate-term on-the-job training													
51-9195	Molders, Shapers, and Casters, Except Metal and Plastic	154	139	-15	-9.7%	0	4	4	\$10.76	Moderate-term on-the-job training													
51-4072	Molding, Coremaking & Casting Machine Setters, Operators & Tenders, Metal & Plastic	312	248	-64	-20.5%	0	8	8	\$11.44	Moderate-term on-the-job training													
39-3021	Motion Picture Projectionists	93	105	12	12.9%	1	5	6	\$8.04	Short-term on-the-job training													
53-3099	Motor Vehicle Operators, All Other	509	627	118	23.2%	12	7	19	\$7.97	Short-term on-the-job training													
49-3051	Motorboat Mechanics	528	699	171	32.4%	17	13	30	\$15.70	Long-term on-the-job training													
53-5022	Motorboat Operators	33	41	8	24.2%	1	1	2	\$17.14	Moderate-term on-the-job training													
49-3052	Motorcycle Mechanics	45	65	20	44.4%	2	1	3	\$13.04	Long-term on-the-job training													
27-1014	Multi-Media Artists and Animators	332	337	5	1.5%	1	7	8	\$19.40	Bachelor's degree													
51-4081	Multiple Machine Tool Setters, Operators, and Tenders, Metal and Plastic	251	238	-13	-5.2%	0	7	7	\$13.49	Moderate-term on-the-job training													
27-2041	Music Directors and Composers	216	252	36	16.7%	4	5	9	NA	Bachelor's degree plus work experience													
27-2042	Musicians and Singers	600	740	140	23.3%	14	13	27	NA	Long-term on-the-job training													

soc	Occupation	1	rage oyment		nge in oyment	Average	Annual (penings	2003	Education (Training Description
Code	оссирации	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
11-9121	Natural Sciences Managers	212	231	19	9.0%	2	4	6	\$33.86	Bachelor's degree plus work experience
15-1071	Network and Computer Systems Administrators	798	949	151	18.9%	15	9	24	\$24.14	Bachelor's degree
15-1081	Network Systems and Data Communications Analysts	371	492	121	32.6%	12	4	16	\$26.12	Bachelor's degree
43-4141	New Accounts Clerks	413	445	32	7.7%	3	10	13	\$11.85	Work experience in a related occupation
27-3020	News Analysts, Reporters and Correspondents	341	378	37	10.9%	4	8	12	\$15.37	Bachelor's degree plus work experience
39-2021	Nonfarm Animal Caretakers	359	461	102	28.4%	10	9	19	\$8.48	Short-term on-the-job training
17-2161	Nuclear Engineers	216	241	25	11.6%	3	6	9	\$33.49	Bachelor's degree
29-2033	Nuclear Medicine Technologists	67	83	16	23.9%	2	1	3	\$24.96	Associate degree
51-4012	Numerical Tool and Process Control Programmers	224	235	11	4.9%	1	4	5	\$20.91	Long-term on-the-job training
31-1012	Nursing Aides, Orderlies, and Attendants	9,061	10,482	1,421	15.7%	142	119	261	\$9.97	Short-term on-the-job training
25-1072	Nursing Instructors and Teachers, Postsecondary	155	195	40	25.8%	4	4	8	\$50,160	Doctoral degree
29-1064	Obstetricians and Gynecologists	134	165	31	23.1%	3	2	5	\$88.55	First Professional degree
29-9010	Occupational Health and Safety Specialists and Technicians	252	285	33	13.1%	3	6	9	\$23.92	Bachelor's degree
31-2012	Occupational Therapist Aides	72	103	31	43.1%	3	1	4	\$12.29	Short-term on-the-job training
31-2011	Occupational Therapist Assistants	93	121	28	30.1%	3	1	4	\$17.02	Associate degree
29-1122	Occupational Therapists	561	709	148	26.4%	15	8	23	\$24.36	Bachelor's degree
43-9061	Office Clerks, General	11,981	12,323	342	2.9%	34	265	299	\$10.77	Short-term on-the-job training
43-9071	Office Machine Operators, Except Computer	295	265	-30	-10.2%	0	7	7	\$10.49	Short-term on-the-job training
47-2073	Operating Engineers and Other Construction Equipment Operators	1,653	1,720	67	4.1%	7	43	50	\$14.18	Moderate-term on-the-job training
15-2031	Operations Research Analysts	89	91	2	2.2%	0	2	2	\$27.64	Master's degree
51-9083	Ophthalmic Laboratory Technicians	66	68	2	3.0%	0	1	1	\$10.42	Moderate-term on-the-job training
29-2081	Opticians, Dispensing	155	194	39	25.2%	4	3	7	\$14.85	Long-term on-the-job training
29-1041	Optometrists	171	222	51	29.8%	5	5	10	\$38.29	First Professional degree
43-4151	Order Clerks	1,207	1,141	-66	-5.5%	0	27	27	\$12.13	Short-term on-the-job training
29-2091	Orthotists and Prosthetists	27	29	2	7.4%	0	0	0	\$23.05	Bachelor's degree
49-3053	Outdoor Power Equipment and Other Small Engine Mechanics	311	399	88	28.3%	9	8	17	\$12.14	Moderate-term on-the-job training
51-9111	Packaging and Filling Machine Operators and Tenders	1,654	1,651	-3	-0.2%	0	33	33	\$11.97	Short-term on-the-job training
53-7064	Packers and Packagers, Hand	3,386	3,613	227	6.7%	23	63	86	\$8.69	Short-term on-the-job training
47-2141	Painters, Construction and Maintenance	3,030	3,017	-13	-0.4%	0	46	46		Moderate-term on-the-job training
51-9122	Painters, Transportation Equipment	351	435	84	23.9%	8	9	17		Moderate-term on-the-job training
51-9123	Painting, Coating, and Decorating Workers	163	164	1	0.6%	0	4	4	\$9.56	Short-term on-the-job training

SOC	Occupation	Average Employment			nge in oyment	Average	Annual O	penings	2003	Education/Training Requirement
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
51-9196	Paper Goods Machine Setters, Operators, and Tenders	1,013	822	-191	-18.9%	0	22	22	\$17.79	Moderate-term on-the-job training
47-2142	Paperhangers	131	118	-13	-9.9%	0	2	2	\$13.63	Moderate-term on-the-job training
23-2011	Paralegals and Legal Assistants	888	1,006	118	13.3%	12	7	19	\$16.76	Associate degree
33-3041	Parking Enforcement Workers	47	56	9	19.1%	1	1	2	\$12.25	Short-term on-the-job training
53-6021	Parking Lot Attendants	76	79	3	3.9%	0	2	2	\$9.06	Short-term on-the-job training
41-2022	Parts Salespersons	1,689	1,703	14	0.8%	1	48	49	\$12.20	Moderate-term on-the-job training
47-2071	Paving, Surfacing, and Tamping Equipment Operators	368	395	27	7.3%	3	5	8	\$13.66	Moderate-term on-the-job training
43-3051	Payroll and Timekeeping Clerks	959	937	-22	-2.3%	0	25	25	\$13.13	Moderate-term on-the-job training
29-1065	Pediatricians, General	142	175	33	23.2%	3	2	5	\$63.40	First Professional degree
39-9021	Personal and Home Care Aides	4,853	7,502	2,649	54.6%	265	78	343	\$8.62	Short-term on-the-job training
39-9099	Personal Care and Service Workers, All Other	523	660	137	26.2%	14	11	25	\$15.98	Short-term on-the-job training
13-2052	Personal Financial Advisors	607	925	318	52.4%	32	8	40	\$32.65	Bachelor's degree
37-2021	Pest Control Workers	120	135	15	12.5%	2	2	4	\$13.26	Moderate-term on-the-job training
37-3012	Pesticide Handlers, Sprayers, and Applicators, Vegetation	116	106	-10	-8.6%	0	3	3	NA	Moderate-term on-the-job training
29-1051	Pharmacists	918	1,177	259	28.2%	26	18	44	\$39.78	First Professional degree
31-9095	Pharmacy Aides	82	90	8	9.8%	1	2	3	\$8.19	Short-term on-the-job training
29-2052	Pharmacy Technicians	1,051	1,353	302	28.7%	30	14	44	\$10.89	Moderate-term on-the-job training
25-1126	Philosophy and Religion Teachers, Postsecondary	143	193	50	35.0%	5	3	8	\$46,050	Doctoral degree
27-4021	Photographers	396	464	68	17.2%	7	8	15	\$11.92	Long-term on-the-job training
51-9131	Photographic Process Workers	179	174	-5	-2.8%	0	4	4	\$10.90	Moderate-term on-the-job training
51-9132	Photographic Processing Machine Operators	311	289	-22	-7.1%	0	8	8	\$9.29	Short-term on-the-job training
19-2099	Physical Scientists, All Other	53	55	2	3.8%	0	1	1	\$22.96	Bachelor's degree
31-2022	Physical Therapist Aides	135	189	54	40.0%	5	2	7	\$11.46	Short-term on-the-job training
31-2021	Physical Therapist Assistants	317	480	163	51.4%	16	5	21	\$17.79	Associate degree
29-1123	Physical Therapists	1,047	1,392	345	33.0%	35	10	45	\$26.17	Master's degree
29-1071	Physician Assistants	624	967	343	55.0%	34	10	44	\$37.70	Bachelor's degree
29-1069	Physicians and Surgeons, All Other	1,033	1,243	210	20.3%	21	14	35	\$59.55	First Professional degree
19-2012	Physicists	44	52	8	18.2%	1	1	2		Doctoral degree
25-1054	Physics Teachers, Postsecondary	74	94	20	27.0%	2	2	4	\$61,860	Doctoral degree
47-2151	Pipelayers	290	301	11	3.8%	1	7	8	\$14.17	Moderate-term on-the-job training
51-8099	Plant and System Operators, All Other	26	26	0	0.0%	0	1	1	NA	Long-term on-the-job training

soc	Occupation	Ave Emplo	rage yment		nge in oyment	Average	Annual O	penings	2003	
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
47-2161	Plasterers and Stucco Masons	13	13	0	0.0%	0	0.	0	\$20.50	Long-term on-the-job training
51-4193	Plating and Coating Machine Setters, Operators, and Tenders, Metal and Plastic	141	131	-10	-7.1%	0	3	3	\$14.32	Moderate-term on-the-job training
47-2152	Plumbers, Pipefitters, and Steamfitters	2,459	2,386	-73	-3.0%	0	57	57	\$18.75	Long-term on-the-job training
29-1081	Podiatrists	130	164	34	26.2%	3	3	6	\$38.36	First Professional degree
33-3051	Police and Sheriff's Patrol Officers	2,060	2,743	683	33.2%	68	53	121	\$16.10	Long-term on-the-job training
43-5031	Police, Fire, and Ambulance Dispatchers	654	773	119	18.2%	12	14	26	\$13.12	Moderate-term on-the-job training
25-1065	Political Science Teachers, Postsecondary	85	111	26	30.6%	3	2	5	\$58,010	Doctoral degree
43-5051	Postal Service Clerks	654	592	-62	-9.5%	0	17	17	\$19.98	Short-term on-the-job training
43-5052	Postal Service Mail Carriers	1,668	1,512	-156	-9.4%	0	52	52	\$19.55	Short-term on-the-job training
43-5053	Postal Service Mail Sorters, Processors, and Processing Machine Operators	1,273	1,039	-234	-18.4%	0	34	34	\$16.90	Short-term on-the-job training
11-9131	Postmasters and Mail Superintendents	390	353	-37	-9.5%	0	7	7	\$23.33	Work experience in a related occupation
25-1199	Postsecondary Teachers, All Other	579	723	144	24.9%	14	13	27	\$40,520	Doctoral degree
51-8012	Power Distributors and Dispatchers	128	122	-6	-4.7%	0	3	3	\$24.49	Long-term on-the-job training
51-8013	Power Plant Operators	232	219	-13	-5.6%	0	6	6	\$22.73	Long-term on-the-job training
49-9069	Precision Instrument and Equipment Repairers, All Other	171	138	-33	-19.3%	0	5	5	NA	Long-term on-the-job training
51-5022	Prepress Technicians and Workers	360	310	-50	-13.9%	0	8	8	\$14.97	Long-term on-the-job training
25-2011	Preschool Teachers, Except Special Education	1,726	2,018	292	16.9%	29	21	50	\$10.75	Postsecondary vocational award
51-6021	Pressers, Textile, Garment, and Related Materials	141	134	-7	-5.0%	0	2.	2	\$9.50	Short-term on-the-job training
51-5023	Printing Machine Operators	866	872	6	0.7%	1	20	21	\$13.65	Moderate-term on-the-job training
33-9021	Private Detectives and Investigators	161	188	27	16.8%	3	3	6	\$17.21	Work experience in a related occupation
21-1092	Probation Officers and Correctional Treatment Specialists	432	481	49	11.3%	5	8	13	\$15.18	Bachelor's degree
43-3061	Procurement Clerks	225	208	-17	-7.6%	0	6	6	\$14.63	Short-term on-the-job training
27-2012	Producers and Directors	229	258	29	12.7%	3	3	6	\$34,340	Bachelor's degree plus work experience
51-9199	Production Workers, All Other	2,737	2,308	-429	-15.7%	0	65	65	\$13.79	Moderate-term on-the-job training
43-5061	Production, Planning, and Expediting Clerks	1,110	1,098	-12	-1.1%	0	27	27	\$18.70	Short-term on-the-job training
43-9081	Proofreaders and Copy Markers	145	134	-11	-7.6%	0	3	3	\$11.88	Short-term on-the-job training
11-9141	Property, Real Estate, and Community Association Managers	736	871	135	18.3%	14	14	28		Bachelor's degree
33-9099	Protective Service Workers, All Other	658	741	83	12.6%	8	46	54	\$12.21	Short-term on-the-job training
31-1013	Psychiatric Aides	468	528	60	12.8%	6	6	12	\$12.03	Short-term on-the-job training
29-2053	Psychiatric Technicians	309	350	41	13.3%	4	4	8		Moderate-term on-the-job training
29-1066	Psychiatrists	198	242	44	22.2%	4	3	7	\$74.16	First Professional degree

soc	Occupation	Ave Emplo	٠ ١		nge in Dyment	Average	Annual O	penings	2003 Avg.	Education/Training Requirement
Code		2002	2012	Net	Percent	Growth	Replace- ment	Total	Wage	Education/Training Requirement
25-1066	Psychology Teachers, Postsecondary	116	150	34	29.3%	3	3	6	\$51,100	Doctoral degree
11-2031	Public Relations Managers	297	363	66	22.2%	7	5	12	\$29.23	Bachelor's degree plus work experience
27-3031	Public Relations Specialists	465	609	144	31.0%	14	7	21	\$19.70	Bachelor's degree
53-7072	Pump Operators, Except Wellhead Pumpers	20	21	1	5.0%	0	1	1	\$14.30	Moderate-term on-the-job training
13-1021	Purchasing Agents and Buyers, Farm Products	99	122	23	23.2%	2	3	5	\$18.54	Work experience in a related occupation
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	800	850	50	6.3%	5	20	25	\$20.52	Work experience in a related occupation
11-3061	Purchasing Managers	538	548	10	1.9%	1	12	13	\$27.45	Bachelor's degree plus work experience
29-1124	Radiation Therapists	58	76	18	31.0%	2	1	3	\$24.33	Associate degree
49-2021	Radio Mechanics	50	39	-11	-22.0%	0	1	1	\$16.89	Postsecondary vocational award
29-2034	Radiologic Technologists and Technicians	824	1,015	191	23.2%	19	15	34	\$21.05	Associate degree
49-3043	Rail Car Repairers	50	46	-4	-8.0%	0	1	1	\$18.82	Long-term on-the-job training
53-4021	Railroad Brake, Signal, and Switch Operators	19	16	-3	-15.8%	0	0	0	\$14.27	Work experience in a related occupation
47-4061	Rail-Track Laying and Maintenance Equipment Operators	88	80	-8	-9.1%	0	2	2	\$18.44	Moderate-term on-the-job training
41-9021	Real Estate Brokers	931	1,097	166	17.8%	17	19	36	\$32.48	Work experience in a related occupation
41-9022	Real Estate Sales Agents	462	565	103	22.3%	10	9	19	\$15.53	Postsecondary vocational award
43-4171	Receptionists and Information Clerks	3,901	4,813	912	23.4%	91	96	187	\$10.06	Short-term on-the-job training
25-1193	Recreation and Fitness Studies Teachers, Postsecondary	104	132	28	26.9%	3	2	5	\$46,870	Master's degree
39-9032	Recreation Workers	1,081	1,376	295	27.3%	30	25	55	\$10.06	Bachelor's degree
29-1125	Recreational Therapists	185	202	17	9.2%	2	4	6	\$14.64	Bachelor's degree
49-3092	Recreational Vehicle Service Technicians	98	142	44	44.9%	4	4	8	\$14.84	Long-term on-the-job training
53-7081	Refuse and Recyclable Material Collectors	761	797	36	4.7%	4	20	24	\$10.39	Short-term on-the-job training
29-1111	Registered Nurses	13,000	16,469	3,469	26.7%	347	272	619	\$24.06	Associate degree
21-1015	Rehabilitation Counselors	1,200	1,629	429	35.8%	43	27	70	\$12.20	Master's degree
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	278	304	26	9.4%	3	7	10	\$11.61	Short-term on-the-job training
39-9041	Residential Advisors	530	715	185	34.9%	19	11	30	\$10.45	Moderate-term on-the-job training
29-1126	Respiratory Therapists	421	591	170	40.4%	17	14	31	\$20.56	Associate degree
29-2054	Respiratory Therapy Technicians	56	79	23	41.1%	2	1	3	\$18.38	Postsecondary vocational award
41-2031	Retail Salespersons	19,240	20,669	1,429	7.4%	143	699	842	\$10.54	Short-term on-the-job training
49-9096	Riggers	284	305	21	7.4%	2	7	9	\$17.39	Short-term on-the-job training
51-4023	Rolling Machine Setters, Operators, and Tenders, Metal and Plastic	223	193	-30	-13.5%	0	5	5	NA	Moderate-term on-the-job training
47-2181	Roofers	493	499	6	1.2%	1	12	13	\$12.52	Moderate-term on-the-job training

soc	Occupation	Aver Emplo	٠ ١		nge in oyment	Average	Annual C	penings	2003	
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
53-5011	Sailors and Marine Oilers	219	263	44	20.1%	4	8	12	\$11.96	Short-term on-the-job training
41-9099	Sales and Related Workers, All Other	2,073	2,532	459	22.1%	46	40	86	\$18.82	Moderate-term on-the-job training
41-9031	Sales Engineers	162	185	23	14.2%	2	5	7	\$30.30	Bachelor's degree
11-2022	Sales Managers	1,214	1,472	258	21.3%	26	22	48	\$35.99	Bachelor's degree plus work experience
41-4011	Sales Representatives, Wholesale & Manufacturing, Technical & Scientific Products	1,383	1,614	231	16.7%	23	36	59	\$30.27	Moderate-term on-the-job training
41-4012	Sales Reps, Wholesale and Manufacturing, Except Technical & Scientific Products	5,352	6,204	852	15.9%	85	141	226	\$22.15	Moderate-term on-the-job training
51-7041	Sawing Machine Setters, Operators, and Tenders, Wood	824	646	-178	-21.6%	0	23	23	\$11.11	Moderate-term on-the-job training
25-2031	Secondary School Teachers, Except Special and Vocational Education	6,211	6,440	229	3.7%	23	175	198	\$40,430	Bachelor's degree
43-9999	Secretaries, Administrative Assistants, and Other Office Support Workers, All Other	797	727	-70	-8.8%	0	17	17	\$12.77	Short-term on-the-job training
43-6014	Secretaries, Except Legal, Medical, and Executive	9,420	8,848	-572	-6.1%	0	180	180	\$11.79	Moderate-term on-the-job training
41-3031	Securities, Commodities, and Financial Services Sales Agents	614	786	172	28.0%	17	7	24	\$39.07	Bachelor's degree
49-2098	Security and Fire Alarm Systems Installers	62	72	10	16.1%	1	1	2	\$14.22	Postsecondary vocational award
33-9032	Security Guards	2,629	2,831	202	7.7%	20	57	77	\$10.10	Short-term on-the-job training
25-3021	Self-Enrichment Education Teachers	960	1,539	579	60.3%	58	12	70	\$14.80	Work experience in a related occupation
51-9012	Separating, Filtering, Clarifying, Precipitating & Still Machine Setters, Operators & Tenders	226	195	-31	-13.7%	0	7	7	\$16.66	Moderate-term on-the-job training
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	66	72	6	9.1%	1	2	3	\$13.39	Moderate-term on-the-job training
53-6031	Service Station Attendants	1,195	1,275	80	6.7%	8	54	62	\$8.05	Short-term on-the-job training
27-1027	Set and Exhibit Designers	50	50	0	0.0%	0	1	1	NA	Bachelor's degree
51-6051	Sewers, Hand	391	224	-167	-42.7%	0	7	7	\$12.21	Short-term on-the-job training
51-6031	Sewing Machine Operators	1,447	1,186	-261	-18.0%	0	18	18	\$9.53	Moderate-term on-the-job training
39-5093	Shampooers	55	62	7	12.7%	1	1	2	NA	Short-term on-the-job training
47-2211	Sheet Metal Workers	1,068	1,043	-25	-2.3%	0	26	26	\$16.89	Moderate-term on-the-job training
43-5071	Shipping, Receiving, and Traffic Clerks	3,457	3,360	-97	-2.8%	0	71	71	\$12.32	Short-term on-the-job training
51-6041	Shoe and Leather Workers and Repairers	289	150	-139	-48.1%	0	9	9	\$10.73	Long-term on-the-job training
51-6042	Shoe Machine Operators and Tenders	374	145	-229	-61.2%	0	5	5	\$11.28	Moderate-term on-the-job training
49-9097	Signal and Track Switch Repairers	30	31	1	3.3%	0	1	1	NA	Moderate-term on-the-job training
39-5094	Skin Care Specialists	104	124	20	19.2%	2	2	4	\$14.96	Postsecondary vocational award
51-3023	Slaughterers and Meat Packers	20	25	5	25.0%	1	0	1	NA	Moderate-term on-the-job training
11-9151	Social and Community Service Managers	1,211	1,603	392	32.4%	39	23	62	\$21.37	Bachelor's degree
21-1093	Social and Human Service Assistants	3,249	5,295	2,046	63.0%	205	57	262	\$11.42	Moderate-term on-the-job training
19-3099	Social Scientists and Related Workers, All Other	188	200	12	6.4%	1	4	5	\$21.31	Master's degree

SOC	Occupation		rage yment		nge in oyment			Average Annual Openings		Average Annual Openings		Average Annual Openings		Average Annual Openings		Average Annual Opening		Average Annual Opening		2003	
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement											
25-1067	Sociology Teachers, Postsecondary	65	83	18	27.7%	2	2	4	\$50,910	Doctoral degree											
27-4014	Sound Engineering Technicians	30	34	4	13.3%	0	1	1	\$17.14	Postsecondary vocational award											
25-2042	Special Education Teachers, Middle School	554	638	84	15.2%	8	13	21	\$37,460	Bachelor's degree											
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	1,393	1,599	206	14.8%	21	33	54	\$38,000	Bachelor's degree											
25-2043	Special Education Teachers, Secondary School	705	806	101	14.3%	10	17	27	\$40,280	Bachelor's degree											
29-1127	Speech-Language Pathologists	715	871	156	21.8%	16	18	34	\$22.03	Master's degree											
51-8021	Stationary Engineers and Boiler Operators	430	355	-75	-17.4%	0	8	8	\$17.13	Long-term on-the-job training											
43-9111	Statistical Assistants	139	124	-15	-10.8%	0	2	2	\$14.24	Moderate-term on-the-job training											
15-2041	Statisticians	50	54	4	8.0%	0	1	1	\$24.20	Master's degree											
43-5081	Stock Clerks and Order Fillers	6,840	6,404	-436	-6.4%	0	253	253	\$10.28	Short-term on-the-job training											
47-2022	Stonemasons	137	136	-1	-0.7%	0	2	2	\$15.92	Long-term on-the-job training											
47-2221	Structural Iron and Steel Workers	277	281	4	1.4%	0	5	5	\$16.17	Long-term on-the-job training											
51-2041	Structural Metal Fabricators and Fitters	703	597	-106	-15.1%	0	17	17	\$18.26	Moderate-term on-the-job training											
21-1011	Substance Abuse and Behavioral Disorder Counselors	467	551	84	18.0%	8	11	19	\$16.23	Master's degree											
29-1067	Surgeons	450	556	106	23.6%	11	6	17	\$95.47	First Professional degree											
29-2055	Surgical Technologists	347	454	107	30.8%	11	5	16	\$15.81	Postsecondary vocational award											
19-3022	Survey Researchers	32	37	5	15.6%	1	1	2	\$17.38	Master's degree											
17-3031	Surveying and Mapping Technicians	327	397	70	21.4%	7	12	19	\$14.77	Moderate-term on-the-job training											
17-1022	Surveyors	245	245	0	0.0%	0	8	8	\$18.78	Bachelor's degree											
43-2011	Switchboard Operators, Including Answering Service	1,044	988	-56	-5.4%	0	27	27	\$10.62	Short-term on-the-job training											
51-6052	Tailors, Dressmakers, and Custom Sewers	216	196	-20	-9.3%	0	4	4	\$10.90	Long-term on-the-job training											
47-2082	Tapers	70	77	7	10.0%	1	2	3	\$17.78	Moderate-term on-the-job training											
13-2081	Tax Examiners, Collectors, and Revenue Agents	372	407	35	9.4%	4	9	13		Bachelor's degree											
13-2082	Tax Preparers	296	326	30	10.1%	3	5	8	\$16.90	Moderate-term on-the-job training											
53-3041	Taxi Drivers and Chauffeurs	622	775	153	24.6%	15	6	21	\$8.48	Short-term on-the-job training											
25-9041	Teacher Assistants	8,065	8,751	686	8.5%	69	156	225	\$23,260	Short-term on-the-job training											
25-3999	Teachers, Primary, Secondary, and Adult, All Other	2,863	3,563	700	24.4%	70	35	105	\$22,060	Bachelor's degree											
51-2092	Team Assemblers	3,346	2,777	-569	-17.0%	0	87	87		Moderate-term on-the-job training											
27-3042	Technical Writers	142	170	28	19.7%	3	4	7		Bachelor's degree											
49-2022	Telecommunications Equipment Installers and Repairers, Except Line Installers	790	798	8	1.0%	1	16	17		Long-term on-the-job training											
	Telecommunications Line Installers and Repairers	379	384	5	1.3%	1	10	11		Long-term on-the-job training											

soc	Occupation	Ave Emplo	٠ ١		nge in oyment	Average	Annual C	penings	2003	
Code	Occupation	2002	2012	Net	Percent	Growth	Replace- ment	Total	Avg. Wage	Education/Training Requirement
41-9041	Telemarketers	3,670	3,473	-197	-5.4%	0	60	60	\$12.63	Short-term on-the-job training
43-3071	Tellers	2,825	3,027	202	7.2%	20	139	159	\$9.62	Short-term on-the-job training
51-6061	Textile Bleaching and Dyeing Machine Operators and Tenders	69	43	-26	-37.7%	0	2	2	\$12.31	Moderate-term on-the-job training
51-6063	Textile Knitting and Weaving Machine Setters, Operators, and Tenders	309	242	-67	-21.7%	0	4	4	NA	Long-term on-the-job training
51-6064	Textile Winding, Twisting, and Drawing Out Machine Setters, Operators, and Tenders	316	228	-88	-27.8%	0	6	6	\$11.62	Moderate-term on-the-job training
51-6099	Textile, Apparel, and Furnishings Workers, All Other	91	69	-22	-24.2%	0	2	2	\$11.87	Short-term on-the-job training
47-2044	Tile and Marble Setters	105	119	14	13.3%	1	2	3	\$19.20	Long-term on-the-job training
49-3093	Tire Repairers and Changers	453	509	56	12.4%	6	19	25	\$8.92	Short-term on-the-job training
23-2093	Title Examiners, Abstractors, and Searchers	132	116	-16	-12.1%	0	1	1	\$17.21	Moderate-term on-the-job training
51-4111	Tool and Die Makers	184	161	-23	-12.5%	0	4	4	\$18.86	Long-term on-the-job training
51-4194	Tool Grinders, Filers, and Sharpeners	131	106	-25	-19.1%	0	4	4	\$13.51	Moderate-term on-the-job training
39-6021	Tour Guides and Escorts	254	333	79	31.1%	8	7	15	\$8.32	Moderate-term on-the-job training
13-1073	Training and Development Specialists	1,180	1,427	247	20.9%	25	18	43	\$21.74	Bachelor's degree
53-6051	Transportation Inspectors	87	94	7	8.0%	1	2	3	\$31.20	Work experience in a related occupation
53-6099	Transportation Workers, All Other	151	172	21	13.9%	2	5	7	\$13.49	Short-term on-the-job training
11-3071	Transportation, Storage, and Distribution Managers	494	557	63	12.8%	6	10	16	\$26.56	Work experience in a related occupation
41-3041	Travel Agents	288	221	-67	-23.3%	0	7	7	\$13.94	Postsecondary vocational award
37-3013	Tree Trimmers and Pruners	341	355	14	4.1%	1	7	8	\$12.81	Short-term on-the-job training
53-3032	Truck Drivers, Heavy and Tractor-Trailer	11,195	12,256	1,061	9.5%	106	183	289	\$14.13	Moderate-term on-the-job training
53-3033	Truck Drivers, Light or Delivery Services	4,707	5,392	685	14.6%	69	43	112	\$12.54	Short-term on-the-job training
27-2023	Umpires, Referees, and Other Sports Officials	93	137	44	47.3%	4	2	6		Long-term on-the-job training
51-6093	Upholsterers	179	167	-12	-6.7%	0	5	5	\$11.25	Long-term on-the-job training
19-3051	Urban and Regional Planners	86	103	17	19.8%	2	3	5	\$23.55	Master's degree
39-3031	Ushers, Lobby Attendants, and Ticket Takers	199	256	57	28.6%	6	11	17	\$7.71	Short-term on-the-job training
29-1131	Veterinarians	358	471	113	31.6%	11	9	20		First Professional degree
31-9096	Veterinary Assistants and Laboratory Animal Caretakers	530	712	182	34.3%	18	10	28	\$10.17	Short-term on-the-job training
29-2056	Veterinary Technologists and Technicians	378	541	163	43.1%	16	5	21		Associate degree
25-2023	Vocational Education Teachers, Middle School	82	79	- 3	-3.7%	0	2	2	\$40,000	Bachelor's degree plus work experience
25-1194	Vocational Education Teachers, Postsecondary	325	412	87	26.8%	9	7	16		Work experience in a related occupation
25-2032	Vocational Education Teachers, Secondary School	273	261	-12	-4.4%	0	8	8		Bachelor's degree plus work experience
35-3031	Waiters and Waitresses	10,121	11,707	1,586	15.7%	159	521	680		Short-term on-the-job training

soc	Occupation	Ave Emplo	٠ ۱		nge in oyment	Average	Annual O	penings	2003	Education/Training Requirement
Code	Оссирации	2002	2012	Net	Percent	Growth	Growth Replace- ment Total		Avg. Wage	Education/Training Requirement
49-9064	Watch Repairers	20	23	3	15.0%	0	1	1	NA	Long-term on-the-job training
51-8031	Water and Liquid Waste Treatment Plant and System Operators	549	577	28	5.1%	3	19	22	\$17.16	Long-term on-the-job training
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	236	249	13	5.5%	1	6	7	\$12.38	Short-term on-the-job training
51-4121	Welders, Cutters, Solderers, and Brazers	1,657	1,667	10	0.6%	1	47	48	\$16.16	Long-term on-the-job training
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	295	269	-26	-8.8%	0	8	8	\$16.21	Moderate-term on-the-job training
13-1022	Wholesale and Retail Buyers, Except Farm Products	1,032	1,086	54	5.2%	5	27	32	\$17.78	Work experience in a related occupation
51-7099	Woodworkers, All Other	368	293	-75	-20.4%	0	11	11	\$9.08	Moderate-term on-the-job training
51-7042	Woodworking Machine Setters, Operators, and Tenders, Except Sawing	1,266	962	-304	-24.0%	0	33	33	\$10.93	Moderate-term on-the-job training
43-9022	Word Processors and Typists	1,540	839	-701	-45.5%	0	34	34	\$11.19	Moderate-term on-the-job training
27-3043	Writers and Authors	601	717	116	19.3%	12	10	22	\$17.86	Bachelor's degree
19-1023	Zoologists and Wildlife Biologists	181	188	7	3.9%	1	6	7	\$22.78	Bachelor's degree

Average wages are for wage and salary workers only and do not include the self-employed.

	Education and Training Requirement Definitions
Education/Training Level	Definition
First Professional degree	Completion of a 6-year academic program
Doctoral degree	Completion of a 3-year academic program beyond a bachelor's degree
Master's degree	Completion of a 1- to 2-year academic program beyond a bachelor's degree
Bachelor's degree plus work experience	Completion of a 4-year academic program or higher degree beyond high school, plus related occupational experience
Bachelor's degree	Completion of a 4-year academic program beyond high school
Associate degree	Completion of a 2-year academic program beyond high school
Post-Secondary vocational award	Completion of a vocational training program
Work experience in a related occupation	Related occupational experience leading to development of specific skills
Long-term on-the-job training	More than 1 year of on-the-job training or a combination of training and classroom instruction
Moderate-term on-the-job training	1 to 12 months of on-the-job training
Short-term on-the-job training	Up to 1 month of on-the-job training

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