



**FIVCO Area  
Occupational Outlook to 2018**

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**AUXILIARY AIDS AND SERVICES ARE AVAILABLE UPON REQUEST TO INDIVIDUALS WITH DISABILITIES**

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## PREFACE

The information and projections contained in this publication are based on a broad range of labor market information and statistics that are collected and analyzed by the staff of the Labor Market Information (LMI) section.

The Occupational Employment Statistics (OES) survey of approximately 20,000 Kentucky employers provided the occupational employment data used in the study. The data obtained from the Current Employment Statistics (CES) and the Quarterly Census of Employment and Wages (QCEW) programs were used to project industries to the year 2018. Staff utilized data from all programs to create the 2018 occupational outlook publications for each of the ADDs below:

ADD 1-Purchase Area	ADD 8&9-Buffalo Trace and Gateway Areas
ADD 2-Pennyrile Area	ADD 10-FIVCO Area
ADD 3-Green River Area	ADD 11-Big Sandy Area
ADD 4-Barren River Area	ADD 12-Kentucky River Area
ADD 5-Lincoln Trail Area	ADD 13-Cumberland Valley Area
ADD 6-Louisville (KIPDA) Area	ADD 14-Lake Cumberland Area
ADD 7-Northern Kentucky Area	ADD 15-Bluegrass Area

The U.S. Department of Labor (USDOL), Employment and Training Administration (ETA) provided funding for the publication and projections. The national industry and occupational projections developed by the U. S. Department of Labor, Bureau of Labor Statistics (BLS), were used in conjunction with state and regional trends to project Kentucky's industries and occupations. The Bureau of Labor Statistics and the U.S. Department of Commerce, Bureau of Economic Analysis, provided additional statistics necessary in the projection process. The Utah Department of Economic Security developed the personal computer-based model used for the projections. Special thanks to Kentucky employers who completed the questionnaires that provide the employment information necessary to complete this project.

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## INTRODUCTION

### FIVCO Area

Which jobs will be in demand? Which occupations will provide the largest number of job openings? Which are likely to grow or decline? The *FIVCO Area Occupational Outlook to 2018* offers answers and insight regarding these often-asked questions. Students, job seekers, counselors and others will find this information beneficial.

Tables listing the 50 occupations with the largest number of annual job openings and the 50 fastest-growing occupations are included. They also provide occupational employment projections, the number and percentage of expected change and the average number of annual job openings for the period 2008 to 2018.

Please note that the estimates and projections are subject to limitations that are a part of any effort to determine future conditions. Long-term job trends offer insight into the occupational growth or decline in the area. The projections are carefully prepared using accepted methods within a framework of national, state and area assumptions. However, they will be modified in future publications if long-term changes occur in the area's economic outlook or as more current information becomes available.

The estimates in this report reflect only the demand for labor from 2008 through 2018. The supply, or the number of educated or trained workers available to fill future job openings, is beyond the scope of this report.

The development and utilization of our human resources is always a priority for those concerned with employment training. It is crucial that education and training planners, business, labor, government, and job seekers have the necessary occupational information to aid them in the development of education and training programs. This publication was intended to assist in these efforts.

**NOTE:** Prior to 2000, the Occupational Employment Statistics (OES) codes were used to classify occupations. The 2008-2018 projections use the Standard Occupational Classification (SOC) system. Because of this change, the titles and content of major occupational groups and many detailed occupations are substantially different from those used before 2000. Several major groups have been renamed, combined or reorganized. Some individual occupations have been renamed, reclassified, or are no longer listed. Many newer occupations may be listed for the first time. Because of these changes, the 2008-2018 projections are not comparable to those completed before 2000. Information on the SOC system is available on the U.S. Bureau of Labor Statistics SOC Home Page <http://www.bls.gov/soc/home.htm>.

## **FIVCO HIGHLIGHTS 2008-2018**

- ✓ Employment is projected to grow from 52,261 to 56,001, a gain of 7.2 percent.
- ✓ Total annual job openings are expected to be about 1,661.
- ✓ Growth in employment will create about 452 job openings annually.
- ✓ Approximately 1,209 annual job openings will result from separations from the labor force due to retirement or those who transfer to other jobs.
- ✓ Twenty-seven percent of job openings will result from growth; the remaining 73 percent will result from separations from the labor force.
- ✓ The greatest number of annual job openings will be in Office and Administrative Support Occupations (242), followed by Sales and Related Occupations (215) and Healthcare Practitioners and Technical Occupations (191).
- ✓ The two occupations with the largest projected number of annual job openings are Cashiers (80) and Retail Salespersons (80).
- ✓ The highest growth rates among occupational groups are likely to be in Occupational and Physical Therapist Assistant and Aide Occupations (25.9%), followed by Computer Specialist Occupations (24.9%) and Nursing, Psychiatric, and Home Health Aide Occupations (24.1%).
- ✓ Some specific occupations with the largest percentage change are Network Systems and Data Communications Analysts (70.0%), Physician Assistants (48.6%) and Dental Hygienists (39.7%).

## USER'S GUIDE TO OCCUPATIONAL OUTLOOK STATISTICS

<p>When looking at an occupation, what key outlook data should you review?</p>	<p><b>1)</b> Total average annual job openings, and <b>2)</b> employment change expressed as a percentage. The total number of job openings estimates the likely annual demand for workers in each occupation. The percentage of employment change shows how much each occupation is likely to grow or decline.</p>
<p>What creates job openings?</p>	<p><b>1)</b> Employment growth (new jobs), and <b>2)</b> employment separations (job vacancies created by persons separating from an occupation).</p>
<p>What causes employment change?</p>	<p><i>Industrial growth or decline</i> has the greatest influence. This occurs when the demand for goods and services rises, thus the demand for workers increases. <i>Technological change</i> may raise the demand for some skills while eliminating the demand for others. <i>Self-service, out-sourcing, or 24 hour operations</i> can also affect employment change.</p>
<p>What about employment separations?</p>	<p>Employment separations are still important when evaluating the potential outlook for an occupation. Job openings are created when employees separate from occupations because of retirements, promotions, career changes, death, etc. The number of separations can exceed new jobs.</p>
<p>Do workers tend to leave one occupation more than other occupations?</p>	<p>Every occupation has a different rate of employment separation. Occupations requiring more education and training and/or having a high percentage of full time workers tend to have low separation rates. Those requiring little education and/or training tend to have higher separation rates.</p>
<p>What factors affect the number of job openings for an occupation?</p>	<p><b>1)</b> The number of workers who are currently employed, <b>2)</b> the number of job vacancies created by worker separation, and <b>3)</b> the rate of change, i.e., how fast the occupation is growing or declining.</p>
<p>Which factor is more important?</p>	<p>The size of employment and separation rate is more important than rate of change.</p>
<p>What is the best way to compare one occupation with another?</p>	<p>Look at the total average annual job openings, not just openings resulting from growth. A large number of openings indicates it should be relatively easy to find a job in that occupation. Also, consider the rate of employment change. A high percentage increase denotes there may be excellent chances for advancement and for earnings increases because demand is likely to remain strong for some time.</p>

**Top 50  
Fastest Growing FIVCO Area Occupations**

Rank	Code	Occupational Title	Employment		Change		Avg. Annual Openings
			2008	2018	Number	Percent	
1	15-1081	Network Systems & Data Communications Analysts	30	51	21	<b>70.0</b>	3
2	29-1071	Physician Assistants	37	55	18	<b>48.6</b>	3
3	29-2021	Dental Hygienists	58	81	23	<b>39.7</b>	3
4	31-9091	Dental Assistants	79	110	31	<b>39.2</b>	5
5	31-9092	Medical Assistants	238	322	84	<b>35.3</b>	11
6	15-1031	Computer Software Engineers, Applications	46	62	16	<b>34.8</b>	2
7	29-1123	Physical Therapists	72	97	25	<b>34.7</b>	4
8	39-9021	Personal and Home Care Aides	115	154	39	<b>33.9</b>	5
9	39-9032	Recreation Workers	60	80	20	<b>33.3</b>	3
10	29-1061	Anesthesiologists	110	146	36	<b>32.7</b>	6
11	29-1067	Surgeons	32	42	10	<b>31.3</b>	2
12	29-2052	Pharmacy Technicians	154	199	45	<b>29.2</b>	9
13	31-2021	Physical Therapist Assistants	58	74	16	<b>27.6</b>	3
14	29-1069	Physicians and Surgeons, All Other	145	185	40	<b>27.6</b>	7
15	15-1051	Computer Systems Analysts	52	66	14	<b>26.9</b>	2
16	13-1051	Cost Estimators	63	79	16	<b>25.4</b>	3
17	29-2071	Medical Records & Health Info. Technicians	95	119	24	<b>25.3</b>	4
18	29-2031	Cardiovascular Technologists and Technicians	41	51	10	<b>24.4</b>	2
19	13-1041	Compliance Ofcr., Excl. Ag., Constr., Health & Trans.	37	46	9	<b>24.3</b>	1
20	29-1111	Registered Nurses	1,841	2,278	437	<b>23.7</b>	76
21	29-2055	Surgical Technologists	68	84	16	<b>23.5</b>	4
22	47-3015	Helpers--Pipelayer & fitter, Plumber & Steamfitter	30	37	7	<b>23.3</b>	2
23	13-1071	Employment, Recruitment & Placement Specialists	43	53	10	<b>23.3</b>	2
24	29-2032	Diagnostic Medical Sonographers	35	43	8	<b>22.9</b>	2
25	31-1012	Nursing Aides, Orderlies, and Attendants	1,002	1,230	228	<b>22.8</b>	33

**Top 50 (cont.)  
Fastest Growing FIVCO Area Occupations**

Rank	Code	Occupational Title	Employment		Change		Avg. Annual Openings
			2008	2018	Number	Percent	
26	29-2061	Licensed Practical & Licensed Voc. Nurses	482	588	106	<b>22.0</b>	26
27	21-1093	Social and Human Service Assistants	110	134	24	<b>21.8</b>	4
28	39-5012	Hairdressers, Hairstylists, and Cosmetologists	176	214	38	<b>21.6</b>	7
29	47-3013	Helpers--Electricians	52	63	11	<b>21.2</b>	2
30	21-1022	Medical and Public Health Social Workers	43	52	9	<b>20.9</b>	2
31	43-3021	Billing and Posting Clerks and Machine Operators	489	590	101	<b>20.7</b>	18
32	21-1023	Mental Health & Substance Abuse Social Workers	34	41	7	<b>20.6</b>	2
33	43-5031	Police, Fire, and Ambulance Dispatchers	50	60	10	<b>20.0</b>	2
34	11-9111	Medical and Health Services Managers	101	121	20	<b>19.8</b>	4
35	27-3031	Public Relations Specialists	71	85	14	<b>19.7</b>	3
36	43-4111	Interviewers, Excl. Eligibility and Loan	92	110	18	<b>19.6</b>	4
37	49-9021	Heating, A.C. & Refrigeration Mech. & Installers	152	181	29	<b>19.1</b>	5
38	43-4051	Customer Service Representatives	1,176	1,390	214	<b>18.2</b>	58
39	29-2034	Radiologic Technologists and Technicians	259	306	47	<b>18.1</b>	9
40	29-1021	Dentists, General	61	72	11	<b>18.0</b>	3
41	43-3011	Bill and Account Collectors	40	47	7	<b>17.5</b>	2
42	31-9099	Healthcare Support Workers, All Other	128	149	21	<b>16.4</b>	3
43	21-1015	Rehabilitation Counselors	55	64	9	<b>16.4</b>	2
44	35-3011	Bartenders	179	207	28	<b>15.6</b>	9
45	53-5021	Captains, Mates, and Pilots of Water Vessels	64	74	10	<b>15.6</b>	4
46	15-1071	Network and Computer Systems Administrators	45	52	7	<b>15.6</b>	2
47	29-1051	Pharmacists	116	134	18	<b>15.5</b>	5
48	13-1072	Compensation, Benefits & Job Analysis Specialists	58	67	9	<b>15.5</b>	3
49	13-1079	Human Res., Trng. & Labor Relations Spec., Other	129	149	20	<b>15.5</b>	5
50	25-2041	Spec. Ed. Teachers, Pre., Kinder. & Elem. School **	92	106	14	<b>15.2</b>	3

**Top 50**  
**FIVCO Area Occupations with Most Annual Job Openings**

Rank	Code	Occupational Title	Employment		Change		Avg. Annual Openings
			2008	2018	Number	Percent	
1	41-2031	Retail Salespersons	2,314	2,467	153	6.6	<b>80</b>
2	41-2011	Cashiers	1,773	1,772	-1	-0.1	<b>80</b>
3	29-1111	Registered Nurses	1,841	2,278	437	23.7	<b>76</b>
4	43-4051	Customer Service Representatives	1,176	1,390	214	18.2	<b>58</b>
5	35-3021	Combined Food Preparation & Service Workers	1,293	1,456	163	12.6	<b>43</b>
6	35-3031	Waiters and Waitresses	677	711	34	5.0	<b>40</b>
7	31-1012	Nursing Aides, Orderlies, and Attendants	1,002	1,230	228	22.8	<b>33</b>
8	29-2061	Licensed Practical & Licensed Voc. Nurses	482	588	106	22.0	<b>26</b>
9	41-1011	Managers of Retail Sales Workers	1,063	1,088	25	2.4	<b>26</b>
10	43-4171	Receptionists and Information Clerks	530	610	80	15.1	<b>22</b>
11	25-2021	Elementary School Teachers, Excl. Special Ed. **	627	702	75	12.0	<b>22</b>
12	53-7062	Laborers & Freight, Stock & Material Movers, Hand	691	644	-47	-6.8	<b>22</b>
13	35-2021	Food Preparation Workers	534	552	18	3.4	<b>21</b>
14	53-3032	Truck Drivers, Heavy and Tractor-Trailer	659	731	72	10.9	<b>19</b>
15	37-2011	Janitors & Cleaners, Excl. Maids & Housekeeping	905	922	17	1.9	<b>19</b>
16	43-3021	Billing and Posting Clerks and Machine Operators	489	590	101	20.7	<b>18</b>
17	47-2111	Electricians	553	603	50	9.0	<b>18</b>
18	25-9041	Teacher Assistants **	674	714	40	5.9	<b>18</b>
19	43-5081	Stock Clerks and Order Fillers	638	671	33	5.2	<b>18</b>
20	39-9011	Child Care Workers	455	490	35	7.7	<b>17</b>
21	11-1021	General and Operations Managers	589	562	-27	-4.6	<b>17</b>
22	43-3031	Bookkeeping, Accounting, and Auditing Clerks	723	796	73	10.1	<b>16</b>
23	43-1011	Managers of Office & Admin. Support Workers	392	447	55	14.0	<b>15</b>
24	25-2031	Sec. School Teachers, Excl. Special and Voc. Ed. **	395	414	19	4.8	<b>14</b>
25	43-3071	Tellers	273	290	17	6.2	<b>13</b>

**Top 50 (cont.)**  
**FIVCO Area Occupations with Most Annual Job Openings**

Rank	Code	Occupational Title	Employment		Change		Avg. Annual Openings
			2008	2018	Number	Percent	
26	35-2014	Cooks, Restaurant	352	377	25	7.1	12
27	31-9092	Medical Assistants	238	322	84	35.3	11
28	29-2041	Emergency Medical Technicians and Paramedics	359	399	40	11.1	11
29	35-2011	Cooks, Fast Food	345	368	23	6.7	11
30	43-6014	Secretaries, Excl. Legal, Medical, and Executive	778	774	-4	-0.5	11
31	49-9042	Maintenance and Repair Workers, General	404	441	37	9.2	10
32	47-2152	Plumbers, Pipefitters, and Steamfitters	337	367	30	8.9	10
33	43-6011	Executive Secretaries & Admin. Assistants	432	467	35	8.1	10
34	29-2052	Pharmacy Technicians	154	199	45	29.2	9
35	29-2034	Radiologic Technologists and Technicians	259	306	47	18.1	9
36	35-3011	Bartenders	179	207	28	15.6	9
37	47-2061	Construction Laborers	436	495	59	13.5	9
38	25-2022	Middle School Teachers, Excl. Special & Voc. Ed. **	253	282	29	11.5	9
39	47-2073	Operating Engineers & Other Constr. Equip. Ops.	357	389	32	9.0	9
40	33-3012	Correctional Officers and Jailers	302	321	19	6.3	9
41	35-9031	Hosts & Hostesses, Restaurant & Lounge	114	121	7	6.1	9
42	43-9061	Office Clerks, General	478	500	22	4.6	9
43	37-2012	Maids and Housekeeping Cleaners	485	477	-8	-1.6	9
44	51-4121	Welders, Cutters, Solderers, and Brazers	301	275	-26	-8.6	9
45	53-3033	Truck Drivers, Light or Delivery Services	388	394	6	1.5	8
46	35-2012	Cooks, Institution and Cafeteria	319	321	2	0.6	8
47	49-1011	Managers of Mechanics, Installers, and Repairers	292	292	0	0.0	8
48	51-8093	Petroleum Pump System Ops., Refinery Ops.	336	319	-17	-5.1	8
49	29-1069	Physicians and Surgeons, All Other	145	185	40	27.6	7
50	39-5012	Hairdressers, Hairstylists, and Cosmetologists	176	214	38	21.6	7

## Explanation of Data Elements in the Occupational Outlook Table

# Occupational Employment Outlook

Occupational		Employment 2008      2018		Job Growth 2008      2018		Average Annual Job Openings			Average Wage	Education/ Training Required		
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010			
<p><b>Occupational Codes &amp; Titles</b> used in this report are based on the Standard Occupational Coding (SOC) structure.</p> <p><b>NOTE:</b> Alphabetical listing beginning on page 50 will help locate a specific occupation within the tables.</p>		<p><b>Estimated</b> 2008 employment is based on the Occupational Employment Statistics (OES) Survey of employers.</p> <p><b>Projected</b> 2018 levels of occupational employment are based on projections of industry employment and projections of occupational change factors between 2008 and 2018.</p> <p><b>NOTE:</b> The occupational employment estimates for 2008 to 2018 include all classes of workers such as public and private, wage and salaried workers; agricultural workers; private household workers; and self-employed.</p>		<p><b>Number</b> The total number of jobs in an occupation gained or lost over the 2008 to 2018 period.</p> <p><b>Percent</b> Percent change in employment in an occupation over the 10 year period.</p> <p><b>NOTE:</b> In Kentucky, the average growth for all occupations is projected to be 7.5 percent between 2008-2018.</p> <p>The growth of an occupation is classified as one of the following based on its percent change:</p> <ol style="list-style-type: none"> <li>1) Declining (&lt; -4.0%)</li> <li>2) Stable (-4.0% - 4.0%)</li> <li>3) Growing (4.1% - 10.0%)</li> <li>4) Fast Growing (10.1% - 15.0%)</li> <li>5) Very Fast Growing (&gt; 15.0%)</li> </ol>		<p><b>Growth</b> Provides estimates of the average number of job openings expected to occur due to employment growth each year between 2008 and 2018.</p> <p><b>Separations</b> Provides estimates of the average number of job openings expected to occur each year in an occupation from workers separating or leaving for reasons such as retirement, promotion, or simply transferring among occupations. These separations would require replacement workers.</p> <p><b>Total</b> The sum of openings due to <b>growth</b> and openings due to <b>separations</b> for an occupation.</p> <p><b>NOTE:</b> If employment growth is negative, the total number of job openings will equal the number of separations.</p>			<p><b>Average Wage</b> in this report always refers to the 2010 <b>statewide</b> mean hourly wage for each occupation.</p> <p><b>NOTE:</b> For area-specific wage information, please visit the <b>Occupational Wages</b> section of our web site.</p>		<p><b>Education and/or Training Levels Required</b> are developed by the Bureau of Labor Statistics and group occupations into eleven categories (1-11).</p> <p><b>NOTE:</b> The various categories are described in detail on page 49 of this report.</p>	

# FIVCO Area

## Management Occupations

### Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>00-0000 Total, All Occupations</b>		<b>52,261</b>	<b>56,001</b>	<b>3,740</b>	<b>7.16</b>	<b>452</b>	<b>1,209</b>	<b>1,661</b>	<b>18.21</b>	<b>n/a</b>
<b>11-0000 Management Occupations</b>		<b>2,356</b>	<b>2,419</b>	<b>63</b>	<b>2.67</b>	<b>12</b>	<b>55</b>	<b>67</b>	<b>40.00</b>	<b>n/a</b>
<b>11-1000</b>	<b>Top Executives</b>	<b>729</b>	<b>692</b>	<b>-37</b>	<b>-5.08</b>	<b>0</b>	<b>21</b>	<b>21</b>	<b>n/a</b>	<b>n/a</b>
11-1011	Chief Executives	*	*	*	*	*	*	*	66.40	4
11-1021	General and Operations Managers	589	562	-27	-4.58	0	17	17	42.16	4
11-1031	Legislators	*	*	*	*	*	*	*	14.31	4
<b>11-2000</b>	<b>Adv., Market., Promo., P.R. &amp; Sales Managers</b>	<b>89</b>	<b>94</b>	<b>5</b>	<b>5.62</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>n/a</b>	<b>n/a</b>
11-2011	Advertising and Promotions Managers	*	*	*	*	*	*	*	27.94	4
11-2021	Marketing Managers	*	*	*	*	*	*	*	45.99	4
11-2022	Sales Managers	45	46	1	2.22	0	1	1	44.25	4
11-2031	Public Relations Managers	*	*	*	*	*	*	*	33.19	4
<b>11-3000</b>	<b>Operations Specialties Managers</b>	<b>389</b>	<b>393</b>	<b>4</b>	<b>1.03</b>	<b>2</b>	<b>9</b>	<b>11</b>	<b>n/a</b>	<b>n/a</b>
11-3011	Administrative Services Managers	*	*	*	*	*	*	*	33.25	4
11-3021	Computer and Information Systems Mgrs.	*	*	*	*	*	*	*	45.86	4
11-3031	Financial Managers	186	194	8	4.30	1	3	4	39.81	4
11-3041	Compensation and Benefits Managers	*	*	*	*	*	*	*	34.01	4
11-3042	Training and Development Managers	*	*	*	*	*	*	*	33.75	4
11-3049	Human Resources Managers, All Other	*	*	*	*	*	*	*	41.11	4
11-3051	Industrial Production Managers	75	66	-9	-12.00	0	3	3	39.37	8
11-3061	Purchasing Managers	*	*	*	*	*	*	*	40.82	4
11-3071	Transportation, Storage, & Distribution Mgrs.	35	32	-3	-8.57	0	1	1	37.37	8
<b>11-9000</b>	<b>Other Management Occupations</b>	<b>1,149</b>	<b>1,240</b>	<b>91</b>	<b>7.92</b>	<b>9</b>	<b>23</b>	<b>32</b>	<b>n/a</b>	<b>n/a</b>
11-9011	Farm, Ranch, and Other Agricultural Mgrs.	104	105	1	0.96	0	2	2	22.66	4
11-9012	Farmers and Ranchers	*	*	*	*	*	*	*	n/a	9
11-9021	Construction Managers	194	221	27	13.92	3	2	5	32.81	5
11-9031	Education Admin., Preschool and Child Care	*	*	*	*	*	*	*	22.74	4
11-9032	Education Admin., Elementary and Secondary	128	134	6	4.69	1	4	5	n/a	4
11-9033	Education Administrators, Postsecondary	*	*	*	*	*	*	*	43.87	4
11-9039	Education Administrators, All Other	*	*	*	*	*	*	*	30.69	4
11-9041	Engineering Managers	*	*	*	*	*	*	*	48.32	4
11-9051	Food Service Managers	176	183	7	3.98	1	3	4	22.26	8

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Management Occupations (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2008	2018	2008-2018		Average Annual 2008-2018			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	Req'd~
11-9061	Funeral Directors	62	69	7	11.29	1	1	2	21.15	6
11-9071	Gaming Managers	*	*	*	*	*	*	*	n/a	8
11-9081	Lodging Managers	31	32	1	3.23	0	1	1	23.20	8
11-9111	Medical and Health Services Managers	101	121	20	19.80	2	2	4	39.34	4
11-9121	Natural Sciences Managers	*	*	*	*	*	*	*	41.56	4
11-9131	Postmasters and Mail Superintendents	*	*	*	*	*	*	*	26.93	8
11-9141	Property, Real Estate, Community Assoc. Mgrs.	46	49	3	6.52	0	1	1	21.35	5
11-9151	Social and Community Service Managers	81	90	9	11.11	1	2	3	26.19	5
11-9199	Managers, All Other	146	153	7	4.79	1	4	5	39.25	8

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Business & Financial Operations Occs.

### Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>13-0000 Business and Financial Operations Occupations</b>		<b>1,140</b>	<b>1,283</b>	<b>143</b>	<b>12.54</b>	<b>15</b>	<b>24</b>	<b>39</b>	<b>26.17</b>	<b>n/a</b>
<b>13-1000</b>	<b>Business Operations Specialists</b>	<b>808</b>	<b>913</b>	<b>105</b>	<b>13.00</b>	<b>11</b>	<b>19</b>	<b>30</b>	<b>n/a</b>	<b>n/a</b>
13-1011	Agents & Mgrs.- Artists, Performers & Athletes	*	*	*	*	*	*	*	39.68	4
13-1021	Purchasing Agents and Buyers, Farm Products	*	*	*	*	*	*	*	30.22	9
13-1022	Wholesale & Retail Buyers, Excl. Farm Products	*	*	*	*	*	*	*	23.51	9
13-1023	Purchasing Agents, Excl. Wholesale, Retail & Farm	91	97	6	6.59	1	2	3	24.74	9
13-1031	Claims Adjusters, Examiners, and Investigators	*	*	*	*	*	*	*	26.54	9
13-1032	Insurance Appraisers, Auto Damage	*	*	*	*	*	*	*	24.53	7
13-1041	Compliance Ofcr., Excl. Ag., Constr., Health & Trans.	37	46	9	24.32	1	0	1	22.09	9
13-1051	Cost Estimators	63	79	16	25.40	2	1	3	25.49	5
13-1061	Emergency Management Specialists	*	*	*	*	*	*	*	18.08	8
13-1071	Employment, Recruitment & Placement Specialists	43	53	10	23.26	1	1	2	19.53	5
13-1072	Compensation, Benefits & Job Analysis Specialists	58	67	9	15.52	1	2	3	27.46	5
13-1073	Training and Development Specialists	*	*	*	*	*	*	*	23.17	5
13-1079	Human Res., Trng. & Labor Relations Spec., Other	129	149	20	15.50	2	3	5	23.21	5
13-1081	Logisticians	*	*	*	*	*	*	*	30.93	5
13-1111	Management Analysts	44	49	5	11.36	1	1	2	33.10	4
13-1121	Meeting and Convention Planners	*	*	*	*	*	*	*	18.94	5
13-1199	Business Operations Specialists, All Other	236	258	22	9.32	2	5	7	28.23	5
<b>13-2000</b>	<b>Financial Specialists</b>	<b>332</b>	<b>370</b>	<b>38</b>	<b>11.45</b>	<b>4</b>	<b>5</b>	<b>9</b>	<b>n/a</b>	<b>n/a</b>
13-2011	Accountants and Auditors	155	172	17	10.97	2	3	5	26.98	5
13-2021	Appraisers and Assessors of Real Estate	*	*	*	*	*	*	*	25.43	6
13-2031	Budget Analysts	*	*	*	*	*	*	*	26.60	5
13-2041	Credit Analysts	*	*	*	*	*	*	*	31.38	5
13-2051	Financial Analysts	*	*	*	*	*	*	*	32.06	5
13-2052	Personal Financial Advisors	*	*	*	*	*	*	*	33.84	5
13-2053	Insurance Underwriters	*	*	*	*	*	*	*	25.05	5
13-2061	Financial Examiners	*	*	*	*	*	*	*	34.95	5
13-2071	Loan Counselors	*	*	*	*	*	*	*	18.82	5
13-2072	Loan Officers	72	79	7	9.72	1	1	2	25.15	10
13-2081	Tax Examiners, Collectors, and Revenue Agents	*	*	*	*	*	*	*	22.20	5
13-2082	Tax Preparers	*	*	*	*	*	*	*	13.24	10
13-2099	Financial Specialists, All Other	*	*	*	*	*	*	*	25.10	5

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

# FIVCO Area

## Computer & Mathematical Occupations

### Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>15-0000 Computer and Mathematical Occupations</b>		<b>253</b>	<b>316</b>	<b>63</b>	<b>24.90</b>	<b>6</b>	<b>5</b>	<b>11</b>	<b>29.46</b>	<b>n/a</b>
<b>15-1000</b>	<b>Computer Specialists</b>	<b>245</b>	<b>306</b>	<b>61</b>	<b>24.90</b>	<b>6</b>	<b>5</b>	<b>11</b>	<b>n/a</b>	<b>n/a</b>
15-1011	Computer and Information Scientists, Research	*	*	*	*	*	*	*	n/a	2
15-1021	Computer Programmers	*	*	*	*	*	*	*	32.94	5
15-1031	Computer Software Engineers, Applications	46	62	16	34.78	2	0	2	33.90	5
15-1032	Computer Software Engineers, Systems Software	*	*	*	*	*	*	*	38.46	5
15-1041	Computer Support Specialists	46	49	3	6.52	0	1	1	19.31	6
15-1051	Computer Systems Analysts	52	66	14	26.92	1	1	2	33.94	5
15-1061	Database Administrators	*	*	*	*	*	*	*	28.52	5
15-1071	Network and Computer Systems Administrators	45	52	7	15.56	1	1	2	25.23	5
15-1081	Network Systems & Data Communications Analysts	30	51	21	70.00	2	1	3	28.71	5
15-1099	Computer Specialists, All Other	*	*	*	*	*	*	*	32.16	6
<b>15-2000</b>	<b>Mathematical Scientists</b>	*	*	*	*	*	*	*	<b>n/a</b>	<b>n/a</b>
15-2011	Actuaries	*	*	*	*	*	*	*	39.47	4
15-2021	Mathematicians	*	*	*	*	*	*	*	n/a	2
15-2031	Operations Research Analysts	*	*	*	*	*	*	*	32.40	3
15-2041	Statisticians	*	*	*	*	*	*	*	30.18	3
15-2099	Mathematical Science Occupations, All Other	*	*	*	*	*	*	*	25.65	3

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Architecture & Engineering Occupations

### Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>17-0000</b>	<b>Architecture and Engineering Occupations</b>	<b>469</b>	<b>494</b>	<b>25</b>	<b>5.33</b>	<b>3</b>	<b>11</b>	<b>14</b>	<b>30.16</b>	<b>n/a</b>
<b>17-1000</b>	<b>Architects, Surveyors, and Cartographers</b>	<b>69</b>	<b>73</b>	<b>4</b>	<b>5.80</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>n/a</b>	<b>n/a</b>
17-1011	Architects, Excl. Landscape and Naval	*	*	*	*	*	*	*	29.63	5
17-1012	Landscape Architects	*	*	*	*	*	*	*	24.72	5
17-1021	Cartographers and Photogrammetrists	*	*	*	*	*	*	*	20.53	5
17-1022	Surveyors	61	64	3	4.92	0	2	2	23.83	5
<b>17-2000</b>	<b>Engineers</b>	<b>239</b>	<b>250</b>	<b>11</b>	<b>4.60</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>n/a</b>	<b>n/a</b>
17-2011	Aerospace Engineers	*	*	*	*	*	*	*	46.45	5
17-2021	Agricultural Engineers	*	*	*	*	*	*	*	40.88	5
17-2031	Biomedical Engineers	*	*	*	*	*	*	*	n/a	5
17-2041	Chemical Engineers	*	*	*	*	*	*	*	42.62	5
17-2051	Civil Engineers	*	*	*	*	*	*	*	33.46	5
17-2061	Computer Hardware Engineers	*	*	*	*	*	*	*	45.48	5
17-2071	Electrical Engineers	*	*	*	*	*	*	*	37.85	5
17-2072	Electronics Engineers, Excl. Computer	48	55	7	14.58	1	1	2	39.45	5
17-2081	Environmental Engineers	*	*	*	*	*	*	*	33.57	5
17-2111	Health & Safety Engineers., Excl. Mining Safety	*	*	*	*	*	*	*	33.77	5
17-2112	Industrial Engineers	*	*	*	*	*	*	*	33.89	5
17-2121	Marine Engineers and Naval Architects	*	*	*	*	*	*	*	n/a	5
17-2131	Materials Engineers	*	*	*	*	*	*	*	35.19	5
17-2141	Mechanical Engineers	54	55	1	1.85	0	1	1	33.72	5
17-2151	Mining & Geological Engineers., Incl. Mining Safety	*	*	*	*	*	*	*	35.79	5
17-2161	Nuclear Engineers	*	*	*	*	*	*	*	37.46	5
17-2171	Petroleum Engineers	*	*	*	*	*	*	*	46.53	5
17-2199	Engineers, All Other	*	*	*	*	*	*	*	35.59	5

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Architecture & Engineering Occs. (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
<b>17-3000</b>	<b>Drafters, Engineering, and Mapping Technicians</b>	<b>161</b>	<b>171</b>	<b>10</b>	<b>6.21</b>	<b>1</b>	<b>3</b>	<b>4</b>	<b>n/a</b>	<b>n/a</b>
17-3011	Architectural and Civil Drafters	*	*	*	*	*	*	*	18.19	7
17-3012	Electrical and Electronics Drafters	*	*	*	*	*	*	*	27.34	7
17-3013	Mechanical Drafters	49	52	3	6.12	0	1	1	20.89	7
17-3019	Drafters, All Other	*	*	*	*	*	*	*	22.35	7
17-3021	Aerospace Engineering and Operations Techs.	*	*	*	*	*	*	*	25.57	6
17-3022	Civil Engineering Technicians	*	*	*	*	*	*	*	21.26	6
17-3023	Electrical and Electronic Engineering Technicians	*	*	*	*	*	*	*	25.64	6
17-3024	Electro-Mechanical Technicians	*	*	*	*	*	*	*	23.48	6
17-3025	Environmental Engineering Technicians	*	*	*	*	*	*	*	20.53	6
17-3026	Industrial Engineering Technicians	*	*	*	*	*	*	*	22.82	6
17-3027	Mechanical Engineering Technicians	*	*	*	*	*	*	*	22.27	6
17-3029	Engineering Techs., Except Drafters, All Other	*	*	*	*	*	*	*	22.02	6
17-3031	Surveying and Mapping Technicians	48	55	7	14.58	1	1	2	16.84	10

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Life, Physical & Social Science Occupations

### Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>19-0000 Life, Physical, and Social Science Occupations</b>		<b>213</b>	<b>208</b>	<b>-5</b>	<b>-2.35</b>	<b>1</b>	<b>6</b>	<b>7</b>	<b>24.83</b>	<b>n/a</b>
<b>19-1000</b>	<b>Life Scientists</b>	*	*	*	*	*	*	*	<b>n/a</b>	<b>n/a</b>
19-1011	Animal Scientists	*	*	*	*	*	*	*	30.52	2
19-1012	Food Scientists and Technologists	*	*	*	*	*	*	*	32.09	5
19-1013	Soil and Plant Scientists	*	*	*	*	*	*	*	25.25	5
19-1021	Biochemists and Biophysicists	*	*	*	*	*	*	*	25.02	2
19-1022	Microbiologists	*	*	*	*	*	*	*	24.33	2
19-1023	Zoologists and Wildlife Biologists	*	*	*	*	*	*	*	n/a	5
19-1029	Biological Scientists, All Other	*	*	*	*	*	*	*	27.66	2
19-1031	Conservation Scientists	*	*	*	*	*	*	*	31.54	5
19-1032	Foresters	*	*	*	*	*	*	*	21.10	5
19-1041	Epidemiologists	*	*	*	*	*	*	*	26.23	3
19-1042	Medical Scientists, Excl. Epidemiologists	*	*	*	*	*	*	*	25.10	2
19-1099	Life Scientists, All Other	*	*	*	*	*	*	*	25.09	5
<b>19-2000</b>	<b>Physical Scientists</b>	<b>53</b>	<b>49</b>	<b>-4</b>	<b>-7.55</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>n/a</b>	<b>n/a</b>
19-2011	Astronomers	*	*	*	*	*	*	*	n/a	2
19-2012	Physicists	*	*	*	*	*	*	*	67.82	2
19-2021	Atmospheric and Space Scientists	*	*	*	*	*	*	*	43.73	5
19-2031	Chemists	42	38	-4	-9.52	0	1	1	28.91	5
19-2032	Materials Scientists	*	*	*	*	*	*	*	29.43	5
19-2041	Environmental Scientists & Specialists, Incl. Health	*	*	*	*	*	*	*	26.06	3
19-2042	Geoscientists, Excl. Hydrologists & Geographers	*	*	*	*	*	*	*	29.11	3
19-2043	Hydrologists	*	*	*	*	*	*	*	n/a	3
19-2099	Physical Scientists, All Other	*	*	*	*	*	*	*	31.56	5

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Life, Physical & Social Science Occs. (cont'd)

### Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>19-3000</b>	<b>Social Scientists and Related Workers</b>	<b>58</b>	<b>64</b>	<b>6</b>	<b>10.34</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>n/a</b>	<b>n/a</b>
19-3011	Economists	*	*	*	*	*	*	*	27.67	3
19-3021	Market Research Analysts	*	*	*	*	*	*	*	30.58	5
19-3022	Survey Researchers	*	*	*	*	*	*	*	21.18	5
19-3031	Clinical, Counseling, and School Psychologists	*	*	*	*	*	*	*	26.66	2
19-3039	Psychologists, All Other	*	*	*	*	*	*	*	35.29	3
19-3051	Urban and Regional Planners	*	*	*	*	*	*	*	20.03	3
19-3091	Anthropologists and Archeologists	*	*	*	*	*	*	*	23.10	3
19-3092	Geographers	*	*	*	*	*	*	*	31.53	3
19-3093	Historians	*	*	*	*	*	*	*	18.82	3
19-3094	Political Scientists	*	*	*	*	*	*	*	n/a	3
19-3099	Social Scientists and Related Workers, All Other	*	*	*	*	*	*	*	28.60	3
<b>19-4000</b>	<b>Life, Physical, and Social Science Technicians</b>	<b>88</b>	<b>80</b>	<b>-8</b>	<b>-9.09</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>n/a</b>	<b>n/a</b>
19-4011	Agricultural and Food Science Technicians	*	*	*	*	*	*	*	16.64	6
19-4021	Biological Technicians	*	*	*	*	*	*	*	16.20	5
19-4031	Chemical Technicians	79	70	-9	-11.39	0	2	2	19.60	6
19-4041	Geological and Petroleum Technicians	*	*	*	*	*	*	*	26.86	6
19-4061	Social Science Research Assistants	*	*	*	*	*	*	*	16.37	6
19-4091	Environmental Sci. & Protection Techs., Incl. Health	*	*	*	*	*	*	*	19.96	6
19-4092	Forensic Science Technicians	*	*	*	*	*	*	*	20.27	5
19-4093	Forest and Conservation Technicians	*	*	*	*	*	*	*	n/a	6
19-4099	Life, Physical & Social Science Techs., All Other	*	*	*	*	*	*	*	18.39	6

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Community & Social Service Occupations

### Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>21-0000 Community and Social Services Occupations</b>		<b>614</b>	<b>694</b>	<b>80</b>	<b>13.03</b>	<b>8</b>	<b>14</b>	<b>22</b>	<b>18.41</b>	<b>n/a</b>
<b>21-1000</b>	<b>Counselors, Social Workers, Other Specialists</b>	<b>604</b>	<b>683</b>	<b>79</b>	<b>13.08</b>	<b>8</b>	<b>14</b>	<b>22</b>	<b>n/a</b>	<b>n/a</b>
21-1011	Substance Abuse & Behavioral Disorder Couns.	*	*	*	*	*	*	*	16.95	5
21-1012	Educational, Vocational, and School Counselors	86	93	7	8.14	1	2	3	27.16	3
21-1013	Marriage and Family Therapists	*	*	*	*	*	*	*	20.79	3
21-1014	Mental Health Counselors	*	*	*	*	*	*	*	18.20	3
21-1015	Rehabilitation Counselors	55	64	9	16.36	1	1	2	17.38	3
21-1019	Counselors, All Other	*	*	*	*	*	*	*	13.76	3
21-1021	Child, Family, and School Social Workers	182	191	9	4.95	1	5	6	18.16	5
21-1022	Medical and Public Health Social Workers	43	52	9	20.93	1	1	2	20.05	5
21-1023	Mental Health & Substance Abuse Social Workers	34	41	7	20.59	1	1	2	18.00	3
21-1029	Social Workers, All Other	*	*	*	*	*	*	*	23.89	5
21-1091	Health Educators	*	*	*	*	*	*	*	18.55	5
21-1092	Probation Officers & Correctional Treatment Spec.	*	*	*	*	*	*	*	18.36	5
21-1093	Social and Human Service Assistants	110	134	24	21.82	2	2	4	12.30	10
21-1099	Community & Social Service Specialists, All Other	*	*	*	*	*	*	*	18.05	5
<b>21-2000</b>	<b>Religious Workers</b>	*	*	*	*	*	*	*	<b>n/a</b>	<b>n/a</b>
21-2011	Clergy	*	*	*	*	*	*	*	23.01	3
21-2021	Directors, Religious Activities and Education	*	*	*	*	*	*	*	37.84	5
21-2099	Religious Workers, All Other	*	*	*	*	*	*	*	10.81	5

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Legal Occupations

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage 2010	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total		
<b>23-0000</b>	<b>Legal Occupations</b>	116	125	9	7.76	1	2	3	34.32	n/a
<b>23-1000</b>	<b>Lawyers, Judges, and Related Workers</b>	83	87	4	4.82	1	2	3	n/a	n/a
23-1011	Lawyers	76	81	5	6.58	1	1	2	47.36	1
23-1021	Adm. Law Judges, Adjudicators & Hearing Officers	*	*	*	*	*	*	*	n/a	4
23-1022	Arbitrators, Mediators, and Conciliators	*	*	*	*	*	*	*	29.07	4
23-1023	Judges, Magistrate Judges, and Magistrates	*	*	*	*	*	*	*	62.50	4
<b>23-2000</b>	<b>Legal Support Workers</b>	33	38	5	15.15	1	0	1	n/a	n/a
23-2011	Paralegals and Legal Assistants	*	*	*	*	*	*	*	19.38	6
23-2091	Court Reporters	*	*	*	*	*	*	*	24.70	7
23-2092	Law Clerks	*	*	*	*	*	*	*	16.25	5
23-2093	Title Examiners, Abstractors, and Searchers	*	*	*	*	*	*	*	16.98	10
23-2099	Legal Support Workers, All Other	*	*	*	*	*	*	*	19.98	10

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Education, Training & Library Occupations

### Occupational Employment Outlook

Occupational Code	Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>25-0000 Education, Training, and Library Occupations</b>		<b>3,031</b>	<b>3,316</b>	<b>285</b>	<b>9.40</b>	<b>29</b>	<b>69</b>	<b>98</b>	<b>22.32</b>	<b>n/a</b>
<b>25-1000</b>	<b>Postsecondary Teachers</b>	<b>291</b>	<b>322</b>	<b>31</b>	<b>10.65</b>	<b>3</b>	<b>5</b>	<b>8</b>	<b>n/a</b>	<b>n/a</b>
25-1011	Business Teachers, Postsecondary **	*	*	*	*	*	*	*	50.58	2
25-1021	Computer Science Teachers, Postsecondary **	*	*	*	*	*	*	*	44.24	2
25-1022	Mathematical Science Teachers, Postsecondary **	*	*	*	*	*	*	*	39.77	2
25-1031	Architecture Teachers, Postsecondary **	*	*	*	*	*	*	*	39.85	2
25-1032	Engineering Teachers, Postsecondary **	*	*	*	*	*	*	*	61.65	2
25-1041	Agricultural Sciences Teachers, Postsecondary **	*	*	*	*	*	*	*	50.43	2
25-1042	Biological Science Teachers, Postsecondary **	*	*	*	*	*	*	*	43.32	2
25-1043	Forestry & Conservation Sci. Teachers, Post. **	*	*	*	*	*	*	*	n/a	2
25-1051	Atmospheric, Earth, Marine & Space Sci., Post. **	*	*	*	*	*	*	*	44.93	2
25-1052	Chemistry Teachers, Postsecondary **	*	*	*	*	*	*	*	43.25	2
25-1053	Environmental Science Teachers, Postsecondary**	*	*	*	*	*	*	*	n/a	2
25-1054	Physics Teachers, Postsecondary **	*	*	*	*	*	*	*	42.43	2
25-1061	Anthropology and Archeology Teachers, Post. **	*	*	*	*	*	*	*	42.53	2
25-1062	Area, Ethnic & Cultural Studies Teachers, Post. **	*	*	*	*	*	*	*	40.78	2
25-1063	Economics Teachers, Postsecondary **	*	*	*	*	*	*	*	54.57	2
25-1064	Geography Teachers, Postsecondary **	*	*	*	*	*	*	*	38.31	2
25-1065	Political Science Teachers, Postsecondary **	*	*	*	*	*	*	*	45.01	2
25-1066	Psychology Teachers, Postsecondary **	*	*	*	*	*	*	*	41.14	2
25-1067	Sociology Teachers, Postsecondary **	*	*	*	*	*	*	*	36.75	2
25-1069	Social Sciences Teachers, Post., All Other **	*	*	*	*	*	*	*	37.74	2
25-1071	Health Specialties Teachers, Postsecondary **	*	*	*	*	*	*	*	64.95	2
25-1072	Nursing Instructors & Teachers, Postsecondary **	*	*	*	*	*	*	*	43.23	2
25-1081	Education Teachers, Postsecondary **	*	*	*	*	*	*	*	38.21	2
25-1082	Library Science Teachers, Postsecondary **	*	*	*	*	*	*	*	37.52	2
25-1111	Crim. Justice & Law Enforcement Teachers, Post. **	*	*	*	*	*	*	*	39.76	2
25-1112	Law Teachers, Postsecondary **	*	*	*	*	*	*	*	68.47	2
25-1113	Social Work Teachers, Postsecondary **	*	*	*	*	*	*	*	36.46	2

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

\*\* Average hourly wages for these teacher occupations were calculated by assuming 9.5 working months per year at 40 hours per week.

# FIVCO Area

## Education, Training & Library Occs. (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
25-1121	Art, Drama, and Music Teachers, Postsecondary **	*	*	*	*	*	*	*	36.50	2
25-1122	Communications Teachers, Postsecondary **	*	*	*	*	*	*	*	36.59	2
25-1123	English Language & Lit. Teachers, Post. **	*	*	*	*	*	*	*	34.33	2
25-1124	Foreign Language and Literature Teachers, Post. **	*	*	*	*	*	*	*	34.67	2
25-1125	History Teachers, Postsecondary **	*	*	*	*	*	*	*	37.79	2
25-1126	Philosophy and Religion Teachers, Post. **	*	*	*	*	*	*	*	34.69	2
25-1191	Graduate Teaching Assistants	*	*	*	*	*	*	*	n/a	2
25-1192	Home Economics Teachers, Postsecondary **	*	*	*	*	*	*	*	45.80	2
25-1193	Recreation and Fitness Studies Teachers, Post. **	*	*	*	*	*	*	*	33.49	2
25-1194	Vocational Education Teachers, Postsecondary	148	164	16	10.81	2	3	5	23.58	2
25-1199	Postsecondary Teachers, All Other **	45	50	5	11.11	1	1	2	34.95	2
<b>25-2000</b>	<b>Primary, Secondary &amp; Special Ed. Teachers</b>	<b>1,621</b>	<b>1,784</b>	<b>163</b>	<b>10.06</b>	<b>16</b>	<b>40</b>	<b>56</b>	<b>n/a</b>	<b>n/a</b>
25-2011	Preschool Teachers, Excl. Special Education	103	112	9	8.74	1	2	3	13.10	7
25-2012	Kindergarten Teachers, Excl. Special Education **	*	*	*	*	*	*	*	29.32	5
25-2021	Elementary School Teachers, Excl. Special Ed. **	627	702	75	11.96	8	14	22	29.01	5
25-2022	Middle School Teachers, Excl. Special & Voc. Ed. **	253	282	29	11	3	6	9	29.61	5
25-2023	Vocational Education Teachers, Middle School **	*	*	*	*	*	*	*	32.27	4
25-2031	Sec. School Teachers, Excl. Special and Voc. Ed. **	395	414	19	4.81	2	12	14	30.31	5
25-2032	Vocational Ed. Teachers, Secondary School **	*	*	*	*	*	*	*	33.82	4
25-2041	Spec. Ed. Teachers, Pre., Kinder. & Elem. School **	92	106	14	15.22	1	2	3	29.03	5
25-2042	Special Education Teachers, Middle School **	55	63	8	14.55	1	1	2	29.38	5
25-2043	Special Education Teachers, Secondary School **	57	62	5	8.77	1	2	3	29.88	5
<b>25-3000</b>	<b>Other Teachers and Instructors</b>	<b>208</b>	<b>232</b>	<b>24</b>	<b>11.54</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>n/a</b>	<b>n/a</b>
25-3011	Adult Literacy, Remedial Ed. & GED Teachers	*	*	*	*	*	*	*	17.32	5
25-3021	Self-Enrichment Education Teachers	*	*	*	*	*	*	*	13.33	8
25-3099	Teachers and Instructors, All Other **	196	218	22	11.22	2	3	5	19.67	5
<b>25-4000</b>	<b>Librarians, Curators, and Archivists</b>	<b>119</b>	<b>128</b>	<b>9</b>	<b>8</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>n/a</b>	<b>n/a</b>
25-4011	Archivists	*	*	*	*	*	*	*	18.24	3
25-4012	Curators	*	*	*	*	*	*	*	22.95	3
25-4013	Museum Technicians and Conservators	*	*	*	*	*	*	*	17.29	5
25-4021	Librarians	94	100	6	6.38	1	3	4	25.17	3
25-4031	Library Technicians	*	*	*	*	*	*	*	13.10	7

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

\*\* Average hourly wages for these teacher occupations were calculated by assuming 9.5 working months per year at 40 hours per week.

# FIVCO Area

## Education, Training & Library Occs. (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2008	2018	2008-2018		Average Annual 2008-2018			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	Req'd~
<b>25-9000</b>	<b>Other Education, Training, and Library Occupations</b>	<b>792</b>	<b>850</b>	<b>58</b>	<b>7.32</b>	<b>6</b>	<b>17</b>	<b>23</b>	<b>n/a</b>	<b>n/a</b>
25-9011	Audio-Visual Collections Specialists	*	*	*	*	*	*	*	n/a	5
25-9021	Farm and Home Management Advisors	*	*	*	*	*	*	*	n/a	5
25-9031	Instructional Coordinators	*	*	*	*	*	*	*	27.61	3
25-9041	Teacher Assistants **	674	714	40	5.93	4	14	18	n/a	11
25-9099	Education, Training, and Library Workers, All Other	89	101	12	13.48	1	2	3	21.44	5

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

\*\* Average hourly wages for these teacher occupations were calculated by assuming 9.5 working months per year at 40 hours per week.

# FIVCO Area

## Arts, Design, Entertainment, Sports & Media Occs.

### Occupational Employment Outlook

Occupational Code	Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>27-0000</b>	<b>Arts, Design, Entertainment, Sports &amp; Media Occs.</b>	<b>363</b>	<b>367</b>	<b>4</b>	<b>1.10</b>	<b>2</b>	<b>9</b>	<b>11</b>	<b>17.49</b>	<b>n/a</b>
<b>27-1000</b>	<b>Art and Design Workers</b>	<b>84</b>	<b>81</b>	<b>-3</b>	<b>-3.57</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>n/a</b>	<b>n/a</b>
27-1011	Art Directors	*	*	*	*	*	*	*	29.61	4
27-1012	Craft Artists	*	*	*	*	*	*	*	11.33	9
27-1013	Fine Artists, Incl. Painters, Sculptors & Illustrators	*	*	*	*	*	*	*	16.07	9
27-1014	Multi-Media Artists and Animators	*	*	*	*	*	*	*	25.41	5
27-1019	Artists and Related Workers, All Other	*	*	*	*	*	*	*	10.59	9
27-1021	Commercial and Industrial Designers	*	*	*	*	*	*	*	23.50	5
27-1022	Fashion Designers	*	*	*	*	*	*	*	18.36	6
27-1023	Floral Designers	55	52	-3	-5.45	0	2	2	9.77	11
27-1024	Graphic Designers	*	*	*	*	*	*	*	17.45	5
27-1025	Interior Designers	*	*	*	*	*	*	*	17.30	6
27-1026	Merchandise Displayers and Window Trimmers	*	*	*	*	*	*	*	12.71	10
27-1027	Set and Exhibit Designers	*	*	*	*	*	*	*	15.35	5
27-1029	Designers, All Other	*	*	*	*	*	*	*	13.74	5
<b>27-2000</b>	<b>Entertainers, Performers, Sports &amp; Related</b>	*	*	*	*	*	*	*	<b>n/a</b>	<b>n/a</b>
27-2011	Actors	*	*	*	*	*	*	*	10.81	9
27-2012	Producers and Directors	*	*	*	*	*	*	*	19.10	4
27-2021	Athletes and Sports Competitors	*	*	*	*	*	*	*	n/a	9
27-2022	Coaches and Scouts	*	*	*	*	*	*	*	n/a	9
27-2023	Umpires, Referees, and Other Sports Officials	*	*	*	*	*	*	*	n/a	9
27-2031	Dancers	*	*	*	*	*	*	*	n/a	9
27-2032	Choreographers	*	*	*	*	*	*	*	12.70	8
27-2041	Music Directors and Composers	*	*	*	*	*	*	*	16.63	4
27-2042	Musicians and Singers	*	*	*	*	*	*	*	17.70	9
27-2099	Entertainers & Performers, Sports & Related, Other	*	*	*	*	*	*	*	18.49	9

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

Arts, Design, Entertainment, Sports, Media Occs. (cont'd)

## Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>27-3000</b>	<b>Media and Communication Workers</b>	<b>180</b>	<b>186</b>	<b>6</b>	<b>3.33</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>n/a</b>	<b>n/a</b>
27-3011	Radio and Television Announcers	*	*	*	*	*	*	*	11.77	9
27-3012	Public Address System and Other Announcers	*	*	*	*	*	*	*	10.12	10
27-3021	Broadcast News Analysts	*	*	*	*	*	*	*	17.13	5
27-3022	Reporters and Correspondents	*	*	*	*	*	*	*	17.86	5
27-3031	Public Relations Specialists	71	85	14	19.72	1	2	3	21.67	5
27-3041	Editors	*	*	*	*	*	*	*	21.42	5
27-3042	Technical Writers	*	*	*	*	*	*	*	25.88	5
27-3043	Writers and Authors	38	38	0	0.00	0	1	1	19.17	5
27-3091	Interpreters and Translators	*	*	*	*	*	*	*	19.13	9
27-3099	Media and Communication Workers, All Other	*	*	*	*	*	*	*	19.91	9
<b>27-4000</b>	<b>Media and Communication Equipment Workers</b>	<b>70</b>	<b>70</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>n/a</b>	<b>n/a</b>
27-4011	Audio and Video Equipment Technicians	*	*	*	*	*	*	*	19.60	7
27-4012	Broadcast Technicians	*	*	*	*	*	*	*	18.95	6
27-4014	Sound Engineering Technicians	*	*	*	*	*	*	*	18.37	7
27-4021	Photographers	60	61	1	1.67	0	1	1	14.51	9
27-4031	Camera Operators, TV, Video & Motion Picture	*	*	*	*	*	*	*	20.85	5
27-4032	Film and Video Editors	*	*	*	*	*	*	*	18.18	5
27-4099	Media and Communication Equip. Workers, Other	*	*	*	*	*	*	*	19.47	10

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Healthcare Practitioners & Technical Occs.

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage 2010	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total		
<b>29-0000 Healthcare Practitioners and Technical Occupations</b>		<b>4,539</b>	<b>5,534</b>	<b>995</b>	<b>21.92</b>	<b>100</b>	<b>91</b>	<b>191</b>	<b>29.73</b>	<b>n/a</b>
<b>29-1000</b>	<b>Health Diagnosing and Treating Practitioners</b>	<b>2,735</b>	<b>3,387</b>	<b>652</b>	<b>23.84</b>	<b>65</b>	<b>50</b>	<b>115</b>	<b>n/a</b>	<b>n/a</b>
29-1011	Chiropractors	*	*	*	*	*	*	*	48.15	1
29-1021	Dentists, General	61	72	11	18.03	1	2	3	72.52	1
29-1022	Oral and Maxillofacial Surgeons	*	*	*	*	*	*	*	n/a	1
29-1023	Orthodontists	*	*	*	*	*	*	*	92.18	1
29-1029	Dentists, All Other	*	*	*	*	*	*	*	43.18	1
29-1031	Dietitians and Nutritionists	*	*	*	*	*	*	*	23.96	5
29-1041	Optometrists	*	*	*	*	*	*	*	57.32	1
29-1051	Pharmacists	116	134	18	15.52	2	3	5	51.31	1
29-1061	Anesthesiologists	110	146	36	32.73	4	2	6	n/a	1
29-1062	Family and General Practitioners	*	*	*	*	*	*	*	79.79	1
29-1063	Internists, General	*	*	*	*	*	*	*	91.24	1
29-1064	Obstetricians and Gynecologists	*	*	*	*	*	*	*	83.05	1
29-1065	Pediatricians, General	*	*	*	*	*	*	*	93.66	1
29-1066	Psychiatrists	*	*	*	*	*	*	*	86.58	1
29-1067	Surgeons	32	42	10	31.25	1	1	2	102.22	1
29-1069	Physicians and Surgeons, All Other	145	185	40	27.59	4	3	7	81.85	1
29-1071	Physician Assistants	37	55	18	48.65	2	1	3	39.81	3
29-1081	Podiatrists	*	*	*	*	*	*	*	70.21	1
29-1111	Registered Nurses	1,841	2,278	437	23.74	44	32	76	28.19	6
29-1121	Audiologists	*	*	*	*	*	*	*	37.82	1
29-1122	Occupational Therapists	*	*	*	*	*	*	*	34.25	3
29-1123	Physical Therapists	72	97	25	34.72	3	1	4	36.73	3
29-1124	Radiation Therapists	*	*	*	*	*	*	*	31.12	6
29-1125	Recreational Therapists	*	*	*	*	*	*	*	19.08	5
29-1126	Respiratory Therapists	*	*	*	*	*	*	*	21.62	6
29-1127	Speech-Language Pathologists	66	70	4	6.06	0	1	1	28.90	3
29-1129	Therapists, All Other	*	*	*	*	*	*	*	34.79	5
29-1131	Veterinarians	*	*	*	*	*	*	*	46.09	1
29-1199	Health Diagnosing & Treating Practitioners, Other	*	*	*	*	*	*	*	28.92	5

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Healthcare Practitioners & Tech. Occs. (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
<b>29-2000</b>	<b>Health Technologists and Technicians</b>	<b>1,776</b>	<b>2,116</b>	<b>340</b>	<b>19.14</b>	<b>34</b>	<b>41</b>	<b>75</b>	<b>n/a</b>	<b>n/a</b>
29-2011	Medical and Clinical Laboratory Technologists	66	70	4	6.06	0	1	1	24.44	5
29-2012	Medical and Clinical Laboratory Technicians	48	49	1	2.08	0	1	1	17.14	6
29-2021	Dental Hygienists	58	81	23	39.66	2	1	3	27.01	6
29-2031	Cardiovascular Technologists and Technicians	41	51	10	24.39	1	1	2	20.12	6
29-2032	Diagnostic Medical Sonographers	35	43	8	22.86	1	1	2	27.13	6
29-2033	Nuclear Medicine Technologists	*	*	*	*	*	*	*	27.90	6
29-2034	Radiologic Technologists and Technicians	259	306	47	18.15	5	4	9	22.23	6
29-2041	Emergency Medical Technicians and Paramedics	359	399	40	11.14	4	7	11	13.62	7
29-2051	Dietetic Technicians	*	*	*	*	*	*	*	12.04	7
29-2052	Pharmacy Technicians	154	199	45	29.22	5	4	9	11.88	10
29-2053	Psychiatric Technicians	*	*	*	*	*	*	*	11.98	7
29-2054	Respiratory Therapy Technicians	*	*	*	*	*	*	*	19.94	7
29-2055	Surgical Technologists	68	84	16	23.53	2	2	4	17.08	7
29-2056	Veterinary Technologists and Technicians	*	*	*	*	*	*	*	12.82	6
29-2061	Licensed Practical & Licensed Voc. Nurses	482	588	106	21.99	11	15	26	17.53	7
29-2071	Medical Records & Health Info. Technicians	95	119	24	25.26	2	2	4	15.24	6
29-2081	Opticians, Dispensing	*	*	*	*	*	*	*	16.20	9
29-2091	Orthotists and Prosthetists	*	*	*	*	*	*	*	34.86	5
29-2099	Health Technologists and Technicians, All Other	30	33	3	10.00	0	1	1	21.04	7
<b>29-9000</b>	<b>Other Healthcare Practitioners &amp; Technical Occs.</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>n/a</b>	<b>n/a</b>
29-9011	Occupational Health and Safety Specialists	*	*	*	*	*	*	*	29.77	5
29-9012	Occupational Health and Safety Technicians	*	*	*	*	*	*	*	19.57	6
29-9091	Athletic Trainers	*	*	*	*	*	*	*	n/a	5
29-9099	Healthcare Practitioners & Tech. Workers, Other	*	*	*	*	*	*	*	26.11	5

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Healthcare Support Occupations

### Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>31-0000 Healthcare Support Occupations</b>		<b>1,853</b>	<b>2,286</b>	<b>433</b>	<b>23.37</b>	<b>44</b>	<b>20</b>	<b>64</b>	<b>12.33</b>	<b>n/a</b>
<b>31-1000</b>	<b>Nursing, Psychiatric, and Home Health Aides</b>	<b>1,056</b>	<b>1,310</b>	<b>254</b>	<b>24.05</b>	<b>25</b>	<b>11</b>	<b>36</b>	<b>n/a</b>	<b>n/a</b>
31-1011	Home Health Aides	*	*	*	*	*	*	*	10.49	11
31-1012	Nursing Aides, Orderlies, and Attendants	1,002	1,230	228	22.75	23	10	33	10.79	7
31-1013	Psychiatric Aides	*	*	*	*	*	*	*	12.29	11
<b>31-2000</b>	<b>Occupational &amp; Physical Therapist Assis. &amp; Aides</b>	<b>85</b>	<b>107</b>	<b>22</b>	<b>25.88</b>	<b>2</b>	<b>1</b>	<b>3</b>	<b>n/a</b>	<b>n/a</b>
31-2011	Occupational Therapist Assistants	*	*	*	*	*	*	*	24.71	6
31-2012	Occupational Therapist Aides	*	*	*	*	*	*	*	14.60	11
31-2021	Physical Therapist Assistants	58	74	16	27.59	2	1	3	23.02	6
31-2022	Physical Therapist Aides	*	*	*	*	*	*	*	12.35	11
<b>31-9000</b>	<b>Other Healthcare Support Occupations</b>	<b>712</b>	<b>869</b>	<b>157</b>	<b>22.05</b>	<b>16</b>	<b>9</b>	<b>25</b>	<b>n/a</b>	<b>n/a</b>
31-9011	Massage Therapists	*	*	*	*	*	*	*	16.68	7
31-9091	Dental Assistants	79	110	31	39.24	3	2	5	15.38	10
31-9092	Medical Assistants	238	322	84	35.29	8	3	11	12.88	10
31-9093	Medical Equipment Preparers	*	*	*	*	*	*	*	13.02	11
31-9094	Medical Transcriptionists	122	132	10	8.20	1	1	2	13.99	7
31-9095	Pharmacy Aides	35	30	-5	-14.29	0	0	0	10.91	11
31-9096	Veterinary Assist. & Laboratory Animal Caretakers	54	62	8	14.81	1	1	2	10.09	11
31-9099	Healthcare Support Workers, All Other	128	149	21	16.41	2	1	3	14.65	11

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Protective Service Occupations

### Occupational Employment Outlook

Occupational Code	Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>33-0000</b>	<b>Protective Service Occupations</b>	<b>874</b>	<b>948</b>	<b>74</b>	<b>8.47</b>	<b>7</b>	<b>24</b>	<b>31</b>	<b>15.46</b>	<b>n/a</b>
<b>33-1000</b>	<b>Managers, Protective Service Workers</b>	<b>103</b>	<b>109</b>	<b>6</b>	<b>5.83</b>	<b>1</b>	<b>4</b>	<b>5</b>	<b>n/a</b>	<b>n/a</b>
33-1011	Managers of Correctional Officers	33	34	1	3.03	0	1	1	21.92	8
33-1012	Managers of Police and Detectives	*	*	*	*	*	*	*	28.68	8
33-1021	Managers of Fire Fighting and Prevention Workers	*	*	*	*	*	*	*	25.25	8
33-1099	Managers, Protective Service Workers, All Other	*	*	*	*	*	*	*	18.09	8
<b>33-2000</b>	<b>Fire Fighting and Prevention Workers</b>	<b>53</b>	<b>59</b>	<b>6</b>	<b>11.32</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>n/a</b>	<b>n/a</b>
33-2011	Fire Fighters	47	53	6	12.77	1	1	2	16.53	9
33-2021	Fire Inspectors and Investigators	*	*	*	*	*	*	*	20.22	8
33-2022	Forest Fire Inspectors and Prevention Specialists	*	*	*	*	*	*	*	n/a	8
<b>33-3000</b>	<b>Law Enforcement Workers</b>	<b>451</b>	<b>485</b>	<b>34</b>	<b>7.54</b>	<b>3</b>	<b>10</b>	<b>13</b>	<b>n/a</b>	<b>n/a</b>
33-3011	Bailiffs	*	*	*	*	*	*	*	10.75	10
33-3012	Correctional Officers and Jailers	302	321	19	6.29	2	7	9	14.19	10
33-3021	Detectives and Criminal Investigators	*	*	*	*	*	*	*	27.56	8
33-3031	Fish and Game Wardens	*	*	*	*	*	*	*	19.13	6
33-3041	Parking Enforcement Workers	*	*	*	*	*	*	*	12.88	11
33-3051	Police and Sheriff's Patrol Officers	118	129	11	9.32	1	3	4	18.59	9
33-3052	Transit and Railroad Police	*	*	*	*	*	*	*	n/a	9
<b>33-9000</b>	<b>Other Protective Service Workers</b>	<b>267</b>	<b>295</b>	<b>28</b>	<b>10.49</b>	<b>3</b>	<b>8</b>	<b>11</b>	<b>n/a</b>	<b>n/a</b>
33-9011	Animal Control Workers	*	*	*	*	*	*	*	11.20	10
33-9021	Private Detectives and Investigators	*	*	*	*	*	*	*	16.74	8
33-9031	Gaming Surveillance Ofc's. & Gaming Investigators	*	*	*	*	*	*	*	n/a	10
33-9032	Security Guards	213	232	19	8.92	2	4	6	11.61	11
33-9091	Crossing Guards	*	*	*	*	*	*	*	11.80	11
33-9092	Lifeguards, Ski Patrol & Rec. Protective Workers	*	*	*	*	*	*	*	8.34	11
33-9099	Protective Service Workers, All Other	*	*	*	*	*	*	*	14.90	11

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Food Preparation & Serving Related Occs.

### Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>35-0000 Food Preparation and Serving Related Occupations</b>		<b>4,684</b>	<b>5,041</b>	<b>357</b>	<b>7.62</b>	<b>36</b>	<b>145</b>	<b>181</b>	<b>9.10</b>	<b>n/a</b>
<b>35-1000 Supervisors, Food Preparation &amp; Serving Workers</b>		*	*	*	*	*	*	*	<b>n/a</b>	<b>n/a</b>
35-1011 Chefs and Head Cooks		*	*	*	*	*	*	*	19.74	8
35-1012 Managers of Food Preparation & Serving Workers		*	*	*	*	*	*	*	13.37	8
<b>35-2000 Cooks and Food Preparation Workers</b>		<b>1,566</b>	<b>1,636</b>	<b>70</b>	<b>4.47</b>	<b>7</b>	<b>46</b>	<b>53</b>	<b>n/a</b>	<b>n/a</b>
35-2011 Cooks, Fast Food		345	368	23	6.67	2	9	11	7.95	11
35-2012 Cooks, Institution and Cafeteria		319	321	2	0.63	0	8	8	10.69	10
35-2013 Cooks, Private Household		*	*	*	*	*	*	*	n/a	9
35-2014 Cooks, Restaurant		352	377	25	7.10	3	9	12	9.59	9
35-2015 Cooks, Short Order		*	*	*	*	*	*	*	8.01	11
35-2019 Cooks, All Other		*	*	*	*	*	*	*	10.50	10
35-2021 Food Preparation Workers		534	552	18	3.37	2	19	21	9.51	11
<b>35-3000 Food and Beverage Serving Workers</b>		<b>2,305</b>	<b>2,545</b>	<b>240</b>	<b>10.41</b>	<b>24</b>	<b>77</b>	<b>101</b>	<b>n/a</b>	<b>n/a</b>
35-3011 Bartenders		179	207	28	15.64	3	6	9	8.81	11
35-3021 Combined Food Preparation & Service Workers		1,293	1,456	163	12.61	16	27	43	7.97	11
35-3022 Counter Attendants, Cafeteria & Food Concession		61	64	3	4.92	0	5	5	8.32	11
35-3031 Waiters and Waitresses		677	711	34	5.02	3	37	40	8.41	11
35-3041 Food Servers, Nonrestaurant		95	107	12	12.63	1	2	3	9.65	11
<b>35-9000 Other Food Preparation and Serving Related Workers</b>		<b>323</b>	<b>344</b>	<b>21</b>	<b>6.50</b>	<b>2</b>	<b>17</b>	<b>19</b>	<b>n/a</b>	<b>n/a</b>
35-9011 Dining Room, Cafeteria Attend. & Bartender Help.		*	*	*	*	*	*	*	8.02	11
35-9021 Dishwashers		123	137	14	11.38	1	5	6	8.46	11
35-9031 Hosts & Hostesses, Restaurant & Lounge		114	121	7	6.14	1	8	9	8.16	11
35-9099 Food Prep. & Serving Related Workers, Other		*	*	*	*	*	*	*	11.60	11

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Building, Grounds Cleaning & Maintenance Occs.

### Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>37-0000 Building &amp; Grounds Cleaning &amp; Maintenance Occs.</b>		<b>1,882</b>	<b>1,940</b>	<b>58</b>	<b>3.08</b>	<b>7</b>	<b>32</b>	<b>39</b>	<b>10.66</b>	<b>n/a</b>
<b>37-1000 Supervisors, Bldg. &amp; Grounds Cleaning Workers</b>		<b>176</b>	<b>186</b>	<b>10</b>	<b>5.68</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>n/a</b>	<b>n/a</b>
37-1011	Managers of Housekeeping & Janitorial Workers	77	81	4	5.19	0	1	1	14.73	8
37-1012	Managers of Landscaping, Lawn & Grounds. Work.	99	105	6	6.06	1	1	2	17.19	8
<b>37-2000 Building Cleaning and Pest Control Workers</b>		<b>1,390</b>	<b>1,399</b>	<b>9</b>	<b>0.65</b>	<b>2</b>	<b>26</b>	<b>28</b>	<b>n/a</b>	<b>n/a</b>
37-2011	Janitors & Cleaners, Excl. Maids & Housekeeping	905	922	17	1.88	2	17	19	10.34	11
37-2012	Maids and Housekeeping Cleaners	485	477	-8	-1.65	0	9	9	8.97	11
37-2019	Building Cleaning Workers, All Other	*	*	*	*	*	*	*	10.79	11
37-2021	Pest Control Workers	*	*	*	*	*	*	*	13.02	10
<b>37-3000 Grounds Maintenance Workers</b>		<b>316</b>	<b>355</b>	<b>39</b>	<b>12.34</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>n/a</b>	<b>n/a</b>
37-3011	Landscaping and Groundskeeping Workers	263	295	32	12.17	3	3	6	10.88	11
37-3012	Pesticide Handlers, Sprayers & Applicators, Veg.	*	*	*	*	*	*	*	12.76	10
37-3013	Tree Trimmers and Pruners	53	60	7	13.21	1	1	2	12.09	11
37-3019	Grounds Maintenance Workers, All Other	*	*	*	*	*	*	*	12.70	11

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Personal Care & Service Occupations

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage 2010	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total		
<b>39-0000 Personal Care and Service Occupations</b>		<b>1,484</b>	<b>1,719</b>	<b>235</b>	<b>15.84</b>	<b>24</b>	<b>42</b>	<b>66</b>	<b>10.92</b>	<b>n/a</b>
<b>39-1000</b>	<b>Supervisors, Personal Care and Service Workers</b>	<b>82</b>	<b>93</b>	<b>11</b>	<b>13.41</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>n/a</b>	<b>n/a</b>
39-1011	Gaming Supervisors	*	*	*	*	*	*	*	18.79	8
39-1012	Slot Key Persons	*	*	*	*	*	*	*	n/a	7
39-1021	Managers of Personal Service Workers	82	93	11	13.41	1	2	3	13.77	8
<b>39-2000</b>	<b>Animal Care and Service Workers</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>n/a</b>	<b>n/a</b>
39-2011	Animal Trainers	*	*	*	*	*	*	*	16.75	10
39-2021	Nonfarm Animal Caretakers	*	*	*	*	*	*	*	9.89	11
<b>39-3000</b>	<b>Entertainment Attendants and Related Workers</b>	<b>172</b>	<b>200</b>	<b>28</b>	<b>16</b>	<b>3</b>	<b>10</b>	<b>13</b>	<b>n/a</b>	<b>n/a</b>
39-3011	Gaming Dealers	*	*	*	*	*	*	*	9.33	7
39-3012	Gaming and Sports Book Writers and Runners	*	*	*	*	*	*	*	14.38	11
39-3019	Gaming Service Workers, All Other	*	*	*	*	*	*	*	n/a	10
39-3021	Motion Picture Projectionists	*	*	*	*	*	*	*	9.55	11
39-3031	Ushers, Lobby Attendants, and Ticket Takers	68	77	9	13	1	4	5	8.53	11
39-3091	Amusement and Recreation Attendants	80	92	12	15	1	4	5	8.42	11
39-3092	Costume Attendants	*	*	*	*	*	*	*	11.78	11
39-3093	Locker Room, Coatroom & Dressing Room Attend.	*	*	*	*	*	*	*	9.48	11
39-3099	Entertainment Attend. & Related Workers, Other	*	*	*	*	*	*	*	9.27	10
<b>39-4000</b>	<b>Funeral Service Workers</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>n/a</b>	<b>n/a</b>
39-4011	Embalmers	*	*	*	*	*	*	*	16.67	7
39-4021	Funeral Attendants	*	*	*	*	*	*	*	9.54	11
<b>39-5000</b>	<b>Personal Appearance Workers</b>	<b>299</b>	<b>350</b>	<b>51</b>	<b>17.06</b>	<b>5</b>	<b>4</b>	<b>9</b>	<b>n/a</b>	<b>n/a</b>
39-5011	Barbers	123	136	13	10.57	1	2	3	12.76	7
39-5012	Hairdressers, Hairstylists, and Cosmetologists	176	214	38	22	4	3	7	11.55	7
39-5092	Manicurists and Pedicurists	*	*	*	*	*	*	*	9.72	7
39-5093	Shampooers	*	*	*	*	*	*	*	n/a	11
39-5094	Skin Care Specialists	*	*	*	*	*	*	*	14.49	7
<b>39-6000</b>	<b>Transportation, Tourism, and Lodging Attendants</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>n/a</b>	<b>n/a</b>
39-6011	Baggage Porters and Bellhops	*	*	*	*	*	*	*	9.00	11
39-6012	Concierges	*	*	*	*	*	*	*	12.62	10
39-6021	Tour Guides and Escorts	*	*	*	*	*	*	*	11.00	10
39-6022	Travel Guides	*	*	*	*	*	*	*	n/a	10
39-6031	Flight Attendants	*	*	*	*	*	*	*	n/a	9
39-6032	Transp. Attend., Excl. Flight Attend. & Bag Porters	*	*	*	*	*	*	*	n/a	7

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Personal Care & Service Occs. (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2008	2018	2008-2018		Average Annual 2008-2018			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	Req'd~
<b>39-9000</b>	<b>Other Personal Care and Service Workers</b>	<b>826</b>	<b>950</b>	<b>124</b>	<b>15.01</b>	<b>12</b>	<b>22</b>	<b>34</b>	<b>n/a</b>	<b>n/a</b>
39-9011	Child Care Workers	455	490	35	7.69	4	13	17	8.97	11
39-9021	Personal and Home Care Aides	115	154	39	33.91	4	1	5	8.56	11
39-9031	Fitness Trainers and Aerobics Instructors	*	*	*	*	*	*	*	13.60	7
39-9032	Recreation Workers	60	80	20	33.33	2	1	3	11.99	11
39-9041	Residential Advisors	137	151	14	10.22	1	5	6	10.40	11
39-9099	Personal Care and Service Workers, All Other	*	*	*	*	*	*	*	10.35	11

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Sales & Related Occupations

### Occupational Employment Outlook

Occupational Code	Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>41-0000</b>	<b>Sales and Related Occupations</b>	<b>6,279</b>	<b>6,474</b>	<b>195</b>	<b>3.11</b>	<b>22</b>	<b>194</b>	<b>216</b>	<b>15.16</b>	<b>n/a</b>
<b>41-1000</b>	<b>Supervisors, Sales Workers</b>	<b>1,164</b>	<b>1,187</b>	<b>23</b>	<b>1.98</b>	<b>3</b>	<b>25</b>	<b>28</b>	<b>n/a</b>	<b>n/a</b>
41-1011	Managers of Retail Sales Workers	1,063	1,088	25	2.35	3	23	26	16.26	8
41-1012	Managers of Non-Retail Sales Workers	101	99	-2	-1.98	0	2	2	28.15	8
<b>41-2000</b>	<b>Retail Sales Workers</b>	<b>4,338</b>	<b>4,494</b>	<b>156</b>	<b>3.60</b>	<b>16</b>	<b>151</b>	<b>167</b>	<b>n/a</b>	<b>n/a</b>
41-2011	Cashiers	1,773	1,772	-1	-0.06	0	80	80	8.37	11
41-2012	Gaming Change Persons and Booth Cashiers	*	*	*	*	*	*	*	n/a	11
41-2021	Counter and Rental Clerks	201	206	5	2.49	1	5	6	9.98	11
41-2022	Parts Salespersons	*	*	*	*	*	*	*	12.54	10
41-2031	Retail Salespersons	2,314	2,467	153	6.61	15	65	80	10.74	11
<b>41-3000</b>	<b>Sales Representatives, Services</b>	<b>273</b>	<b>284</b>	<b>11</b>	<b>4.03</b>	<b>2</b>	<b>7</b>	<b>9</b>	<b>n/a</b>	<b>n/a</b>
41-3011	Advertising Sales Agents	*	*	*	*	*	*	*	18.29	10
41-3021	Insurance Sales Agents	117	123	6	5.13	1	3	4	28.82	7
41-3031	Securities, Commodities & Financial Serv. Sales	32	32	0	0.00	0	1	1	36.88	5
41-3041	Travel Agents	*	*	*	*	*	*	*	13.02	7
41-3099	Sales Representatives, Services, All Other	91	101	10	10.99	1	2	3	25.53	8
<b>41-4000</b>	<b>Sales Reps., Wholesale and Manufacturing</b>	*	*	*	*	*	*	*	<b>n/a</b>	<b>n/a</b>
41-4011	Sales Reps., Wholesale & Manuf., Tech. & Sci.	*	*	*	*	*	*	*	38.83	8
41-4012	Sales Reps., Wholesale & Manuf., Excl. Tech. & Sci.	*	*	*	*	*	*	*	28.04	8
<b>41-9000</b>	<b>Other Sales and Related Workers</b>	<b>141</b>	<b>159</b>	<b>18</b>	<b>12.77</b>	<b>2</b>	<b>3</b>	<b>5</b>	<b>n/a</b>	<b>n/a</b>
41-9011	Demonstrators and Product Promoters	*	*	*	*	*	*	*	11.21	10
41-9012	Models	*	*	*	*	*	*	*	n/a	10
41-9021	Real Estate Brokers	*	*	*	*	*	*	*	16.62	8
41-9022	Real Estate Sales Agents	104	119	15	14.42	2	2	4	14.99	7
41-9031	Sales Engineers	*	*	*	*	*	*	*	33.18	5
41-9041	Telemarketers	*	*	*	*	*	*	*	11.76	11
41-9091	Door-To-Door Sales, News, Street Vend. & Related	*	*	*	*	*	*	*	12.29	11
41-9099	Sales and Related Workers, All Other	*	*	*	*	*	*	*	15.59	10

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Office & Administrative Support Occs.

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage 2010	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total		
<b>43-0000</b>	<b>Office and Administrative Support Occupations</b>	<b>7,831</b>	<b>8,420</b>	<b>589</b>	<b>7.52</b>	<b>73</b>	<b>169</b>	<b>242</b>	<b>14.32</b>	<b>n/a</b>
<b>43-1000</b>	<b>Supervisors, Office &amp; Admin. Support Workers</b>	<b>392</b>	<b>447</b>	<b>55</b>	<b>14.03</b>	<b>6</b>	<b>9</b>	<b>15</b>	<b>n/a</b>	<b>n/a</b>
43-1011	Managers of Office & Admin. Support Workers	392	447	55	14.03	6	9	15	20.27	8
<b>43-2000</b>	<b>Communications Equipment Operators</b>	<b>47</b>	<b>40</b>	<b>-7</b>	<b>-14.89</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>n/a</b>	<b>n/a</b>
43-2011	Switchboard Operators, Incl. Answering Service	*	*	*	*	*	*	*	11.97	11
43-2021	Telephone Operators	*	*	*	*	*	*	*	14.15	11
43-2099	Communications Equipment Operators, All Other	*	*	*	*	*	*	*	17.49	11
<b>43-3000</b>	<b>Financial Clerks</b>	<b>1,627</b>	<b>1,816</b>	<b>189</b>	<b>11.62</b>	<b>20</b>	<b>31</b>	<b>51</b>	<b>n/a</b>	<b>n/a</b>
43-3011	Bill and Account Collectors	40	47	7	17.50	1	1	2	13.20	11
43-3021	Billing and Posting Clerks and Machine Operators	489	590	101	20.65	10	8	18	14.62	11
43-3031	Bookkeeping, Accounting, and Auditing Clerks	723	796	73	10.10	7	9	16	14.98	10
43-3041	Gaming Cage Workers	*	*	*	*	*	*	*	n/a	11
43-3051	Payroll and Timekeeping Clerks	92	83	-9	-9.78	0	2	2	15.76	10
43-3061	Procurement Clerks	*	*	*	*	*	*	*	17.59	10
43-3071	Tellers	273	290	17	6.23	2	11	13	10.66	11
<b>43-4000</b>	<b>Information and Record Clerks</b>	<b>2,374</b>	<b>2,659</b>	<b>285</b>	<b>12.01</b>	<b>34</b>	<b>70</b>	<b>104</b>	<b>n/a</b>	<b>n/a</b>
43-4011	Brokerage Clerks	*	*	*	*	*	*	*	19.06	10
43-4021	Correspondence Clerks	*	*	*	*	*	*	*	16.71	11
43-4031	Court, Municipal, and License Clerks	145	158	13	8.97	1	4	5	14.82	11
43-4041	Credit Authorizers, Checkers, and Clerks	*	*	*	*	*	*	*	16.06	11
43-4051	Customer Service Representatives	1,176	1,390	214	18.20	21	37	58	13.99	10
43-4061	Eligibility Interviewers, Government Programs	*	*	*	*	*	*	*	20.62	10
43-4071	File Clerks	147	110	-37	-25.17	0	4	4	11.04	11
43-4081	Hotel, Motel, and Resort Desk Clerks	66	74	8	12.12	1	2	3	8.50	11
43-4111	Interviewers, Excl. Eligibility and Loan	92	110	18	19.57	2	2	4	12.09	11
43-4121	Library Assistants, Clerical	31	33	2	6.45	0	1	1	10.62	11
43-4131	Loan Interviewers and Clerks	42	43	1	2.38	0	1	1	13.97	11
43-4141	New Accounts Clerks	*	*	*	*	*	*	*	13.34	8
43-4151	Order Clerks	*	*	*	*	*	*	*	13.43	11
43-4161	H.R. Assistants, Excl. Payroll & Timekeeping	*	*	*	*	*	*	*	17.39	11
43-4171	Receptionists and Information Clerks	530	610	80	15.09	8	14	22	11.03	11
43-4181	Reservation, Transp. Ticket Agents & Travel Clerks	*	*	*	*	*	*	*	n/a	11
43-4199	Information and Record Clerks, All Other	46	39	-7	-15.22	0	1	1	16.37	11

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

# FIVCO Area

## Office & Administrative Support Occs. (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
<b>43-5000</b>	<b>Material Recording, Dispatching &amp; Distributing Work.</b>	<b>1,214</b>	<b>1,210</b>	<b>-4</b>	<b>-0.33</b>	<b>5</b>	<b>28</b>	<b>33</b>	<b>n/a</b>	<b>n/a</b>
43-5011	Cargo and Freight Agents	*	*	*	*	*	*	*	17.57	10
43-5021	Couriers and Messengers	*	*	*	*	*	*	*	10.61	11
43-5031	Police, Fire, and Ambulance Dispatchers	50	60	10	20.00	1	1	2	13.74	10
43-5032	Dispatchers, Except Police, Fire, and Ambulance	57	51	-6	-10.53	0	1	1	16.38	10
43-5041	Meter Readers, Utilities	*	*	*	*	*	*	*	13.89	11
43-5051	Postal Service Clerks	*	*	*	*	*	*	*	24.90	11
43-5052	Postal Service Mail Carriers	135	138	3	2.22	0	4	4	23.03	11
43-5053	Postal Service Mail Sorters, Processors	58	41	-17	-29.31	0	1	1	21.02	11
43-5061	Production, Planning, and Expediting Clerks	40	35	-5	-12.50	0	1	1	19.84	10
43-5071	Shipping, Receiving, and Traffic Clerks	123	112	-11	-8.94	0	3	3	14.74	11
43-5081	Stock Clerks and Order Fillers	638	671	33	5.17	3	15	18	11.52	11
43-5111	Weigher, Measurer, Checker & Sampler, Records	*	*	*	*	*	*	*	13.39	11
<b>43-6000</b>	<b>Secretaries and Administrative Assistants</b>	<b>1,506</b>	<b>1,576</b>	<b>70</b>	<b>4.65</b>	<b>7</b>	<b>20</b>	<b>27</b>	<b>n/a</b>	<b>n/a</b>
43-6011	Executive Secretaries & Admin. Assistants	432	467	35	8.10	4	6	10	16.90	8
43-6012	Legal Secretaries	64	69	5	7.81	1	1	2	15.55	6
43-6013	Medical Secretaries	232	266	34	14.66	3	3	6	13.01	10
43-6014	Secretaries, Excl. Legal, Medical, and Executive	778	774	-4	-0.51	0	11	11	12.48	10
<b>43-9000</b>	<b>Other Office and Administrative Support Workers</b>	<b>671</b>	<b>672</b>	<b>1</b>	<b>0.15</b>	<b>2</b>	<b>10</b>	<b>12</b>	<b>n/a</b>	<b>n/a</b>
43-9011	Computer Operators	*	*	*	*	*	*	*	17.06	10
43-9021	Data Entry Keyers	*	*	*	*	*	*	*	13.38	10
43-9022	Word Processors and Typists	*	*	*	*	*	*	*	15.07	10
43-9031	Desktop Publishers	*	*	*	*	*	*	*	17.89	7
43-9041	Insurance Claims and Policy Processing Clerks	*	*	*	*	*	*	*	15.52	10
43-9051	Mail Clerks & Mail Machine Operators, Excl. Postal	113	105	-8	-7.08	0	2	2	12.72	11
43-9061	Office Clerks, General	478	500	22	4.60	2	7	9	12.44	11
43-9071	Office Machine Operators, Excl. Computer	*	*	*	*	*	*	*	12.69	11
43-9081	Proofreaders and Copy Markers	*	*	*	*	*	*	*	14.82	11
43-9111	Statistical Assistants	*	*	*	*	*	*	*	n/a	10
43-9199	Office & Admin. Support Workers, All Other	*	*	*	*	*	*	*	15.79	11

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Farming, Fishing & Forestry Occupations

### Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>45-0000</b>	<b>Farming, Fishing, and Forestry Occupations</b>	<b>330</b>	<b>309</b>	<b>-21</b>	<b>-6.36</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>12.65</b>	<b>n/a</b>
<b>45-1000</b>	<b>Supervisors, Farming, Fishing &amp; Forestry Workers</b>	*	*	*	*	*	*	*	<b>n/a</b>	<b>n/a</b>
45-1011	Managers of Farming, Fishing & Forestry Workers	*	*	*	*	*	*	*	19.73	8
45-1012	Farm Labor Contractors	*	*	*	*	*	*	*	n/a	8
<b>45-2000</b>	<b>Agricultural Workers</b>	<b>279</b>	<b>258</b>	<b>-21</b>	<b>-7.53</b>	<b>0</b>	<b>8</b>	<b>8</b>	<b>n/a</b>	<b>n/a</b>
45-2011	Agricultural Inspectors	*	*	*	*	*	*	*	19.21	8
45-2021	Animal Breeders	*	*	*	*	*	*	*	13.16	8
45-2041	Graders and Sorters, Agricultural Products	*	*	*	*	*	*	*	14.94	8
45-2091	Agricultural Equipment Operators	*	*	*	*	*	*	*	13.81	11
45-2092	Farmworkers & Laborers, Crop, Nursery	218	202	-16	-7.34	0	6	6	10.13	11
45-2093	Farmworkers, Farm and Ranch Animals	*	*	*	*	*	*	*	10.53	11
45-2099	Agricultural Workers, All Other	*	*	*	*	*	*	*	10.90	11
<b>45-3000</b>	<b>Fishing and Hunting Workers</b>	*	*	*	*	*	*	*	<b>n/a</b>	<b>n/a</b>
45-3011	Fishers and Related Fishing Workers	*	*	*	*	*	*	*	n/a	11
<b>45-4000</b>	<b>Forest, Conservation, and Logging Workers</b>	<b>40</b>	<b>40</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>n/a</b>	<b>n/a</b>
45-4011	Forest and Conservation Workers	*	*	*	*	*	*	*	n/a	10
45-4021	Fallers	*	*	*	*	*	*	*	12.02	10
45-4022	Logging Equipment Operators	*	*	*	*	*	*	*	12.75	10
45-4023	Log Graders and Scalers	*	*	*	*	*	*	*	17.41	10
45-4029	Logging Workers, All Other	*	*	*	*	*	*	*	n/a	10

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Construction & Extraction Occupations

### Occupational Employment Outlook

Occupational Code Title		Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>47-0000 Construction and Extraction Occupations</b>		<b>3,349</b>	<b>3,650</b>	<b>301</b>	<b>8.99</b>	<b>31</b>	<b>61</b>	<b>92</b>	<b>18.74</b>	<b>n/a</b>
<b>47-1000</b>	<b>Supervisors, Construction and Extraction Workers</b>	<b>268</b>	<b>292</b>	<b>24</b>	<b>8.96</b>	<b>2</b>	<b>5</b>	<b>7</b>	<b>n/a</b>	<b>n/a</b>
47-1011	Managers of Constr. Trades & Extraction Workers	268	292	24	8.96	2	5	7	26.19	8
<b>47-2000</b>	<b>Construction Trades Workers</b>	<b>2,696</b>	<b>2,932</b>	<b>236</b>	<b>8.75</b>	<b>24</b>	<b>47</b>	<b>71</b>	<b>n/a</b>	<b>n/a</b>
47-2011	Boilermakers	*	*	*	*	*	*	*	23.63	9
47-2021	Brickmasons and Blockmasons	*	*	*	*	*	*	*	19.96	9
47-2022	Stonemasons	*	*	*	*	*	*	*	15.97	9
47-2031	Carpenters	342	369	27	7.89	3	4	7	17.16	9
47-2041	Carpet Installers	*	*	*	*	*	*	*	14.64	10
47-2042	Floor Layers, Except Carpet, Wood, and Hard Tiles	*	*	*	*	*	*	*	13.58	10
47-2043	Floor Sanders and Finishers	*	*	*	*	*	*	*	17.99	10
47-2044	Tile and Marble Setters	34	36	2	5.88	0	1	1	15.71	9
47-2051	Cement Masons and Concrete Finishers	*	*	*	*	*	*	*	15.58	10
47-2053	Terrazzo Workers and Finishers	*	*	*	*	*	*	*	n/a	9
47-2061	Construction Laborers	436	495	59	13.53	6	3	9	14.56	10
47-2071	Paving, Surfacing & Tamping Equip. Operators	*	*	*	*	*	*	*	16.78	10
47-2072	Pile-Driver Operators	*	*	*	*	*	*	*	n/a	10
47-2073	Operating Engineers & Other Constr. Equip. Ops.	357	389	32	8.96	3	6	9	18.95	10
47-2081	Drywall and Ceiling Tile Installers	*	*	*	*	*	*	*	16.76	10
47-2082	Tapers	*	*	*	*	*	*	*	17.60	10
47-2111	Electricians	553	603	50	9.04	5	13	18	20.63	9
47-2121	Glaziers	*	*	*	*	*	*	*	14.85	9
47-2131	Insulation Workers, Floor, Ceiling, and Wall	*	*	*	*	*	*	*	17.99	10
47-2132	Insulation Workers, Mechanical	*	*	*	*	*	*	*	22.09	10
47-2141	Painters, Construction and Maintenance	118	123	5	4.24	1	2	3	14.96	10
47-2142	Paperhangers	*	*	*	*	*	*	*	n/a	10
47-2151	Pipelayers	33	34	1	3.03	0	1	1	19.03	11
47-2152	Plumbers, Pipefitters, and Steamfitters	337	367	30	8.90	3	7	10	21.74	9
47-2161	Plasterers and Stucco Masons	*	*	*	*	*	*	*	16.50	9
47-2171	Reinforcing Iron and Rebar Workers	*	*	*	*	*	*	*	22.79	9
47-2181	Roofers	*	*	*	*	*	*	*	16.17	10
47-2211	Sheet Metal Workers	72	75	3	4.17	0	2	2	19.87	9
47-2221	Structural Iron and Steel Workers	184	197	13	7.07	1	3	4	22.46	9

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

# FIVCO Area

## Construction & Extraction Occs. (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
<b>47-3000</b>	<b>Helpers, Construction Trades</b>	<b>103</b>	<b>125</b>	<b>22</b>	<b>21.36</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>n/a</b>	<b>n/a</b>
47-3011	Helpers--Brick, Block, Stone, Tile & Marble Setters	*	*	*	*	*	*	*	15.91	11
47-3012	Helpers--Carpenters	*	*	*	*	*	*	*	12.46	11
47-3013	Helpers--Electricians	52	63	11	21.15	1	1	2	11.61	11
47-3014	Helpers--Painter, Paperhanger, Plasterer & Stucco	*	*	*	*	*	*	*	10.90	11
47-3015	Helpers--Pipelayer & fitter, Plumber & Steamfitter	30	37	7	23.33	1	1	2	11.99	11
47-3016	Helpers--Roofers	*	*	*	*	*	*	*	12.55	11
47-3019	Helpers, Construction Trades, All Other	*	*	*	*	*	*	*	12.34	11
<b>47-4000</b>	<b>Other Construction and Related Workers</b>	<b>207</b>	<b>225</b>	<b>18</b>	<b>8.70</b>	<b>2</b>	<b>6</b>	<b>8</b>	<b>n/a</b>	<b>n/a</b>
47-4011	Construction and Building Inspectors	*	*	*	*	*	*	*	22.56	8
47-4021	Elevator Installers and Repairers	*	*	*	*	*	*	*	30.86	9
47-4031	Fence Erectors	*	*	*	*	*	*	*	9.70	10
47-4041	Hazardous Materials Removal Workers	*	*	*	*	*	*	*	15.61	10
47-4051	Highway Maintenance Workers	120	130	10	8.33	1	3	4	12.65	10
47-4061	Rail-Track Laying and Maint. Equip. Operators	*	*	*	*	*	*	*	20.61	10
47-4071	Septic Tank Servicers and Sewer Pipe Cleaners	*	*	*	*	*	*	*	12.53	10
47-4099	Construction and Related Workers, All Other	*	*	*	*	*	*	*	14.68	10
<b>47-5000</b>	<b>Extraction Workers</b>	<b>75</b>	<b>76</b>	<b>1</b>	<b>1.33</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>n/a</b>	<b>n/a</b>
47-5011	Derrick Operators, Oil and Gas	*	*	*	*	*	*	*	12.42	10
47-5012	Rotary Drill Operators, Oil and Gas	*	*	*	*	*	*	*	27.52	10
47-5013	Service Unit Operators, Oil, Gas, and Mining	*	*	*	*	*	*	*	17.14	10
47-5021	Earth Drillers, Excl. Oil and Gas	*	*	*	*	*	*	*	19.97	10
47-5031	Explosives Workers, Ordnance Handling & Blasters	*	*	*	*	*	*	*	19.45	10
47-5041	Continuous Mining Machine Operators	*	*	*	*	*	*	*	21.77	10
47-5042	Mine Cutting and Channeling Machine Operators	*	*	*	*	*	*	*	28.50	10
47-5049	Mining Machine Operators, All Other	*	*	*	*	*	*	*	20.58	10
47-5051	Rock Splitters, Quarry	*	*	*	*	*	*	*	n/a	10
47-5061	Roof Bolters, Mining	*	*	*	*	*	*	*	21.49	10
47-5071	Roustabouts, Oil and Gas	*	*	*	*	*	*	*	13.90	10
47-5081	Helpers--Extraction Workers	*	*	*	*	*	*	*	17.34	11
47-5099	Extraction Workers, All Other	*	*	*	*	*	*	*	19.02	10

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Installation, Maintenance & Repair Occs.

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage 2010	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total		
<b>49-0000 Installation, Maintenance, and Repair Occupations</b>		<b>2,929</b>	<b>3,022</b>	<b>93</b>	<b>3.18</b>	<b>13</b>	<b>56</b>	<b>69</b>	<b>19.24</b>	<b>n/a</b>
<b>49-1000</b>	<b>Supervisors of Installation, Maint. &amp; Repair Workers</b>	<b>292</b>	<b>292</b>	<b>0</b>	<b>0.00</b>	<b>0</b>	<b>8</b>	<b>8</b>	<b>n/a</b>	<b>n/a</b>
49-1011	Managers of Mechanics, Installers, and Repairers	292	292	0	0.00	0	8	8	25.60	8
<b>49-2000</b>	<b>Electrical &amp; Electronic Equip. Mechanics &amp; Installers</b>	<b>444</b>	<b>455</b>	<b>11</b>	<b>2.48</b>	<b>2</b>	<b>8</b>	<b>10</b>	<b>n/a</b>	<b>n/a</b>
49-2011	Computer, Automated Teller & Office Mach. Repair	*	*	*	*	*	*	*	18.42	7
49-2021	Radio Mechanics	*	*	*	*	*	*	*	22.85	7
49-2022	Telecommunications Equip. Installers & Repairers	263	275	12	4.56	1	5	6	22.93	7
49-2091	Avionics Technicians	*	*	*	*	*	*	*	24.26	7
49-2092	Electric Motor, Power Tool, and Related Repairers	*	*	*	*	*	*	*	15.96	7
49-2093	Elec. & Electron. Install. & Repair., Transp. Equip.	*	*	*	*	*	*	*	21.11	7
49-2094	Elec. & Electron. Repair- Comm. & Ind. Equip.	*	*	*	*	*	*	*	22.28	7
49-2095	Elec. & Electron. Repair- Pwrhouse, Subst. & Relay	*	*	*	*	*	*	*	26.08	7
49-2096	Electron. Equip. Install. & Repair., Motor Vehicles	*	*	*	*	*	*	*	17.51	7
49-2097	Electron. Home Entertain. Equip. Install & Repair	55	56	1	1.82	0	1	1	15.70	7
49-2098	Security and Fire Alarm Systems Installers	*	*	*	*	*	*	*	20.58	7
<b>49-3000</b>	<b>Vehicle and Mobile Equip. Mechanics, Installers</b>	<b>760</b>	<b>787</b>	<b>27</b>	<b>3.55</b>	<b>3</b>	<b>15</b>	<b>18</b>	<b>n/a</b>	<b>n/a</b>
49-3011	Aircraft Mechanics and Service Technicians	*	*	*	*	*	*	*	33.51	7
49-3021	Automotive Body and Related Repairers	41	40	-1	-2.44	0	1	1	19.03	9
49-3022	Automotive Glass Installers and Repairers	*	*	*	*	*	*	*	15.46	9
49-3023	Automotive Service Technicians and Mechanics	227	239	12	5.29	1	4	5	14.97	7
49-3031	Bus & Truck Mechanics & Diesel Eng. Specialists	103	102	-1	-0.97	0	2	2	17.87	7
49-3041	Farm Equipment Mechanics	*	*	*	*	*	*	*	13.34	9
49-3042	Mobile Heavy Equip. Mechanics, Excl. Engines	163	177	14	8.59	1	3	4	19.80	9
49-3043	Rail Car Repairers	178	180	2	1.12	0	3	3	20.70	9
49-3051	Motorboat Mechanics	*	*	*	*	*	*	*	12.82	9
49-3052	Motorcycle Mechanics	*	*	*	*	*	*	*	15.94	9
49-3053	Outdoor Power Equip. & Other Small Eng. Mech.	*	*	*	*	*	*	*	14.77	10
49-3091	Bicycle Repairers	*	*	*	*	*	*	*	12.51	10
49-3092	Recreational Vehicle Service Technicians	*	*	*	*	*	*	*	14.92	9
49-3093	Tire Repairers and Changers	*	*	*	*	*	*	*	11.69	11

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Installation, Maintenance & Repair Occs. (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2008	2018	2008-2018		Average Annual 2008-2018			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	Req'd~
<b>49-9000</b>	<b>Other Installation, Maintenance &amp; Repair Occs.</b>	<b>1,433</b>	<b>1,488</b>	<b>55</b>	<b>3.84</b>	<b>9</b>	<b>25</b>	<b>34</b>	<b>n/a</b>	<b>n/a</b>
49-9011	Mechanical Door Repairers	*	*	*	*	*	*	*	14.47	10
49-9012	Control & Valve Install. & Repair., Excl. Mech. Door	50	52	2	4.00	0	1	1	17.09	10
49-9021	Heating, A.C. & Refrigeration Mech. & Installers	152	181	29	19.08	3	2	5	18.04	7
49-9031	Home Appliance Repairers	*	*	*	*	*	*	*	16.69	9
49-9041	Industrial Machinery Mechanics	410	403	-7	-1.71	0	6	6	22.27	9
49-9042	Maintenance and Repair Workers, General	404	441	37	9.16	4	6	10	16.27	10
49-9043	Maintenance Workers, Machinery	*	*	*	*	*	*	*	18.13	10
49-9044	Millwrights	46	51	5	10.87	1	1	2	25.73	9
49-9045	Refractory Materials Repairers, Excl. Brickmasons	*	*	*	*	*	*	*	n/a	10
49-9051	Electrical Power-Line Installers and Repairers	69	62	-7	-10.15	0	2	2	23.94	9
49-9052	Telecommunications Line Installers and Repairers	*	*	*	*	*	*	*	22.26	9
49-9061	Camera and Photographic Equipment Repairers	*	*	*	*	*	*	*	14.91	9
49-9062	Medical Equipment Repairers	*	*	*	*	*	*	*	19.58	6
49-9063	Musical Instrument Repairers and Tuners	*	*	*	*	*	*	*	14.85	9
49-9064	Watch Repairers	*	*	*	*	*	*	*	18.11	9
49-9069	Precision Instrument & Equip. Repairers, Other	62	48	-14	-22.58	0	2	2	31.52	10
49-9091	Coin, Vending & Amusement Mach. Serv. & Repair.	*	*	*	*	*	*	*	13.49	10
49-9092	Commercial Divers	*	*	*	*	*	*	*	n/a	10
49-9093	Fabric Menders, Excl. Garment	*	*	*	*	*	*	*	n/a	10
49-9094	Locksmiths and Safe Repairers	*	*	*	*	*	*	*	16.01	10
49-9095	Manufactured Building and Mobile Home Installers	73	77	4	5.48	0	1	1	11.01	10
49-9096	Riggers	*	*	*	*	*	*	*	26.54	11
49-9097	Signal and Track Switch Repairers	*	*	*	*	*	*	*	n/a	10
49-9098	Helpers--Installation, Maint. & Repair Workers	46	50	4	9	0	2	2	13.55	11
49-9099	Installation, Maint. & Repair Workers, All Other	32	31	-1	-3.13	0	1	1	18.53	10

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Production Occupations

### Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>51-0000 Production Occupations</b>		<b>3,455</b>	<b>3,212</b>	<b>-243</b>	<b>-7.03</b>	<b>5</b>	<b>67</b>	<b>72</b>	<b>15.80</b>	<b>n/a</b>
<b>51-1000</b>	<b>Supervisors, Production Workers</b>	<b>337</b>	<b>316</b>	<b>-21</b>	<b>-6.23</b>	<b>0</b>	<b>5</b>	<b>5</b>	<b>n/a</b>	<b>n/a</b>
51-1011	Managers of Production and Operating Workers	337	316	-21	-6.23	0	5	5	24.26	8
<b>51-2000</b>	<b>Assemblers and Fabricators</b>	<b>104</b>	<b>107</b>	<b>3</b>	<b>2.88</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>n/a</b>	<b>n/a</b>
51-2011	Aircraft Structure, Surface, Rig & Systems Assemb.	*	*	*	*	*	*	*	27.06	10
51-2021	Coil Winders, Tapers, and Finishers	*	*	*	*	*	*	*	13.90	11
51-2022	Electrical and Electronic Equipment Assemblers	*	*	*	*	*	*	*	14.94	11
51-2023	Electromechanical Equipment Assemblers	*	*	*	*	*	*	*	16.83	11
51-2031	Engine and Other Machine Assemblers	*	*	*	*	*	*	*	18.72	11
51-2041	Structural Metal Fabricators and Fitters	*	*	*	*	*	*	*	15.87	10
51-2091	Fiberglass Laminators and Fabricators	*	*	*	*	*	*	*	12.55	10
51-2092	Team Assemblers	*	*	*	*	*	*	*	14.86	10
51-2093	Timing Device Assemblers, Adjusters & Calibrators	*	*	*	*	*	*	*	n/a	10
51-2099	Assemblers and Fabricators, All Other	75	81	6	8.00	1	2	3	17.41	10
<b>51-3000</b>	<b>Food Processing Workers</b>	<b>263</b>	<b>257</b>	<b>-6</b>	<b>-2.28</b>	<b>0</b>	<b>7</b>	<b>7</b>	<b>n/a</b>	<b>n/a</b>
51-3011	Bakers	41	40	-1	-2.44	0	1	1	12.23	9
51-3021	Butchers and Meat Cutters	55	52	-3	-5.45	0	2	2	14.27	9
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	*	*	*	*	*	*	*	11.07	11
51-3023	Slaughterers and Meat Packers	*	*	*	*	*	*	*	11.28	10
51-3091	Food & Tobacco Roast., Baking, Drying Mach. Ops.	44	41	-3	-6.82	0	1	1	11.33	11
51-3092	Food Batchmakers	99	98	-1	-1.01	0	2	2	15.06	11
51-3093	Food Cooking Machine Operators and Tenders	*	*	*	*	*	*	*	10.41	11
<b>51-4000</b>	<b>Metal Workers and Plastic Workers</b>	<b>706</b>	<b>610</b>	<b>-96</b>	<b>-13.60</b>	<b>0</b>	<b>17</b>	<b>17</b>	<b>n/a</b>	<b>n/a</b>
51-4011	Computer-Controlled Machine Tool Operators	*	*	*	*	*	*	*	16.01	10
51-4012	Numerical Tool and Process Control Programmers	*	*	*	*	*	*	*	21.33	8
51-4021	Extruding & Drawing Mach. Setters, Ops. & Tenders	*	*	*	*	*	*	*	17.19	10
51-4022	Forging Machine Setters, Operators & Tenders	*	*	*	*	*	*	*	16.59	10
51-4023	Rolling Machine Setters, Operators, and Tenders	*	*	*	*	*	*	*	15.10	10

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Production Occupations (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2008	2018	2008-2018		Average Annual 2008-2018			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	Req'd~
51-4031	Cut, Punch & Press Mach. Setters, Ops. & Tenders	65	49	-16	-24.62	0	1	1	14.29	10
51-4032	Drill & Boring Mach. Tool Setters, Ops. & Tenders	*	*	*	*	*	*	*	15.66	10
51-4033	Grind, Lap, Polish & Buff Mach. Tool Setters, Ops.	*	*	*	*	*	*	*	15.46	10
51-4034	Lathe & Turning Mach. Tool Setters, Ops. & Tenders	*	*	*	*	*	*	*	15.37	10
51-4035	Milling & Planing Machine Setters, Ops. & Tenders	*	*	*	*	*	*	*	15.22	10
51-4041	Machinists	94	83	-11	-11.70	0	1	1	18.18	9
51-4051	Metal-Refining Furnace Operators and Tenders	*	*	*	*	*	*	*	19.16	10
51-4052	Pourers and Casters, Metal	*	*	*	*	*	*	*	16.29	10
51-4061	Model Makers, Metal and Plastic	*	*	*	*	*	*	*	19.91	9
51-4062	Patternmakers, Metal and Plastic	*	*	*	*	*	*	*	n/a	9
51-4071	Foundry Mold and Coremakers	*	*	*	*	*	*	*	n/a	10
51-4072	Molding, Coremaking & Casting Mach. Setters, Ops.	39	41	2	5.13	0	1	1	13.95	10
51-4081	Multiple Mach. Tool Setters, Ops. & Tenders	*	*	*	*	*	*	*	14.47	10
51-4111	Tool and Die Makers	*	*	*	*	*	*	*	21.85	9
51-4121	Welders, Cutters, Solderers, and Brazers	301	275	-26	-8.64	0	9	9	16.11	7
51-4122	Welding, Soldering & Brazing Mach. Setters, Ops.	*	*	*	*	*	*	*	15.37	7
51-4191	Heat Treating Equip. Setters, Ops. & Tenders	*	*	*	*	*	*	*	15.70	10
51-4192	Lay-Out Workers, Metal and Plastic	*	*	*	*	*	*	*	16.46	10
51-4193	Plating & Coating Mach. Setters, Ops. & Tenders	*	*	*	*	*	*	*	13.48	10
51-4194	Tool Grinders, Filers, and Sharpeners	*	*	*	*	*	*	*	17.31	10
51-4199	Metal Workers and Plastic Workers, All Other	*	*	*	*	*	*	*	15.12	10
<b>51-5000</b>	<b>Printing Workers</b>	*	*	*	*	*	*	*	<b>n/a</b>	<b>n/a</b>
51-5011	Bindery Workers	*	*	*	*	*	*	*	15.53	11
51-5012	Bookbinders	*	*	*	*	*	*	*	15.67	10
51-5021	Job Printers	*	*	*	*	*	*	*	16.23	9
51-5022	Prepress Technicians and Workers	*	*	*	*	*	*	*	16.66	7
51-5023	Printing Machine Operators	*	*	*	*	*	*	*	16.79	10

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Production Occupations (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2008	2018	2008-2018		Average Annual 2008-2018			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	Req'd~
<b>51-6000</b>	<b>Textile, Apparel, and Furnishings Workers</b>	<b>416</b>	<b>375</b>	<b>-41</b>	<b>-9.86</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>n/a</b>	<b>n/a</b>
51-6011	Laundry and Dry-Cleaning Workers	84	88	4	4.76	0	2	2	9.67	10
51-6021	Pressers, Textile, Garment, and Related Materials	48	45	-3	-6.25	0	0	0	9.24	11
51-6031	Sewing Machine Operators	179	145	-34	-18.99	0	1	1	9.93	10
51-6041	Shoe and Leather Workers and Repairers	*	*	*	*	*	*	*	n/a	9
51-6042	Shoe Machine Operators and Tenders	*	*	*	*	*	*	*	n/a	10
51-6051	Sewers, Hand	*	*	*	*	*	*	*	12.25	11
51-6052	Tailors, Dressmakers, and Custom Sewers	95	87	-8	-8.42	0	1	1	13.69	9
51-6061	Textile Bleaching & Dyeing Mach. Ops. & Tenders	*	*	*	*	*	*	*	n/a	10
51-6062	Textile Cutting Mach. Setters, Ops. & Tenders	*	*	*	*	*	*	*	10.79	10
51-6063	Textile Knitting & Weaving Mach. Setters, Ops.	*	*	*	*	*	*	*	12.28	9
51-6064	Textile Wind, Twist. & Drawing Out Mach. Setters	*	*	*	*	*	*	*	14.34	10
51-6091	Extruding & Forming Mach. Setters, Ops. & Tenders	*	*	*	*	*	*	*	12.94	10
51-6092	Fabric and Apparel Patternmakers	*	*	*	*	*	*	*	n/a	9
51-6093	Upholsterers	*	*	*	*	*	*	*	14.48	9
51-6099	Textile, Apparel & Furnishings Workers, All Other	*	*	*	*	*	*	*	19.29	11
<b>51-7000</b>	<b>Woodworkers</b>	<b>121</b>	<b>124</b>	<b>3</b>	<b>2.48</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>n/a</b>	<b>n/a</b>
51-7011	Cabinetmakers and Bench Carpenters	*	*	*	*	*	*	*	14.83	9
51-7021	Furniture Finishers	*	*	*	*	*	*	*	13.10	9
51-7031	Model Makers, Wood	*	*	*	*	*	*	*	n/a	9
51-7032	Patternmakers, Wood	*	*	*	*	*	*	*	n/a	9
51-7041	Sawing Machine Setters, Ops. & Tenders, Wood	65	65	0	0.00	0	1	1	11.82	10
51-7042	Woodworking Machine Setters, Ops. & Tenders	49	53	4	8.16	0	1	1	11.88	10
51-7099	Woodworkers, All Other	*	*	*	*	*	*	*	9.51	10

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

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# FIVCO Area

## Production Occupations (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
<b>51-8000</b>	<b>Plant and System Operators</b>	<b>624</b>	<b>622</b>	<b>-2</b>	<b>-0.32</b>	<b>2</b>	<b>15</b>	<b>17</b>	<b>n/a</b>	<b>n/a</b>
51-8012	Power Distributors and Dispatchers	*	*	*	*	*	*	*	35.30	9
51-8013	Power Plant Operators	*	*	*	*	*	*	*	30.10	9
51-8021	Stationary Engineers and Boiler Operators	*	*	*	*	*	*	*	18.20	9
51-8031	Water & Liquid Waste Treatment Plant & Sys. Ops.	91	102	11	12.09	1	2	3	15.71	9
51-8091	Chemical Plant and System Operators	92	94	2	2.17	0	2	2	24.73	9
51-8092	Gas Plant Operators	36	39	3	8.33	0	1	1	26.28	9
51-8093	Petroleum Pump System Ops., Refinery Ops.	336	319	-17	-5.06	0	8	8	27.02	9
51-8099	Plant and System Operators, All Other	*	*	*	*	*	*	*	22.82	9
<b>51-9000</b>	<b>Other Production Occupations</b>	<b>852</b>	<b>778</b>	<b>-74</b>	<b>-8.69</b>	<b>1</b>	<b>15</b>	<b>16</b>	<b>n/a</b>	<b>n/a</b>
51-9011	Chemical Equipment Operators and Tenders	42	35	-7	-16.67	0	0	0	23.62	10
51-9012	Separate, Filter, Clarify, Precipitate & Still Mach. Ops.	*	*	*	*	*	*	*	19.03	10
51-9021	Crush, Grind & Polish Mach. Setters, Ops. & Tenders	*	*	*	*	*	*	*	13.72	10
51-9022	Grinding and Polishing Workers, Hand	*	*	*	*	*	*	*	13.57	10
51-9023	Mixing & Blending Mach. Setters, Ops. & Tenders	*	*	*	*	*	*	*	14.15	10
51-9031	Cutters and Trimmers, Hand	40	33	-7	-17.50	0	1	1	14.86	11
51-9032	Cutting & Slicing Mach. Setters, Ops. & Tenders	*	*	*	*	*	*	*	13.68	10
51-9041	Extrude, Form, Press & Compact Mach. Ops.	*	*	*	*	*	*	*	14.92	10
51-9051	Furnace, Kiln, Oven, Drier & Kettle Ops. & Tenders	74	62	-12	-16.22	0	1	1	16.71	10
51-9061	Inspectors, Testers, Sorters, Samplers & Weighers	125	123	-2	-1.60	0	2	2	16.17	10
51-9071	Jewelers and Precious Stone and Metal Workers	*	*	*	*	*	*	*	16.20	7
51-9081	Dental Laboratory Technicians	*	*	*	*	*	*	*	18.34	10
51-9082	Medical Appliance Technicians	*	*	*	*	*	*	*	16.34	9
51-9083	Ophthalmic Laboratory Technicians	*	*	*	*	*	*	*	14.00	10
51-9111	Packaging & Filling Machine Ops. & Tenders	238	219	-19	-7.98	0	4	4	14.54	11
51-9121	Coating, Painting & Spraying Mach. Setters, Ops.	*	*	*	*	*	*	*	15.01	10
51-9122	Painters, Transportation Equipment	*	*	*	*	*	*	*	21.10	10
51-9123	Painting, Coating, and Decorating Workers	*	*	*	*	*	*	*	11.22	11
51-9131	Photographic Process Workers	*	*	*	*	*	*	*	11.64	11
51-9132	Photographic Processing Machine Operators	*	*	*	*	*	*	*	9.85	11

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Production Occupations (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average	Educ/
Code	Title	2008	2018	2008-2018		Average Annual 2008-2018			Wage	Training
		Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	Req'd~
51-9191	Cementing & Gluing Machine Ops. & Tenders	*	*	*	*	*	*	*	12.77	10
51-9192	Clean, Wash & Metal Pickling Equip. Ops. & Tend.	*	*	*	*	*	*	*	13.88	10
51-9193	Cooling & Freezing Equipment Ops. & Tenders	*	*	*	*	*	*	*	15.76	10
51-9194	Etchers and Engravers	*	*	*	*	*	*	*	13.17	9
51-9195	Molders, Shapers & Casters, Excl. Metal & Plastic	*	*	*	*	*	*	*	13.11	10
51-9196	Paper Goods Machine Setters, Ops. & Tenders	*	*	*	*	*	*	*	15.54	10
51-9197	Tire Builders	*	*	*	*	*	*	*	13.11	10
51-9198	Helpers--Production Workers	72	65	-7	-9.72	0	1	1	12.42	11
51-9199	Production Workers, All Other	58	45	-13	-22.41	0	1	1	13.00	10

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Transportation & Material Moving Occs.

### Occupational Employment Outlook

Occupational Code	Occupational Title	Employment*		Change 2008-2018		Job Openings Average Annual 2008-2018			Average Wage 2010	Educ/ Training Req'd~
		2008 Estimated	2018 Projected	Number	Percent	Growth	Separations	Total		
<b>53-0000 Transportation and Material Moving Occupations</b>		<b>4,217</b>	<b>4,224</b>	<b>7</b>	<b>0.17</b>	<b>16</b>	<b>107</b>	<b>123</b>	<b>16.14</b>	<b>n/a</b>
<b>53-1000</b>	<b>Supervisors, Transp. &amp; Material Moving Workers</b>	<b>201</b>	<b>195</b>	<b>-6</b>	<b>-2.99</b>	<b>0</b>	<b>3</b>	<b>3</b>	<b>n/a</b>	<b>n/a</b>
53-1011	Aircraft Cargo Handling Supervisors	*	*	*	*	*	*	*	19.04	8
53-1021	Mgrs. of Helpers, Laborers & Material Movers, Hand	*	*	*	*	*	*	*	21.05	8
53-1031	Mgrs. of Transp., Material-Moving & Vehicle Ops.	152	145	-7	-4.61	0	3	3	23.22	8
<b>53-2000</b>	<b>Air Transportation Workers</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>*</b>	<b>n/a</b>	<b>n/a</b>
53-2011	Airline Pilots, Copilots, and Flight Engineers	*	*	*	*	*	*	*	n/a	5
53-2012	Commercial Pilots	*	*	*	*	*	*	*	n/a	7
53-2021	Air Traffic Controllers	*	*	*	*	*	*	*	46.30	9
53-2022	Airfield Operations Specialists	*	*	*	*	*	*	*	22.26	9
<b>53-3000</b>	<b>Motor Vehicle Operators</b>	<b>1,777</b>	<b>1,859</b>	<b>82</b>	<b>4.61</b>	<b>9</b>	<b>32</b>	<b>41</b>	<b>n/a</b>	<b>n/a</b>
53-3011	Ambulance Drivers & Attend., Excl. EMTs	*	*	*	*	*	*	*	10.78	10
53-3021	Bus Drivers, Transit and Intercity	*	*	*	*	*	*	*	13.13	10
53-3022	Bus Drivers, School	346	334	-12	-3.47	0	6	6	14.77	10
53-3031	Driver/Sales Workers	256	256	0	0.00	0	5	5	11.99	11
53-3032	Truck Drivers, Heavy and Tractor-Trailer	659	731	72	10.93	7	12	19	18.02	11
53-3033	Truck Drivers, Light or Delivery Services	388	394	6	1.55	1	7	8	13.74	11
53-3041	Taxi Drivers and Chauffeurs	99	112	13	13.13	1	2	3	8.95	11
53-3099	Motor Vehicle Operators, All Other	*	*	*	*	*	*	*	16.01	11
<b>53-4000</b>	<b>Rail Transportation Workers</b>	<b>505</b>	<b>532</b>	<b>27</b>	<b>5</b>	<b>3</b>	<b>17</b>	<b>20</b>	<b>n/a</b>	<b>n/a</b>
53-4011	Locomotive Engineers	197	205	8	4	1	6	7	n/a	10
53-4012	Locomotive Firers	*	*	*	*	*	*	*	n/a	10
53-4013	Rail Yard Engineers, Dinkey Ops. & Hostlers	*	*	*	*	*	*	*	16.78	10
53-4021	Railroad Brake, Signal, and Switch Operators	*	*	*	*	*	*	*	21.04	10
53-4031	Railroad Conductors and Yardmasters	163	175	12	7	1	6	7	21.99	10
53-4099	Rail Transportation Workers, All Other	*	*	*	*	*	*	*	19.23	10
<b>53-5000</b>	<b>Water Transportation Workers</b>	<b>183</b>	<b>210</b>	<b>27</b>	<b>14.75</b>	<b>3</b>	<b>8</b>	<b>11</b>	<b>n/a</b>	<b>n/a</b>
53-5011	Sailors and Marine Oilers	*	*	*	*	*	*	*	14.69	11
53-5021	Captains, Mates, and Pilots of Water Vessels	64	74	10	15.63	1	3	4	28.55	8
53-5022	Motorboat Operators	*	*	*	*	*	*	*	19.25	10
53-5031	Ship Engineers	*	*	*	*	*	*	*	32.14	8

\* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

# FIVCO Area

## Transportation & Material Moving Occs. (cont'd)

### Occupational Employment Outlook

Occupational		Employment*		Change		Job Openings			Average Wage	Educ/ Training Req'd~
		2008	2018	2008-2018		Average Annual 2008-2018				
Code	Title	Estimated	Projected	Number	Percent	Growth	Separations	Total	2010	
<b>53-6000</b>	<b>Other Transportation Workers</b>	<b>146</b>	<b>145</b>	<b>-1</b>	<b>-0.68</b>	<b>0</b>	<b>6</b>	<b>6</b>	<b>n/a</b>	<b>n/a</b>
53-6011	Bridge and Lock Tenders	*	*	*	*	*	*	*	n/a	11
53-6021	Parking Lot Attendants	42	42	0	0.00	0	2	2	10.31	11
53-6031	Service Station Attendants	75	72	-3	-4.00	0	3	3	10.40	11
53-6041	Traffic Technicians	*	*	*	*	*	*	*	19.34	11
53-6051	Transportation Inspectors	*	*	*	*	*	*	*	32.33	8
53-6099	Transportation Workers, All Other	*	*	*	*	*	*	*	14.42	11
<b>53-7000</b>	<b>Material Moving Workers</b>	<b>1,403</b>	<b>1,280</b>	<b>-123</b>	<b>-8.77</b>	<b>0</b>	<b>42</b>	<b>42</b>	<b>n/a</b>	<b>n/a</b>
53-7011	Conveyor Operators and Tenders	*	*	*	*	*	*	*	15.57	11
53-7021	Crane and Tower Operators	132	110	-22	-16.67	0	3	3	18.49	9
53-7031	Dredge Operators	*	*	*	*	*	*	*	n/a	10
53-7032	Excavating & Loading Machine & Dragline Ops.	*	*	*	*	*	*	*	17.56	10
53-7033	Loading Machine Operators, Underground Mining	*	*	*	*	*	*	*	21.76	10
53-7041	Hoist and Winch Operators	*	*	*	*	*	*	*	17.67	10
53-7051	Industrial Truck and Tractor Operators	210	201	-9	-4.29	0	6	6	14.20	11
53-7061	Cleaners of Vehicles and Equipment	86	81	-5	-5.81	0	3	3	10.55	11
53-7062	Laborers & Freight, Stock & Material Movers, Hand	691	644	-47	-6.80	0	22	22	11.32	11
53-7063	Machine Feeders and Offbearers	*	*	*	*	*	*	*	12.94	11
53-7064	Packers and Packagers, Hand	89	78	-11	-12.36	0	2	2	10.05	11
53-7071	Gas Compressor & Gas Pumping Station Ops.	*	*	*	*	*	*	*	n/a	10
53-7072	Pump Operators, Except Wellhead Pumpers	*	*	*	*	*	*	*	17.53	10
53-7073	Wellhead Pumpers	*	*	*	*	*	*	*	14.55	10
53-7081	Refuse and Recyclable Material Collectors	33	36	3	9.09	0	1	1	12.92	11
53-7111	Shuttle Car Operators	*	*	*	*	*	*	*	21.28	11
53-7121	Tank Car, Truck, and Ship Loaders	84	65	-19	-22.62	0	2	2	18.39	10
53-7199	Material Moving Workers, All Other	*	*	*	*	*	*	*	18.25	10

\* Employment under 30 and unreliable data suppressed      n/a - Not Available      ~ Education/Training Required Codes- Page 49

Source: Kentucky Education and Workforce Development Cabinet, Department for Workforce Investment, Office of Employment and Training, Research and Statistics Branch

## Educational/Training Classifications

Occupations are classified into 11 categories and listed according to these principles:

An occupation is placed into the category that best describes the education or training needed by most workers to become fully qualified.

Postsecondary awards, if generally needed for entry into the occupation, take precedence over work-related training even though additional skills or experience may be needed for a worker to become fully qualified.

The length of time an average worker generally needs to become fully qualified through a combination of on-the-job training and experience is used to categorize occupations in which a postsecondary award generally is needed for entry.

### Postsecondary awards

**(1) First professional degree.** Completion of the degree usually requires at least three years of full-time academic study beyond a bachelor's degree.

**(2) Doctoral degree.** Completion of a Ph.D. or other doctoral degree usually requires at least three years of full-time academic study beyond a bachelor's degree.

**(3) Master's degree.** Completion of the degree usually requires one or two years of full time academic study beyond a bachelor's degree.

**(4) Bachelor's or higher degree, plus work experience.** Most occupations in this category are management occupations. All require experience in a related non-management position for which a bachelor's or higher degree is usually required.

**(5) Bachelor's degree.** Completion of the degree generally requires at least four years, but not more than five years, of full-time academic study.

**(6) Associate's degree.** Completion of the degree usually requires at least two years of full-time academic study.

**(7) Postsecondary vocational awards.** Some programs last only a few weeks while others may last more than a year. Programs lead to a certificate or other award, but not a degree.

### Work-related training

**(8) Work experience in a related occupation.** Many occupations requiring work experience are managers of service, sales and related, production, other occupations, or are management occupations.

**(9) Long-term, on-the-job training.** More than 12 months of on-the-job training or combined work experience and formal classroom instruction are needed for workers to develop the skills necessary to be fully qualified. This category includes formal and informal apprenticeships that may last up to five years. Long-term on-the-job training also includes intensive occupation-specific, employer-sponsored programs that workers must successfully complete. These include fire and police academies and schools for air traffic controllers and flight attendants. In other occupations, like insurance sales and securities sales, for example, trainees take formal courses, often provided on the job site, to prepare for the required licensing exams. Individuals undergoing training generally are considered to be employed in the occupation. Also included in this category is the development of a natural ability - such as that possessed by musicians, athletes, actors, and other entertainers - that must be cultivated over several years, frequently in a nonwork setting.

**(10) Moderate-term, on-the-job training.** Skills needed to be fully qualified can be acquired during one to twelve months of combined on-the-job experience and informal training.

**(11) Short-term, on-the-job training.** Skills needed to be fully qualified can be acquired during a short demonstration of job duties or during one month or less of on-the-job experience or instruction.

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Actors	24
Actuaries	14
Administrative Law Judges, Adjudicators, & Hearing Officers	20
Administrative Services Managers	11
Adult Literacy, Remedial Education, & GED Teachers & Instructors	23
Advertising & Promotions Managers	11
Advertising Sales Agents	34
Advertising, Marketing, Promotions, Public Relations, & Sales Managers	11
Aerospace Engineering & Operations Technicians	16
Aerospace Engineers	15
Agents & Business Managers of Artists, Performers, & Athletes	13
Agricultural & Food Science Technicians	18
Agricultural Engineers	15
Agricultural Equipment Operators	37
Agricultural Inspectors	37
Agricultural Sciences Teachers, Postsecondary	21
Agricultural Workers	37
Agricultural Workers, All Other	37
Air Traffic Controllers	47
Air Transportation Workers	47
Aircraft Cargo Handling Supervisors	47
Aircraft Mechanics & Service Technicians	40
Aircraft Structure, Surfaces, Rigging, & Systems Assemblers	42
Airfield Operations Specialists	47
Airline Pilots, Copilots, & Flight Engineers	47
Ambulance Drivers & Attendants, Except Emergency Medical Technicians	47
Amusement & Recreation Attendants	32
Anesthesiologists	26
Animal Breeders	37
Animal Care & Service Workers	32
Animal Control Workers	29
Animal Scientists	17
Animal Trainers	32
Anthropologists & Archeologists	18
Anthropology & Archeology Teachers, Postsecondary	21
Appraisers & Assessors of Real Estate	13
Arbitrators, Mediators, & Conciliators	20
Architects, Except Landscape & Naval	15
Architects, Surveyors, & Cartographers	15
Architectural & Civil Drafters	16
Architecture & Engineering Occupations	15
Architecture Teachers, Postsecondary	21
Archivists	23
Area, Ethnic, & Cultural Studies Teachers, Postsecondary	21
Art & Design Workers	24
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Art, Drama, & Music Teachers, Postsecondary	22
Artists & Related Workers, All Other	24
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Assemblers & Fabricators	42
Assemblers & Fabricators, All Other	42
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Atmospheric & Space Scientists	17
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Audio & Video Equipment Technicians	25
Audiologists	26
Audio-Visual Collections Specialists	23
Automotive Body & Related Repairers	40
Automotive Glass Installers & Repairers	40
Automotive Service Technicians & Mechanics	40
Avionics Technicians	40

**B**

Bailiffs	29
Bakers	42
Barbers	32
Bartenders	30
Bicycle Repairers	40
Bill & Account Collectors	35
Billing & Posting Clerks & Machine Operators	35
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Biochemists & Biophysicists	17
Biological Science Teachers, Postsecondary	21
Biological Scientists, All Other	17
Biological Technicians	18
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Boilermakers	38
Bookbinders	43
Bookkeeping, Accounting, & Auditing Clerks	35
Brickmasons & Blockmasons	38
Bridge & Lock Tenders	48
Broadcast News Analysts	25
Broadcast Technicians	25
Brokerage Clerks	35
Budget Analysts	13
Building & Grounds Cleaning & Maintenance Occupations	31
Building Cleaning & Pest Control Workers	31
Building Cleaning Workers, All Other	31
Bus & Truck Mechanics & Diesel Engine Specialists	40
Bus Drivers, School	47
Bus Drivers, Transit & Intercity	47
Business & Financial Operations Occupations	13
Business Operations Specialists	13
Business Operations Specialists, All Other	13
Business Teachers, Postsecondary	21
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Cabinetmakers & Bench Carpenters	44
Camera & Photographic Equipment Repairers	41
Camera Operators, Television, Video, & Motion Picture	25
Captains, Mates, & Pilots of Water Vessels	47
Cardiovascular Technologists & Technicians	27
Cargo & Freight Agents	36
Carpenters	38
Carpet Installers	38
Cartographers & Photogrammetrists	15
Cashiers	34
Cement Masons & Concrete Finishers	38
Cementing & Gluing Machine Operators & Tenders	46
Chefs & Head Cooks	30
Chemical Engineers	15
Chemical Equipment Operators & Tenders	45
Chemical Plant & System Operators	45
Chemical Technicians	18
Chemistry Teachers, Postsecondary	21
Chemists	17
Chief Executives	11
Child Care Workers	33
Child, Family, & School Social Workers	19
Chiropractors	26
Choreographers	24
Civil Engineering Technicians	16
Civil Engineers	15
Claims Adjusters, Examiners, & Investigators	13
Cleaners of Vehicles & Equipment	48
Cleaning, Washing, & Metal Pickling Equipment Operators & Tenders	46
Clergy	19
Clinical, Counseling, & School Psychologists	18
Coaches & Scouts	24
Coating, Painting, & Spraying Machine Setters, Operators, & Tenders	45
Coil Winders, Tapers, & Finishers	42
Coin, Vending, & Amusement Machine Servicers & Repairers	41
Combined Food Preparation & Serving Workers, Including Fast Food	30
Commercial & Industrial Designers	24
Commercial Divers	41
Commercial Pilots	47
Communications Equipment Operators	35
Communications Equipment Operators, All Other	35
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Computer Programmers	21
Computer Science Teachers, Postsecondary	14
Computer Software Engineers, Applications	14
Computer Software Engineers, Systems Software	14
Computer Specialists	14
Computer Specialists, All Other	14
Computer Support Specialists	14
Computer Systems Analysts	40
Computer, Automated Teller, & Office Machine Repairers	42
Computer-Controlled Machine Tool Operators, Metal & Plastic	32
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Conservation Scientists	39
Construction & Building Inspectors	38
Construction & Extraction Occupations	39
Construction & Related Workers, All Other	38
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Construction Managers	38
Construction Trades Workers	39
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Control & Valve Installers & Repairers, Except Mechanical Door	48
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Cooks, Institution & Cafeteria	30
Cooks, Private Household	30
Cooks, Restaurant	30
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Costume Attendants	19
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Counselors, Social Workers, & Other Community & Social Service Specialists	34
Counter & Rental Clerks	30
Counter Attendants, Cafeteria, Food Concession, & Coffee Shop	36
Couriers & Messengers	20
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Court, Municipal, & License Clerks	24
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Crane & Tower Operators	13
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Credit Authorizers, Checkers, & Clerks	22
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Cutting & Slicing Machine Setters, Operators, & Tenders	45
Cutting, Punching, & Press Machine Setters, Operators, & Tenders, Metal & Plastic	43

**D**

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Dental Assistants	28
Dental Hygienists	27
Dental Laboratory Technicians	45
Dentists, General	26
Derrick Operators, Oil & Gas	39
Designers, All Other	24
Desktop Publishers	36
Detectives & Criminal Investigators	29
Diagnostic Medical Sonographers	27
Dietetic Technicians	27
Dietitians & Nutritionists	26
Dining Room & Cafeteria Attendants & Bartender Helpers	30
Directors, Religious Activities & Education	19
Dishwashers	30
Dispatchers, Except Police, Fire, & Ambulance	36
Door-To-Door Sales Workers, News & Street Vendors, & Related Workers	34
Drafters, All Other	16
Drafters, Engineering, & Mapping Technicians	16
Dredge Operators	48
Drilling & Boring Machine Tool Setters, Operators, & Tenders	43
Driver/Sales Workers	47
Drywall & Ceiling Tile Installers	38

**E**

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Economics Teachers, Postsecondary	21
Economists	18
Editors	25
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Education Administrators, Postsecondary	12
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Electric Motor, Power Tool, & Related Repairers	40
Electrical & Electronic Engineering Technicians	16
Electrical & Electronic Equipment Assemblers	42
Electrical & Electronic Equipment Mechanics, Installers, & Repairers	40
Electrical & Electronics Drafters	16
Electrical & Electronics Installers & Repairers, Transportation Equipment	40
Electrical & Electronics Repairers, Commercial & Industrial Equipment	40
Electrical & Electronics Repairers, Powerhouse, Substation	40
Electrical Engineers	15
Electrical Power-Line Installers & Repairers	41
Electricians	38
Electromechanical Equipment Assemblers	42
Electro-Mechanical Technicians	16
Electronic Equipment Installers & Repairers, Motor Vehicle	40
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Electronics Engineers, Except Computer	15
Elementary School Teachers, Except Special Education	22
Elevator Installers & Repairers	39
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Embalmers	32
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Emergency Medical Technicians & Paramedics	27
Employment, Recruitment, & Placement Specialists	13
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Family & General Practitioners	26
Farm & Home Management Advisors	23
Farm Equipment Mechanics	40
Farm Labor Contractors	37
Farm, Ranch, & Other Agricultural Managers	12
Farmers & Ranchers	12
Farming, Fishing, & Forestry Occupations	37
Farmworkers & Laborers, Crop, Nursery, & Greenhouse	37
Farmworkers, Farm & Ranch Animals	37
Fashion Designers	24
Fence Erectors	39
Fiberglass Laminators & Fabricators	42
File Clerks	35
Film & Video Editors	25
Financial Analysts	13
Financial Clerks	35
Financial Examiners	13
Financial Managers	11
Financial Specialists	13
Financial Specialists, All Other	13
Fine Artists, Including Painters, Sculptors, & Illustrators	24
Fire Fighters	29
Fire Fighting & Prevention Workers	29
Fire Inspectors & Investigators	29
First-Line Supervisors/Managers of Construction Trades & Extraction Workers	38
First-Line Supervisors/Managers of Correctional Officers	29
First-Line Supervisors/Managers of Farming, Fishing, & Forestry Workers	37
First-Line Supervisors/Managers of Fire Fighting & Prevention Workers	29
First-Line Supervisors/Managers of Food Preparation & Serving Workers	30
First-Line Supervisors/Managers of Helpers, Laborers, & Material Movers, Hand	47
First-Line Supervisors/Managers of Housekeeping & Janitorial Workers	31
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First-Line Supervisors/Managers of Mechanics, Installers, & Repairers	40
First-Line Supervisors/Managers of Non-Retail Sales Workers	34
First-Line Supervisors/Managers of Office & Administrative Support Workers	35
First-Line Supervisors/Managers of Personal Service Workers	32
First-Line Supervisors/Managers of Police & Detectives	29
First-Line Supervisors/Managers of Production & Operating	42
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