	Occupation title		Proposed S	Current System	Educational attainment of workers 25 years and older, percent distributions, 2008								
2000 SOC Code		Typical entry level education	Previous work experience in a related occupation	State licensing	Typical training needed to attain proficiency in the occupation	Most significant source of education or training	Less than high school diploma	High school diploma or equivalent	Some college, no degree	Associate's degree	Bachelor's degree	Master's degree	Doctoral or professional degree
11-3021	Computer and information systems managers	Bachelor's degree	More than 5 years	No	None	Bachelor's or higher degree, plus work experience	0.6	4.5	15.7	9.2	45.6	22.2	2.2
13-2031	Budget analysts	Bachelor's degree	None	No	None	Bachelor's degree	0.7	7.2	16.3	7.5	42.4	24.4	1.6
	Computer and information scientists, research	Doctoral or professional degree	None	No	None	Doctoral degree	0.6	6.4	17.0	10.5	44.3	18.7	2.5
15-1021	Computer programmers	Bachelor's degree	None	No	None	Bachelor's degree	0.6	5.0	14.4	10.0	49.8	18.0	2.2
15-1031	Computer software engineers, applications	Bachelor's degree	None	No	None	Bachelor's degree	0.3	2.6	9.8	5.5	48.7	29.3	3.8
	Computer software engineers, systems software	Bachelor's degree	None	No	None	Bachelor's degree	0.3	2.6	9.8	5.5	48.7	29.3	3.8
15-1041	Computer support specialists	Associate's degree	None	No	None	Associate degree	1.0	12.5	29.4	16.0	33.1	7.2	0.9
15-1051	Computer systems analysts	Bachelor's degree	None	No	None	Bachelor's degree	0.6	6.4	17.0	10.5	44.3	18.7	2.5
15-1061	Database administrators	Bachelor's degree	None	No	None	Bachelor's degree	0.4	4.3	16.6	9.6	47.4	19.5	2.2
15-1071	Network and computer systems administrators	Bachelor's degree	None	No	None	Bachelor's degree	0.7	8.4	25.2	15.5	39.0	10.2	1.0
	Network systems and data communications analysts	Bachelor's degree	None	No	None	Bachelor's degree	0.7	8.1	21.6	13.5	42.8	12.1	1.2
17-2051	Civil engineers	Bachelor's degree	None	Yes	None	Bachelor's degree	0.3	3.5	5.8	6.0	56.4	23.9	4.2
19-3011	Economists	Master's degree	None	No	None	Master's degree	0.0	0.7	0.6	0.2	23.2	43.6	31.7
	Educational, vocational, and school counselors	Master's degree	None	Yes	None	Master's degree	1.3	7.3	10.5	5.6	25.0	45.9	4.4
21-1013	Marriage and family therapists	Master's degree	None	Yes	Internship/residency	Master's degree	1.3	7.3	10.5	5.6	25.0	45.9	4.4
	Probation officers and correctional treatment specialists	Bachelor's degree	None	No	Moderate-term on-the job training	Bachelor's degree	2.4	15.3	20.9	9.6	37.1	13.4	1.3
23-1011		Doctoral or professional degree	None	Yes	None	First professional degree	0.1	0.5	0.8	0.3	2.5	3.0	92.8
73-7011	Paralegals and legal assistants	Associate's degree	None	No	None	Associate degree	0.8	14.0	26.6	18.4	33.7	4.1	2.4

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23-2091	Court reporters	Postsecondary nondegree award	None	Yes	None	Postsecondary vocational award	2.1	19.1	27.4	13.5	27.0	6.6	4.3
25-1000	Postsecondary teachers	Doctoral or professional degree	None	No	None	Doctoral degree	0.2	0.7	2.7	2.3	15.3	34.6	44.2
25-2032	Vocational education teachers, secondary school	Bachelor's degree	More than 5 years	Yes	None	Bachelor's or higher degree, plus work experience	0.3	0.7	2.3	1.6	45.3	46.5	3.3
25-4021	Librarians	Master's degree	None	Yes	None	Master's degree	0.3	2.4	10.0	4.6	21.9	56.6	4.1
27-1024	Graphic designers	Bachelor's degree	None	No	None	Bachelor's degree	2.7	13.0	19.3	14.1	42.5	7.1	1.1
27-2011	Actors	Some college, no degree	None	No	Long-term on-the-job training	Long-term on-the-job training	3.3	11.1	21.5	6.6	44.8	11.2	1.5
27-3022	Reporters and correspondents	Bachelor's degree	None	No	None	Bachelor's degree	0.2	3.2	9.8	3.6	59.8	21.1	2.3
29-1021	Dentists, general	Doctoral or professional degree	None	Yes	None	First professional degree	0.1	0.4	0.3	0.4	1.2	1.5	96.2
29-1022	Oral and maxillofacial surgeons	Doctoral or professional degree	None	Yes	None	First professional degree	0.1	0.4	0.3	0.4	1.2	1.5	96.2
29-1023	Orthodontists	Doctoral or professional degree	None	Yes	None	First professional degree	0.1	0.4	0.3	0.4	1.2	1.5	96.2
29-1024	Prosthodontists	Doctoral or professional degree	None	Yes	None	First professional degree	0.1	0.4	0.3	0.4	1.2	1.5	96.2
29-1029	Dentists, all other specialists	Doctoral or professional degree	None	Yes	None	First professional degree	0.1	0.4	0.3	0.4	1.2	1.5	96.2
29-1051	Pharmacists	Doctoral or professional degree	None	Yes	None	First professional degree	0.2	0.5	1.2	0.9	45.4	6.6	45.2
29-1060	Physicians and surgeons	Doctoral or professional degree	None	Yes	Internship/residency	First professional degree	0.2	0.3	0.4	0.4	1.0	2.3	95.3
29-1071	Physician assistants	Master's degree	None	Yes	None	Master's degree	1.0	6.7	9.0	14.2	30.6	26.6	12.0
29-1111	Registered nurses	Associate's degree	None	Yes	None	Associate degree	0.2	1.2	5.5	37.3	42.4	9.9	3.4
29-1121	Audiologists	Doctoral or professional degree	None	Yes	Internship/residency	First professional degree	0.0	2.7	2.4	1.8	4.9	58.6	29.6
29-1122	Occupational therapists	Master's degree	None	Yes	Internship/residency	Master's degree	0.2	0.5	0.9	8.6	55.5	31.1	3.2
29-1123	Physical therapists	Doctoral or professional degree	None	Yes	Internship/residency	Master's degree	0.3	1.8	1.5	7.1	41.7	33.4	14.3
29-1124	Radiation therapists	Associate's degree	None	Yes	None	Associate degree	0.0	3.6	11.9	40.3	37.7	3.0	3.4
29-1125	Recreational therapists	Bachelor's degree	None	Yes	None	Bachelor's degree	3.7	10.9	10.8	5.6	55.1	13.1	0.7
)U_111/	Speech-language pathologists	Master's degree	None	Yes	None	Master's degree	0.2	0.9	0.5	0.7	8.5	86.6	2.6

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29-1129	Therapists, all other	Bachelor's degree	None	No	None	Bachelor's degree	0.8	4.5	5.7	6.9	23.6	51.9	6.4
29-1199	Health diagnosing and treating practitioners, all other	Bachelor's degree	None	No	None	Bachelor's degree	0.8	3.7	7.3	2.6	14.4	45.4	25.9
29-2011	Medical and clinical laboratory technologists	Bachelor's degree	None	No	None	Bachelor's degree	1.4	10.8	18.2	17.2	44.4	5.4	2.5
79-2012	Medical and clinical laboratory technicians	Associate's degree	None	No	None	Associate degree	1.4	10.8	18.2	17.2	44.4	5.4	2.5
29-2021	Dental hygienists	Associate's degree	None	Yes	None	Associate degree	0.4	2.6	5.4	56.3	30.5	1.8	3.1
29-2031	Cardiovascular technologists and technicians	Associate's degree	None	No	None	Associate degree	0.7	8.7	21.6	45.3	19.4	2.0	2.3
29-2032	Diagnostic medical sonographers	Associate's degree	None	No	None	Associate degree	0.7	8.7	21.6	45.3	19.4	2.0	2.3
1 29-2033 1	Nuclear medicine	Associate's degree	None	Yes	None	Associate degree	0.7	8.7	21.6	45.3	19.4	2.0	2.3
29-2034	Radiologic technologists and technicians	Associate's degree	None	Yes	None	Associate degree	0.7	8.7	21.6	45.3	19.4	2.0	2.3
29-2052	Pharmacy technicians	High school diploma or equivalent	None	No	Moderate-term on-the- job training	Moderate-term on-the- job training	2.5	27.8	34.1	19.0	14.1	1.4	1.1
29-2053	Psychiatric technicians	High school diploma or equivalent	None	No	None	Postsecondary vocational award	2.5	27.8	34.1	19.0	14.1	1.4	1.1
29-2061	Licensed practical and licensed vocational nurses	Postsecondary nondegree award	None	Yes	None	Postsecondary vocational award	1.2	20.7	54.4	16.5	4.1	0.6	2.4
29-2071	Medical records and health information technicians	Associate's degree	None	No	None	Associate degree	3.7	34.2	31.6	16.1	12.3	1.3	0.8
1 29-2091 1	Orthotists and prosthetists	Bachelor's degree	None	Yes	None	Bachelor's degree	2.7	22.9	30.9	14.1	19.5	5.0	4.9
29-2099	Healthcare technologists and technicians, all other	Postsecondary nondegree award	None	No	None	Postsecondary vocational award	2.7	22.9	30.9	14.1	19.5	5.0	4.9
1 29-9011	Occupational health and safety specialists	Bachelor's degree	Less than 1 year	No	None	Bachelor's degree	1.1	11.9	16.7	8.4	39.1	20.7	2.1
1 29-9012 1	Occupational health and safety technicians	Associate's degree	Less than 1 year	No	None	Associate degree	1.1	11.9	16.7	8.4	39.1	20.7	2.1

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2000 SOC Code	Occupation title	Typical entry level education	Previous work experience in a related occupation	State licensing	Typical training needed to attain proficiency in the occupation	Most significant source of education or training	Less than high school diploma	High school diploma or equivalent	Some college, no degree	Associate's degree	Bachelor's degree	Master's degree	Doctoral or professional degree
29-9099	Healthcare practitioners and technical workers, all other	Bachelor's degree	None	No	None	Bachelor's degree	1.1	11.9	16.7	8.4	39.1	20.7	2.1
31-1012	Nursing aides, orderlies, and attendants	Postsecondary nondegree award	None	No	None	Postsecondary vocational award	16.0	40.6	28.3	7.2	5.8	1.3	0.9
31-1013	Psychiatric aides	High school diploma or equivalent	None	No	Short-term on-the-job training	Short-term on-the-job training	16.0	40.6	28.3	7.2	5.8	1.3	0.9
31-2011	Occupational therapist assistants	Associate's degree	None	Yes	None	Associate degree	1.3	1.3	10.1	74.1	11.5	1.0	0.7
31-2012	Occupational therapist aides	High school diploma or equivalent	None	No	Short-term on-the-job training	Short-term on-the-job training	1.3	1.3	10.1	74.1	11.5	1.0	0.7
31-2021	Physical therapist assistants	Associate's degree	None	Yes	None	Associate degree	2.6	10.6	15.9	50.5	16.1	3.1	1.1
31-2022	Physical therapist aides	High school diploma or equivalent	None	No	Short-term on-the-job training	Short-term on-the-job training	2.6	10.6	15.9	50.5	16.1	3.1	1.1
31-9091	Dental assistants	High school diploma or equivalent	None	Yes	Moderate-term on-the job training	Moderate-term on-the- job training	3.1	32.5	38.1	16.1	7.0	0.7	2.5
31-9092	Medical assistants	High school diploma or equivalent	None	No	Moderate-term on-the job training	Moderate-term on-the- job training	4.8	29.0	37.8	16.3	9.1	1.6	1.4
31-9095	Pharmacy aides	Less than high school	None	No	None	Short-term on-the-job training	4.8	29.0	37.8	16.3	9.1	1.6	1.4
33-1011	First-line supervisors/managers of correctional officers	High school diploma or equivalent	More than 5 years	Yes	None	Work experience in a related occupation	1.3	26.4	33.1	14.2	18.7	5.4	0.9
33-3031	Fish and game wardens	Associate's degree	None	Yes	Moderate-term on-the job training	Associate degree	4.0	29.3	25.1	9.5	26.5	5.0	0.6
33-9032	Security guards	High school diploma or equivalent	None	Yes	Moderate-term on-the job training	Short-term on-the-job training	10.0	36.3	29.3	9.7	12.1	2.1	0.5
35-1011	Chefs and head cooks	High school diploma or equivalent	More than 5 years	No	None	Work experience in a related occupation	18.4	32.3	19.2	17.0	11.2	1.4	0.6
37-1011	First-line supervisors/managers of housekeeping and janitorial workers	High school diploma or equivalent	1 to 5 years	No	None	Work experience in a related occupation	17.4	40.3	22.7	7.8	9.7	1.8	0.4
37-1012	langscaning lawn	High school diploma or equivalent	1 to 5 years	No	None	Work experience in a related occupation	19.4	33.3	22.2	8.2	15.0	1.7	0.3

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2000 SOC Code	Occupation title	Typical entry level education	Previous work experience in a related occupation	State licensing	Typical training needed to attain proficiency in the occupation	Most significant source of education or training	Less than high school diploma	High school diploma or equivalent	Some college, no degree	Associate's degree	Bachelor's degree	Master's degree	Doctoral or professional degree
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	Less than high school	None	No	Short-term on-the-job training	Short-term on-the-job training	29.3	44.8	16.2	4.6	4.2	0.6	0.2
37-2012	Maids and housekeeping cleaners	Less than high school	None	No	Short-term on-the-job training	Short-term on-the-job training	41.2	39.5	11.5	3.1	3.9	0.6	0.2
37-2021	Pest control workers	High school diploma or equivalent	None	Yes	Short-term on-the-job training	Moderate-term on-the- job training	10.6	44.3	29.1	6.1	8.5	1.0	0.4
37-3011	Landscaping and groundskeeping workers	Less than high school	None	No	Short-term on-the-job training	Short-term on-the-job training	40.7	34.4	13.8	4.2	5.7	0.8	0.2
37-3012	Pesticide handlers, sprayers, and applicators, vegetation	High school diploma or equivalent	None	Yes	Short-term on-the-job training	Moderate-term on-the- job training	40.7	34.4	13.8	4.2	5.7	0.8	0.2
37-3013	Tree trimmers and pruners	Less than high school	None	No	Short-term on-the-job training	Short-term on-the-job training	40.7	34.4	13.8	4.2	5.7	0.8	0.2
39-9021	Personal and home care aides	Less than high school	None	No	Short-term on-the-job training	Short-term on-the-job training	21.6	37.1	23.6	7.0	8.4	1.6	0.7
41-1011	First-line supervisors/managers of retail sales workers	High school diploma or equivalent	1 to 5 years	No	None	Work experience in a related occupation	6.7	32.5	27.3	8.8	20.7	3.3	0.7
41-1012	First-line supervisors/managers of non-retail sales workers	High school diploma or equivalent	1 to 5 years	No	None	Work experience in a related occupation	5.6	23.8	23.7	8.1	29.9	7.5	1.4
41-2031	Retail salespersons	High school diploma or equivalent	None	No	Short-term on-the-job training	Short-term on-the-job training	7.5	32.0	27.3	8.7	20.5	3.3	0.6
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products	High school diploma or equivalent	None	No	Moderate-term on-the job training	Work experience in a related occupation	3.0	18.6	23.2	8.1	39.8	6.6	0.7
	Sales representatives, wholesale and manufacturing, except technical and scientific products	High school diploma or equivalent	None	No	Moderate-term on-the job training	Work experience in a related occupation	3.0	18.6	23.2	8.1	39.8	6.6	0.7
41-9031	Sales engineers	Bachelor's degree	None	No	None	Bachelor's degree	0.9	5.0	15.6	8.3	54.6	14.7	1.0
43-4131	Loan interviewers and clerks	High school diploma or equivalent	None	No	training	Short-term on-the-job training	2.0	29.1	36.1	11.2	19.1	2.2	0.4
45-4011	Forest and conservation workers	High school diploma or equivalent	None	No	Short-term on-the-job training	Moderate-term on-the- job training	24.2	33.3	14.7	4.6	19.8	3.5	0.0
47-2111	Electricians	High school diploma or equivalent	None	Yes	Apprenticeship	Long-term on-the-job training	9.0	40.1	30.4	12.9	6.4	0.9	0.4

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2000 SOC Code		Typical entry level education	Previous work experience in a related occupation	State licensing	Typical training needed to attain proficiency in the occupation	Most significant source of education or training	Less than high school diploma	High school diploma or equivalent	Some college, no degree	Associate's degree	Bachelor's degree	Master's degree	Doctoral or professional degree
49-9063	Musical instrument repairers and tuners	Less than high school	None	No	Apprenticeship	Long-term on-the-job training	4.6	22.3	32.0	22.4	14.6	3.5	0.5
49-9064	Watch repairers	High school diploma or equivalent	None	No	Long-term on-the-job training	Long-term on-the-job training	4.6	22.3	32.0	22.4	14.6	3.5	0.5
51-8011	Nuclear power reactor operators	High school diploma or equivalent	None	Yes	Long-term on-the-job training	Long-term on-the-job training	2.3	36.1	33.2	13.7	12.7	1.7	0.2
I 51-8012 I	Power distributors and dispatchers	High school diploma or equivalent	None	Yes	Long-term on-the-job training	Long-term on-the-job training	2.3	36.1	33.2	13.7	12.7	1.7	0.2
51-8013	Power plant operators	High school diploma or equivalent	None	Yes	Long-term on-the-job training	Long-term on-the-job training	2.3	36.1	33.2	13.7	12.7	1.7	0.2
51-8021	Stationary engineers and boiler operators	High school diploma or equivalent	None	Yes	Long-term on-the-job training	Long-term on-the-job training	7.1	42.4	30.5	8.8	8.9	2.0	0.3
51-8031	Water and liquid waste treatment plant and system operators	High school diploma or equivalent	None	Yes	Long-term on-the-job training	Long-term on-the-job training	3.9	44.9	31.0	10.6	8.5	0.9	0.2
51-9081	Dental laboratory technicians	High school diploma or equivalent	None	Yes	Moderate-term on-the-	Moderate-term on-the-	6.8	33.6	30.1	14.9	11.3	1.7	1.5
51-9082	Medical appliance technicians	High school diploma or equivalent	None	No	Long-term on-the-job training	Long-term on-the-job training	6.8	33.6	30.1	14.9	11.3	1.7	1.5
51-9083	Ophthalmic laboratory technicians	High school diploma or equivalent	None	No	Moderate-term on-the-	Moderate-term on-the- job training	6.8	33.6	30.1	14.9	11.3	1.7	1.5
51-9141	Semiconductor processors	Postsecondary nondegree award	None	No	Long-term on-the-job training	Postsecondary vocational award	23.6	47.7	18.3	5.1	4.5	0.7	0.2
1 53-3021	Bus drivers, transit and intercity	Less than high school	None	Yes	Moderate-term on-the-	Moderate-term on-the- job training	11.1	48.1	26.5	6.8	5.9	1.2	0.4
53-3022	Bus drivers, school	Less than high school	None	Yes	Moderate-term on-the- job training	Moderate-term on-the- job training	11.1	48.1	26.5	6.8	5.9	1.2	0.4
53-3031	Driver/sales workers	Less than high school	None	No	Short-term on-the-job training	Short-term on-the-job training	19.9	49.4	20.7	4.8	4.3	0.6	0.2
53-3032	Truck drivers, heavy and tractor-trailer	Less than high school	None	Yes	Short-term on-the-job training	Short-term on-the-job training	19.9	49.4	20.7	4.8	4.3	0.6	0.2
54-4044	Truck drivers, light or delivery services	Less than high school	None	Yes	Short-term on-the-job training	Short-term on-the-job training	19.9	49.4	20.7	4.8	4.3	0.6	0.2
53-3041	Taxi drivers and chauffeurs	Less than high school	None	Yes	Short-term on-the-job training	•	17.2	39.2	22.0	6.4	12.0	2.4	0.7