

Northern Kentucky Area Occupational Outlook to 2018



Education and Workforce Development Cabinet
Department of Workforce Investment
Office of Employment and Training



**Northern Kentucky Area
Occupational Outlook to 2018**

STEVEN L. BESHEAR
Governor

**A LABOR MARKET INFORMATION PUBLICATION BY:
RESEARCH AND STATISTICS BRANCH**

Ron Crouch, Director

Thomas Howell, Manager
Research and Statistics Branch

Barrett Ross
Workforce Research Analyst

May 2011

EQUAL OPPORTUNITY EMPLOYER/PROGRAM

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

PRINTED WITH FEDERAL FUNDS

TABLE OF CONTENTS

	PAGE
PREFACE	2
INTRODUCTION	3
HIGHLIGHTS	4
A USER'S GUIDE TO OCCUPATIONAL OUTLOOK STATISTICS	5
FASTEST GROWING AREA OCCUPATIONS	6
OCCUPATIONS WITH MOST ANNUAL JOB OPENINGS	8
EXPLANATION OF DATA ELEMENTS IN THE OCCUPATIONAL OUTLOOK TABLE	10
AREA EMPLOYMENT OUTLOOK AND JOB OPENINGS TABLE	11
EDUCATION AND TRAINING CLASSIFICATION	49
ALPHABETICAL INDEX OF OCCUPATIONS	50

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.

Questions, comments, or copies:

Barrett Ross
Office of Employment and Training
Research and Statistics Branch
Human Resources Building, 2nd Floor West
275 East Main Street
Frankfort, Kentucky 40621
800-542-8840
502-564-7976
Fax: 502-564-2937
BarrettM.Ross@ky.gov

Material in this publication is in the public domain and with appropriate credit may be reproduced without permission. Please reference: "Kentucky Department for Workforce Investment, Labor Market Information."

INTRODUCTION

Northern Kentucky 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 *Northern Kentucky 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>.

NORTHERN KENTUCKY HIGHLIGHTS 2008-2018

- ✓ Employment is projected to grow from 206,661 to 224,044, a gain of 8.4 percent.
- ✓ Total annual job openings are expected to be about 6,923.
- ✓ Growth in employment will create about 2,019 job openings annually.
- ✓ Approximately 4,904 annual job openings will result from separations from the labor force due to retirement or those who transfer to other jobs.
- ✓ Twenty-nine percent of job openings will result from growth; the remaining 71 percent will result from separations from the labor force.
- ✓ The greatest number of annual job openings will be in Office and Administrative Support Occupations (1,192), followed by Food Preparation and Serving Related Occupations (886) and Sales and Related Occupations (784).
- ✓ The two occupations with the largest projected number of annual job openings are Customer Service Representatives (266) and Waiters and Waitresses (265).
- ✓ The highest growth rates among occupational groups are likely to be in Occupational and Physical Therapist Assistant and Aide Occupations (36.6%), followed by Social Scientist and Related Worker Occupations (31.5%) and Nursing, Psychiatric, and Home Health Aide Occupations (26.3%).
- ✓ Some specific occupations with the largest percentage change are Home Health Aides (56.5%), Personal and Home Care Aides (51.8%) and Physician Assistants (47.1%).

USER'S GUIDE TO OCCUPATIONAL OUTLOOK STATISTICS

When looking at an occupation, what key outlook data should you review?	<p>1) Total average annual job openings, and 2) employment change expressed as a percentage.</p> <p>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>
What creates job openings?	<p>1) Employment growth (new jobs), and 2) employment separations (job vacancies created by persons separating from an occupation).</p>
What causes employment change?	<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>
What about employment separations?	<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>
Do workers tend to leave one occupation more than other occupations?	<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>
What factors affect the number of job openings for an occupation?	<p>1) The number of workers who are currently employed, 2) the number of job vacancies created by worker separation, and 3) the rate of change, i.e., how fast the occupation is growing or declining.</p>
Which factor is more important?	<p>The size of employment and separation rate is more important than rate of change.</p>
What is the best way to compare one occupation with another?	<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 Northern Kentucky Area Occupations**

Rank	Code	Occupational Title	Employment		Change		Avg. Annual Openings
			2008	2018	Number	Percent	
1	31-1011	Home Health Aides	423	662	239	56.5	28
2	39-9021	Personal and Home Care Aides	274	416	142	51.8	17
3	19-1042	Medical Scientists, Excl. Epidemiologists	33	50	17	51.5	3
4	29-1071	Physician Assistants	68	100	32	47.1	4
5	15-1081	Network Systems & Data Communications Analysts	230	337	107	46.5	15
6	49-9062	Medical Equipment Repairers	63	91	28	44.4	5
7	13-2071	Loan Counselors	35	50	15	42.9	2
8	19-3021	Market Research Analysts	409	579	170	41.6	28
9	31-2021	Physical Therapist Assistants	51	71	20	39.2	3
10	31-2022	Physical Therapist Aides	64	87	23	35.9	3
11	29-2056	Veterinary Technologists and Technicians	181	246	65	35.9	12
12	13-1111	Management Analysts	657	891	234	35.6	34
13	29-1123	Physical Therapists	173	232	59	34.1	8
14	29-1131	Veterinarians	88	118	30	34.1	5
15	31-9091	Dental Assistants	382	510	128	33.5	20
16	29-2021	Dental Hygienists	138	183	45	32.6	8
17	39-9031	Fitness Trainers and Aerobics Instructors	430	566	136	31.6	22
18	21-1011	Substance Abuse & Behavioral Disorder Couns.	55	72	17	30.9	3
19	31-9092	Medical Assistants	615	804	189	30.7	26
20	27-2022	Coaches and Scouts	233	304	71	30.5	12
21	13-1041	Compliance Ofcr., Excl. Ag., Constr., Health & Trans	809	1,055	246	30.4	34
22	13-2052	Personal Financial Advisors	731	952	221	30.2	30
23	15-1031	Computer Software Engineers, Applications	578	752	174	30.1	22
24	25-9031	Instructional Coordinators	177	230	53	29.9	9
25	11-9039	Education Administrators, All Other	41	53	12	29.3	2

Top 50 (cont.)
Fastest Growing Northern Kentucky Area Occupations

Rank	Code	Occupational Title	Employment		Change		Avg. Annual Openings
			2008	2018	Number	Percent	
26	21-1014	Mental Health Counselors	153	197	44	28.8	7
27	49-9021	Heating, A.C. & Refrigeration Mech. & Installers	558	717	159	28.5	25
28	19-3022	Survey Researchers	90	115	25	27.8	5
29	53-7081	Refuse and Recyclable Material Collectors	160	203	43	26.9	9
30	29-1126	Respiratory Therapists	147	186	39	26.5	7
31	23-2011	Paralegals and Legal Assistants	592	749	157	26.5	23
32	29-2052	Pharmacy Technicians	600	759	159	26.5	31
33	29-1067	Surgeons	87	110	23	26.4	4
34	29-2031	Cardiovascular Technologists and Technicians	114	144	30	26.3	5
35	19-4061	Social Science Research Assistants	46	58	12	26.1	3
36	29-1111	Registered Nurses	2,944	3,710	766	26.0	128
37	25-3021	Self-Enrichment Education Teachers	54	68	14	25.9	2
38	29-1063	Internists, General	128	161	33	25.8	5
39	19-4099	Life, Physical & Social Science Techs., All Other	35	44	9	25.7	3
40	29-1061	Anesthesiologists	83	104	21	25.3	4
41	39-3099	Entertainment Attend. & Related Workers, Other	100	125	25	25.0	8
42	21-1099	Community & Social Service Specialists, All Other	40	50	10	25.0	2
43	29-2055	Surgical Technologists	86	107	21	24.4	4
44	29-1066	Psychiatrists	41	51	10	24.4	2
45	27-3091	Interpreters and Translators	76	94	18	23.7	4
46	29-2071	Medical Records & Health Info. Technicians	284	351	67	23.6	13
47	21-1022	Medical and Public Health Social Workers	60	74	14	23.3	3
48	29-1122	Occupational Therapists	60	74	14	23.3	2
49	39-9032	Recreation Workers	185	228	43	23.2	7
50	27-3043	Writers and Authors	61	75	14	23.0	2

Top 50
Northern Kentucky Area Occupations with Most Annual Job Openings

Rank	Code	Occupational Title	Employment		Change		Avg. Annual Openings
			2008	2018	Number	Percent	
1	43-4051	Customer Service Representatives	5,855	6,679	824	14.1	266
2	35-3031	Waiters and Waitresses	4,401	4,622	221	5.0	265
3	41-2031	Retail Salespersons	6,540	7,060	520	8.0	234
4	41-2011	Cashiers	4,730	4,915	185	3.9	231
5	35-3021	Combined Food Preparation & Service Workers	4,761	5,401	640	13.4	165
6	43-5081	Stock Clerks and Order Fillers	4,186	4,642	456	10.9	142
7	29-1111	Registered Nurses	2,944	3,710	766	26.0	128
8	53-7062	Laborers & Freight, Stock & Material Movers, Hand	3,384	3,480	96	2.8	119
9	41-4012	Sales Reps., Wholesale & Manuf., Excl. Tech. & Sci.	2,964	3,253	289	9.8	98
10	53-3032	Truck Drivers, Heavy and Tractor-Trailer	2,782	3,144	362	13.0	86
11	13-2081	Tax Examiners, Collectors, and Revenue Agents	1,458	1,752	294	20.2	81
12	43-1011	Managers of Office & Admin. Support Workers	2,494	2,717	223	8.9	78
13	39-9011	Child Care Workers	1,885	2,107	222	11.8	77
14	35-3022	Counter Attendants, Cafeteria & Food Concession	952	1,021	69	7.2	77
15	11-1021	General and Operations Managers	2,630	2,545	-85	-3.2	76
16	43-4171	Receptionists and Information Clerks	1,790	2,031	241	13.5	72
17	35-3011	Bartenders	1,377	1,545	168	12.2	66
18	31-1012	Nursing Aides, Orderlies, and Attendants	2,115	2,551	436	20.6	65
19	43-3031	Bookkeeping, Accounting, and Auditing Clerks	3,234	3,489	255	7.9	65
20	41-1011	Managers of Retail Sales Workers	2,483	2,589	106	4.3	64
21	53-7051	Industrial Truck and Tractor Operators	1,689	1,786	97	5.7	60
22	37-2011	Janitors & Cleaners, Excl. Maids & Housekeeping	2,576	2,682	106	4.1	60
23	43-6011	Executive Secretaries & Admin. Assistants	2,238	2,468	230	10.3	53
24	35-2014	Cooks, Restaurant	1,645	1,754	109	6.6	53
25	25-9041	Teacher Assistants **	1,538	1,729	191	12.4	52

Top 50 (cont.)
Northern Kentucky Area Occupations with Most Annual Job Openings

Rank	Code	Occupational Title	Employment		Change		Avg. Annual Openings
			2008	2018	Number	Percent	
26	35-2021	Food Preparation Workers	1,140	1,240	100	8.8	51
27	51-2092	Team Assemblers	2,021	2,069	48	2.4	51
28	11-9199	Managers, All Other	1,343	1,489	146	10.9	50
29	49-9042	Maintenance and Repair Workers, General	2,228	2,387	159	7.1	50
30	13-2011	Accountants and Auditors	1,185	1,450	265	22.4	47
31	25-2031	Sec. School Teachers, Excl. Special and Voc. Ed. **	1,104	1,233	129	11.7	45
32	33-2011	Fire Fighters	780	958	178	22.8	42
33	53-3033	Truck Drivers, Light or Delivery Services	1,488	1,642	154	10.3	42
34	29-2061	Licensed Practical & Licensed Voc. Nurses	804	962	158	19.7	41
35	43-4111	Interviewers, Excl. Eligibility and Loan	1,167	1,301	134	11.5	41
36	43-5071	Shipping, Receiving, and Traffic Clerks	1,662	1,608	-54	-3.2	41
37	43-9061	Office Clerks, General	1,778	1,940	162	9.1	40
38	39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,245	1,452	207	16.6	39
39	51-9198	Helpers--Production Workers	1,417	1,561	144	10.2	39
40	35-9021	Dishwashers	758	829	71	9.4	38
41	43-3071	Tellers	673	743	70	10.4	35
42	13-1111	Management Analysts	657	891	234	35.6	34
43	13-1041	Compliance Ofcr., Excl. Ag., Constr., Health & Trans	809	1,055	246	30.4	34
44	25-2022	Middle School Teachers, Excl. Special & Voc. Ed. **	830	982	152	18.3	34
45	43-3021	Billing and Posting Clerks and Machine Operators	990	1,162	172	17.4	33
46	37-3011	Landscaping and Groundskeeping Workers	1,182	1,374	192	16.2	33
47	35-2012	Cooks, Institution and Cafeteria	1,005	1,071	66	6.6	33
48	35-9011	Dining Room, Cafeteria Attend. & Bartender Help.	666	701	35	5.3	33
49	51-9199	Production Workers, All Other	758	897	139	18.3	32
50	41-3099	Sales Representatives, Services, All Other	966	1,049	83	8.6	32

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>Occupational Codes & Titles used in this report are based on the Standard Occupational Coding (SOC) structure.</p> <p>NOTE: Alphabetical listing beginning on page 50 will help locate a specific occupation within the tables.</p>		<p>Estimated 2008 employment is based on the Occupational Employment Statistics (OES) Survey of employers.</p> <p>Projected 2018 levels of occupational employment are based on projections of industry employment and projections of occupational change factors between 2008 and 2018.</p> <p>NOTE: 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>Number The total number of jobs in an occupation gained or lost over the 2008 to 2018 period.</p> <p>Percent Percent change in employment in an occupation over the 10 year period.</p> <p>NOTE: 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"> 1) Declining (< -4.0%) 2) Stable (-4.0% - 4.0%) 3) Growing (4.1% - 10.0%) 4) Fast Growing (10.1% - 15.0%) 5) Very Fast Growing (> 15.0%) 		<p>Growth Provides estimates of the average number of job openings expected to occur due to employment growth each year between 2008 and 2018.</p> <p>Separations 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>Total The sum of openings due to growth and openings due to separations for an occupation.</p> <p>NOTE: If employment growth is negative, the total number of job openings will equal the number of separations.</p>			<p>Average Wage in this report always refers to the 2010 statewide mean hourly wage for each occupation.</p> <p>NOTE: For area-specific wage information, please visit the Occupational Wages section of our web site.</p>		<p>Education and/or Training Levels Required are developed by the Bureau of Labor Statistics and group occupations into eleven categories (1-11).</p> <p>NOTE: The various categories are described in detail on page 49 of this report.</p>	

Northern Kentucky Area Occupational Employment Outlook

Management Occupations

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		
00-0000 Total, All Occupations		206,661	224,044	17,383	8.41	2,019	4,904	6,923	18.21	n/a
11-0000 Management Occupations		11,535	12,124	589	5.11	74	273	347	40.00	n/a
11-1000	Top Executives	3,434	3,325	-109	-3.17	0	99	99	n/a	n/a
11-1011	Chief Executives	758	732	-26	-3.43	0	21	21	66.40	4
11-1021	General and Operations Managers	2,630	2,545	-85	-3.23	0	76	76	42.16	4
11-1031	Legislators	46	48	2	4.35	0	1	1	14.31	4
11-2000	Adv., Market., Promo., P.R. & Sales Managers	1,049	1,207	158	15.06	16	23	39	n/a	n/a
11-2011	Advertising and Promotions Managers	44	47	3	6.82	0	1	1	27.94	4
11-2021	Marketing Managers	429	500	71	16.55	7	9	16	45.99	4
11-2022	Sales Managers	450	519	69	15.33	7	10	17	44.25	4
11-2031	Public Relations Managers	126	141	15	11.90	2	3	5	33.19	4
11-3000	Operations Specialties Managers	2,518	2,664	146	5.80	18	55	73	n/a	n/a
11-3011	Administrative Services Managers	298	324	26	8.72	3	6	9	33.25	4
11-3021	Computer and Information Systems Mgrs.	391	459	68	17.39	7	6	13	45.86	4
11-3031	Financial Managers	898	960	62	6.90	6	16	22	39.81	4
11-3041	Compensation and Benefits Managers	56	62	6	10.71	1	1	2	34.01	4
11-3042	Training and Development Managers	92	102	10	10.87	1	2	3	33.75	4
11-3049	Human Resources Managers, All Other	138	148	10	7.25	1	3	4	41.11	4
11-3051	Industrial Production Managers	338	312	-26	-7.69	0	12	12	39.37	8
11-3061	Purchasing Managers	95	96	1	1.05	0	3	3	40.82	4
11-3071	Transportation, Storage, & Distribution Mgrs.	212	201	-11	-5.19	0	6	6	37.37	8
11-9000	Other Management Occupations	4,534	4,928	394	8.69	40	96	136	n/a	n/a
11-9011	Farm, Ranch, and Other Agricultural Mgrs.	226	225	-1	-0.44	0	5	5	22.66	4
11-9012	Farmers and Ranchers	*	*	*	*	*	*	*	n/a	9
11-9021	Construction Managers	609	666	57	9.36	6	5	11	32.81	5
11-9031	Education Admin., Preschool and Child Care	100	111	11	11.00	1	3	4	22.74	4
11-9032	Education Admin., Elementary and Secondary	324	362	38	11.73	4	10	14	n/a	4
11-9033	Education Administrators, Postsecondary	99	104	5	5.05	1	3	4	43.87	4
11-9039	Education Administrators, All Other	41	53	12	29.27	1	1	2	30.69	4
11-9041	Engineering Managers	122	121	-1	-0.82	0	3	3	48.32	4
11-9051	Food Service Managers	774	808	34	4.39	3	15	18	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

Northern Kentucky Area Occupational Employment Outlook

Management Occupations (cont'd)

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	40	45	5	12.50	1	1	2	21.15	6
11-9071	Gaming Managers	*	*	*	*	*	*	*	n/a	8
11-9081	Lodging Managers	62	63	1	1.61	0	1	1	23.20	8
11-9111	Medical and Health Services Managers	257	311	54	21.01	5	5	10	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.	252	263	11	4.37	1	4	5	21.35	5
11-9151	Social and Community Service Managers	230	254	24	10.43	2	5	7	26.19	5
11-9199	Managers, All Other	1,343	1,489	146	10.87	15	35	50	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

Northern Kentucky Area Occupational Employment Outlook

Business & Financial Operations Occs.

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		
13-0000 Business and Financial Operations Occupations		9,353	11,170	1,817	19.43	182	194	376	26.17	n/a
13-1000	Business Operations Specialists	4,092	4,896	804	19.65	81	84	165	n/a	n/a
13-1011	Agents & Mgrs.- Artists, Performers & Athletes	*	*	*	*	*	*	*	39.68	4
13-1021	Purchasing Agents and Buyers, Farm Products	42	41	-1	-2.38	0	1	1	30.22	9
13-1022	Wholesale & Retail Buyers, Excl. Farm Products	120	118	-2	-1.67	0	3	3	23.51	9
13-1023	Purchasing Agents, Excl. Wholesale, Retail & Farm	359	402	43	11.98	4	10	14	24.74	9
13-1031	Claims Adjusters, Examiners, and Investigators	59	65	6	10.17	1	2	3	26.54	9
13-1032	Insurance Appraisers, Auto Damage	*	*	*	*	*	*	*	24.53	7
13-1041	Compliance Ofcr., Excl. Ag., Constr., Health & Trans.	809	1,055	246	30.41	25	9	34	22.09	9
13-1051	Cost Estimators	225	263	38	16.89	4	5	9	25.49	5
13-1061	Emergency Management Specialists	*	*	*	*	*	*	*	18.08	8
13-1071	Employment, Recruitment & Placement Specialists	159	184	25	15.72	3	4	7	19.53	5
13-1072	Compensation, Benefits & Job Analysis Specialists	126	143	17	13.49	2	3	5	27.46	5
13-1073	Training and Development Specialists	235	271	36	15.32	4	6	10	23.17	5
13-1079	Human Res., Trng. & Labor Relations Spec., Other	331	400	69	20.85	7	9	16	23.21	5
13-1081	Logisticians	89	101	12	13.48	1	2	3	30.93	5
13-1111	Management Analysts	657	891	234	35.62	23	11	34	33.10	4
13-1121	Meeting and Convention Planners	45	49	4	8.89	0	1	1	18.94	5
13-1199	Business Operations Specialists, All Other	779	846	67	8.60	7	17	24	28.23	5
13-2000	Financial Specialists	5,261	6,274	1,013	19.25	101	110	211	n/a	n/a
13-2011	Accountants and Auditors	1,185	1,450	265	22.36	27	20	47	26.98	5
13-2021	Appraisers and Assessors of Real Estate	260	260	0	0.00	0	5	5	25.43	6
13-2031	Budget Analysts	*	*	*	*	*	*	*	26.60	5
13-2041	Credit Analysts	36	43	7	19.44	1	1	2	31.38	5
13-2051	Financial Analysts	516	611	95	18.41	10	9	19	32.06	5
13-2052	Personal Financial Advisors	731	952	221	30.23	22	8	30	33.84	5
13-2053	Insurance Underwriters	*	*	*	*	*	*	*	25.05	5
13-2061	Financial Examiners	*	*	*	*	*	*	*	34.95	5
13-2071	Loan Counselors	35	50	15	42.86	2	0	2	18.82	5
13-2072	Loan Officers	459	523	64	13.94	6	5	11	25.15	10
13-2081	Tax Examiners, Collectors, and Revenue Agents	1,458	1,752	294	20.16	29	52	81	22.20	5
13-2082	Tax Preparers	72	74	2	2.78	0	1	1	13.24	10
13-2099	Financial Specialists, All Other	479	527	48	10.02	5	9	14	25.10	5

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Northern Kentucky Area Occupational Employment Outlook

Computer & Mathematical Occupations

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		
15-0000 Computer and Mathematical Occupations		3,391	3,851	460	13.57	49	62	111	29.46	n/a
15-1000	Computer Specialists	3,340	3,788	448	13.41	48	61	109	n/a	n/a
15-1011	Computer and Information Scientists, Research	*	*	*	*	*	*	*	n/a	2
15-1021	Computer Programmers	574	541	-33	-5.75	0	11	11	32.94	5
15-1031	Computer Software Engineers, Applications	578	752	174	30.10	17	5	22	33.90	5
15-1032	Computer Software Engineers, Systems Software	259	303	44	16.99	4	2	6	38.46	5
15-1041	Computer Support Specialists	715	752	37	5.17	4	20	24	19.31	6
15-1051	Computer Systems Analysts	404	456	52	12.87	5	9	14	33.94	5
15-1061	Database Administrators	112	133	21	18.75	2	2	4	28.52	5
15-1071	Network and Computer Systems Administrators	322	349	27	8.39	3	5	8	25.23	5
15-1081	Network Systems & Data Communications Analysts	230	337	107	46.52	11	4	15	28.71	5
15-1099	Computer Specialists, All Other	*	*	*	*	*	*	*	32.16	6
15-2000	Mathematical Scientists	51	63	12	23.53	1	2	3	n/a	n/a
15-2011	Actuaries	*	*	*	*	*	*	*	39.47	4
15-2021	Mathematicians	*	*	*	*	*	*	*	n/a	2
15-2031	Operations Research Analysts	37	45	8	21.62	1	1	2	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

Northern Kentucky Area Occupational Employment Outlook

Architecture & Engineering Occupations

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		
17-0000 Architecture and Engineering Occupations		2,138	2,321	183	8.56	19	46	65	30.16	n/a
17-1000	Architects, Surveyors, and Cartographers	184	212	28	15.22	3	3	6	n/a	n/a
17-1011	Architects, Excl. Landscape and Naval	109	123	14	12.84	1	2	3	29.63	5
17-1012	Landscape Architects	44	53	9	20.45	1	1	2	24.72	5
17-1021	Cartographers and Photogrammetrists	*	*	*	*	*	*	*	20.53	5
17-1022	Surveyors	*	*	*	*	*	*	*	23.83	5
17-2000	Engineers	1,131	1,245	114	10.08	12	26	38	n/a	n/a
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	165	201	36	21.82	4	3	7	33.46	5
17-2061	Computer Hardware Engineers	45	55	10	22.22	1	1	2	45.48	5
17-2071	Electrical Engineers	192	205	13	6.77	1	4	5	37.85	5
17-2072	Electronics Engineers, Excl. Computer	45	50	5	11.11	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	262	297	35	13.36	4	7	11	33.89	5
17-2121	Marine Engineers and Naval Architects	*	*	*	*	*	*	*	n/a	5
17-2131	Materials Engineers	*	*	*	*	*	*	*	35.19	5
17-2141	Mechanical Engineers	267	273	6	2.25	1	7	8	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	60	68	8	13.33	1	1	2	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

Northern Kentucky Area Occupational Employment Outlook

Architecture & Engineering Occs. (cont'd)

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		
17-3000	Drafters, Engineering, and Mapping Technicians	823	864	41	4.98	5	16	21	n/a	n/a
17-3011	Architectural and Civil Drafters	94	98	4	4.26	0	2	2	18.19	7
17-3012	Electrical and Electronics Drafters	*	*	*	*	*	*	*	27.34	7
17-3013	Mechanical Drafters	103	102	-1	-0.97	0	2	2	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	140	153	13	9.29	1	3	4	21.26	6
17-3023	Electrical and Electronic Engineering Technicians	159	166	7	4.40	1	3	4	25.64	6
17-3024	Electro-Mechanical Technicians	*	*	*	*	*	*	*	23.48	6
17-3025	Environmental Engineering Technicians	*	*	*	*	*	*	*	20.53	6
17-3026	Industrial Engineering Technicians	102	112	10	9.80	1	2	3	22.82	6
17-3027	Mechanical Engineering Technicians	82	77	-5	-6.10	0	2	2	22.27	6
17-3029	Engineering Techs., Except Drafters, All Other	*	*	*	*	*	*	*	22.02	6
17-3031	Surveying and Mapping Technicians	57	65	8	14.04	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

Northern Kentucky Area Occupational Employment Outlook

Life, Physical & Social Science Occupations

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		
19-0000	Life, Physical, and Social Science Occupations	1,250	1,559	309	24.72	31	37	68	24.83	n/a
19-1000	Life Scientists	166	200	34	20.48	3	5	8	n/a	n/a
19-1011	Animal Scientists	*	*	*	*	*	*	*	30.52	2
19-1012	Food Scientists and Technologists	62	71	9	14.52	1	2	3	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	33	50	17	51.52	2	1	3	25.10	2
19-1099	Life Scientists, All Other	*	*	*	*	*	*	*	25.09	5
19-2000	Physical Scientists	99	108	9	9.09	1	3	4	n/a	n/a
19-2011	Astronomers	*	*	*	*	*	*	*	n/a	2
19-2012	Physicists	*	*	*	*	*	*	*	67.82	2
19-2021	Atmospheric and Space Scientists	*	*	*	*	*	*	*	43.73	5
19-2031	Chemists	48	50	2	4.17	0	2	2	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

Northern Kentucky Area Occupational Employment Outlook

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

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		
19-3000	Social Scientists and Related Workers	728	957	229	31.46	23	20	43	n/a	n/a
19-3011	Economists	*	*	*	*	*	*	*	27.67	3
19-3021	Market Research Analysts	409	579	170	41.56	17	11	28	30.58	5
19-3022	Survey Researchers	90	115	25	28	3	2	5	21.18	5
19-3031	Clinical, Counseling, and School Psychologists	158	181	23	14.56	2	5	7	26.66	2
19-3039	Psychologists, All Other	*	*	*	*	*	*	*	35.29	3
19-3051	Urban and Regional Planners	39	46	7	17.95	1	1	2	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
19-4000	Life, Physical, and Social Science Technicians	257	294	37	14.40	4	9	13	n/a	n/a
19-4011	Agricultural and Food Science Technicians	31	32	1	3.23	0	1	1	16.64	6
19-4021	Biological Technicians	30	36	6	20	1	1	2	16.20	5
19-4031	Chemical Technicians	64	62	-2	-3.13	0	1	1	19.60	6
19-4041	Geological and Petroleum Technicians	*	*	*	*	*	*	*	26.86	6
19-4061	Social Science Research Assistants	46	58	12	26.09	1	2	3	16.37	6
19-4091	Environmental Sci. & Protection Techs., Incl. Health	43	52	9	20.93	1	2	3	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	35	44	9	25.71	1	2	3	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

Northern Kentucky Area Occupational Employment Outlook

Community & Social Service Occupations

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		
21-0000 Community and Social Services Occupations		1,975	2,222	247	12.51	25	45	70	18.41	n/a
21-1000	Counselors, Social Workers, Other Specialists	1,970	2,216	246	12.49	25	45	70	n/a	n/a
21-1011	Substance Abuse & Behavioral Disorder Couns.	55	72	17	30.91	2	1	3	16.95	5
21-1012	Educational, Vocational, and School Counselors	211	245	34	16.11	3	4	7	27.16	3
21-1013	Marriage and Family Therapists	82	96	14	17.07	1	2	3	20.79	3
21-1014	Mental Health Counselors	153	197	44	28.76	4	3	7	18.20	3
21-1015	Rehabilitation Counselors	123	132	9	7.32	1	3	4	17.38	3
21-1019	Counselors, All Other	*	*	*	*	*	*	*	13.76	3
21-1021	Child, Family, and School Social Workers	905	947	42	4.64	4	23	27	18.16	5
21-1022	Medical and Public Health Social Workers	60	74	14	23.33	1	2	3	20.05	5
21-1023	Mental Health & Substance Abuse Social Workers	50	61	11	22.00	1	1	2	18.00	3
21-1029	Social Workers, All Other	*	*	*	*	*	*	*	23.89	5
21-1091	Health Educators	36	41	5	13.89	1	1	2	18.55	5
21-1092	Probation Officers & Correctional Treatment Spec.	79	89	10	12.66	1	2	3	18.36	5
21-1093	Social and Human Service Assistants	157	192	35	22.29	4	3	7	12.30	10
21-1099	Community & Social Service Specialists, All Other	40	50	10	25.00	1	1	2	18.05	5
21-2000	Religious Workers	*	*	*	*	*	*	*	n/a	n/a
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

Northern Kentucky Area Occupational Employment Outlook

Legal Occupations

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		
23-0000 Legal Occupations		1,492	1,764	272	18.23	28	23	51	34.32	n/a
23-1000	Lawyers, Judges, and Related Workers	809	916	107	13.23	11	15	26	n/a	n/a
23-1011	Lawyers	724	832	108	14.92	11	14	25	47.36	1
23-1021	Adm. Law Judges, Adjudicators & Hearing Officers	42	45	3	7	0	1	1	n/a	4
23-1022	Arbitrators, Mediators, and Conciliators	*	*	*	*	*	*	*	29.07	4
23-1023	Judges, Magistrate Judges, and Magistrates	*	*	*	*	*	*	*	62.50	4
23-2000	Legal Support Workers	683	848	165	24.16	17	8	25	n/a	n/a
23-2011	Paralegals and Legal Assistants	592	749	157	26.52	16	7	23	19.38	6
23-2091	Court Reporters	*	*	*	*	*	*	*	24.70	7
23-2092	Law Clerks	36	36	0	0.00	0	1	1	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

Northern Kentucky Area Occupational Employment Outlook

Education, Training & Library Occupations

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		
25-0000 Education, Training, and Library Occupations		9,171	10,699	1,528	16.66	153	206	359	22.32	n/a
25-1000	Postsecondary Teachers	1,371	1,622	251	18.31	25	24	49	n/a	n/a
25-1011	Business Teachers, Postsecondary **	113	134	21	18.58	2	2	4	50.58	2
25-1021	Computer Science Teachers, Postsecondary **	73	86	13	17.81	1	1	2	44.24	2
25-1022	Mathematical Science Teachers, Postsecondary **	62	73	11	17.74	1	1	2	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 **	39	46	7	17.95	1	1	2	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 **	35	42	7	20.00	1	1	2	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 **	69	81	12	17.39	1	1	2	64.95	2
25-1072	Nursing Instructors & Teachers, Postsecondary **	61	72	11	18.03	1	1	2	43.23	2
25-1081	Education Teachers, Postsecondary **	81	95	14	17	1	1	2	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.

Northern Kentucky Area Occupational Employment Outlook

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

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		
25-1121	Art, Drama, and Music Teachers, Postsecondary **	74	87	13	17.57	1	1	2	36.50	2
25-1122	Communications Teachers, Postsecondary **	36	43	7	19.44	1	1	2	36.59	2
25-1123	English Language & Lit. Teachers, Post. **	84	99	15	17.86	2	2	4	34.33	2
25-1124	Foreign Language and Literature Teachers, Post. **	31	37	6	19.35	1	1	2	34.67	2
25-1125	History Teachers, Postsecondary **	30	36	6	20.00	1	1	2	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	350	414	64	18.29	6	6	12	23.58	2
25-1199	Postsecondary Teachers, All Other **	46	55	9	19.57	1	1	2	34.95	2
25-2000	Primary, Secondary & Special Ed. Teachers	4,972	5,828	856	17.22	86	121	207	n/a	n/a
25-2011	Preschool Teachers, Excl. Special Education	544	647	103	18.93	10	11	21	13.10	7
25-2012	Kindergarten Teachers, Excl. Special Education **	102	120	18	17.65	2	2	4	29.32	5
25-2021	Elementary School Teachers, Excl. Special Ed. **	*	*	*	*	*	*	*	29.01	5
25-2022	Middle School Teachers, Excl. Special & Voc. Ed. **	830	982	152	18	15	19	34	29.61	5
25-2023	Vocational Education Teachers, Middle School **	*	*	*	*	*	*	*	32.27	4
25-2031	Sec. School Teachers, Excl. Special and Voc. Ed. **	1,104	1,233	129	11.68	13	32	45	30.31	5
25-2032	Vocational Ed. Teachers, Secondary School **	33	37	4	12.12	0	1	1	33.82	4
25-2041	Spec. Ed. Teachers, Pre., Kinder. & Elem. School **	291	353	62	21.31	6	8	14	29.03	5
25-2042	Special Education Teachers, Middle School **	134	163	29	21.64	3	4	7	29.38	5
25-2043	Special Education Teachers, Secondary School **	188	218	30	15.96	3	5	8	29.88	5
25-3000	Other Teachers and Instructors	552	648	96	17.39	10	8	18	n/a	n/a
25-3011	Adult Literacy, Remedial Ed. & GED Teachers	113	135	22	19.47	2	2	4	17.32	5
25-3021	Self-Enrichment Education Teachers	54	68	14	25.93	1	1	2	13.33	8
25-3099	Teachers and Instructors, All Other **	385	445	60	15.58	6	6	12	19.67	5
25-4000	Librarians, Curators, and Archivists	372	416	44	12	4	13	17	n/a	n/a
25-4011	Archivists	*	*	*	*	*	*	*	18.24	3
25-4012	Curators	*	*	*	*	*	*	*	22.95	3
25-4013	Museum Technicians and Conservators	*	*	*	*	*	*	*	17.29	5
25-4021	Librarians	191	212	21	10.99	2	5	7	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.

Northern Kentucky Area Occupational Employment Outlook

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

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~
25-9000	Other Education, Training, and Library Occupations	1,904	2,185	281	14.76	28	41	69	n/a	n/a
25-9011	Audio-Visual Collections Specialists	*	*	*	*	*	*	*	n/a	5
25-9021	Farm and Home Management Advisors	*	*	*	*	*	*	*	n/a	5
25-9031	Instructional Coordinators	177	230	53	29.94	5	4	9	27.61	3
25-9041	Teacher Assistants **	1,538	1,729	191	12.42	19	33	52	n/a	11
25-9099	Education, Training, and Library Workers, All Other	187	224	37	19.79	4	4	8	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.

Northern Kentucky Area Occupational Employment Outlook

Arts, Design, Entertainment, Sports & Media Occs.

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		
27-0000 Arts, Design, Entertainment, Sports & Media Occs.		2,761	3,064	303	10.97	34	72	106	17.49	n/a
27-1000	Art and Design Workers	1,298	1,367	69	5.32	10	37	47	n/a	n/a
27-1011	Art Directors	*	*	*	*	*	*	*	29.61	4
27-1012	Craft Artists	*	*	*	*	*	*	*	11.33	9
27-1013	Fine Artists, Incl. Painters, Sculptors & Illustrators	50	52	2	4.00	0	1	1	16.07	9
27-1014	Multi-Media Artists and Animators	*	*	*	*	*	*	*	25.41	5
27-1019	Artists and Related Workers, All Other	280	262	-18	-6.43	0	6	6	10.59	9
27-1021	Commercial and Industrial Designers	48	42	-6	-12.50	0	2	2	23.50	5
27-1022	Fashion Designers	64	68	4	6.25	0	2	2	18.36	6
27-1023	Floral Designers	67	66	-1	-1.49	0	2	2	9.77	11
27-1024	Graphic Designers	266	294	28	10.53	3	8	11	17.45	5
27-1025	Interior Designers	80	97	17	21.25	2	3	5	17.30	6
27-1026	Merchandise Displayers and Window Trimmers	348	396	48	13.79	5	11	16	12.71	10
27-1027	Set and Exhibit Designers	*	*	*	*	*	*	*	15.35	5
27-1029	Designers, All Other	73	66	-7	-10	0	2	2	13.74	5
27-2000	Entertainers, Performers, Sports & Related	494	583	89	18.02	9	12	21	n/a	n/a
27-2011	Actors	59	63	4	7	0	1	1	10.81	9
27-2012	Producers and Directors	36	36	0	0.00	0	1	1	19.10	4
27-2021	Athletes and Sports Competitors	*	*	*	*	*	*	*	n/a	9
27-2022	Coaches and Scouts	233	304	71	30.47	7	5	12	n/a	9
27-2023	Umpires, Referees, and Other Sports Officials	55	61	6	10.91	1	1	2	n/a	9
27-2031	Dancers	*	*	*	*	*	*	*	n/a	9
27-2032	Choreographers	77	85	8	10.39	1	4	5	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	30	30	0	0.00	0	1	1	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

Northern Kentucky Area Occupational Employment Outlook

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

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		
27-3000	Media and Communication Workers	658	772	114	17.33	12	16	28	n/a	n/a
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	42	38	-4	-9.52	0	1	1	17.86	5
27-3031	Public Relations Specialists	388	470	82	21.13	8	9	17	21.67	5
27-3041	Editors	41	41	0	0.00	0	1	1	21.42	5
27-3042	Technical Writers	*	*	*	*	*	*	*	25.88	5
27-3043	Writers and Authors	61	75	14	22.95	1	1	2	19.17	5
27-3091	Interpreters and Translators	76	94	18	23.68	2	2	4	19.13	9
27-3099	Media and Communication Workers, All Other	*	*	*	*	*	*	*	19.91	9
27-4000	Media and Communication Equipment Workers	311	342	31	9.97	3	7	10	n/a	n/a
27-4011	Audio and Video Equipment Technicians	51	55	4	7.84	0	2	2	19.60	7
27-4012	Broadcast Technicians	*	*	*	*	*	*	*	18.95	6
27-4014	Sound Engineering Technicians	*	*	*	*	*	*	*	18.37	7
27-4021	Photographers	195	219	24	12.31	2	4	6	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	32	34	2	6.25	0	1	1	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

Northern Kentucky Area Occupational Employment Outlook

Healthcare Practitioners & Technical Occs.

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		
29-0000 Healthcare Practitioners and Technical Occupations		8,601	10,548	1,947	22.64	195	177	372	29.73	n/a
29-1000	Health Diagnosing and Treating Practitioners	5,078	6,297	1,219	24.01	122	94	216	n/a	n/a
29-1011	Chiropractors	127	150	23	18.11	2	2	4	48.15	1
29-1021	Dentists, General	135	151	16	11.85	2	4	6	72.52	1
29-1022	Oral and Maxillofacial Surgeons	*	*	*	*	*	*	*	n/a	1
29-1023	Orthodontists	*	*	*	*	*	*	*	92.18	1
29-1029	Dentists, All Other	59	63	4	6.78	0	2	2	43.18	1
29-1031	Dietitians and Nutritionists	34	35	1	2.94	0	1	1	23.96	5
29-1041	Optometrists	58	69	11	18.97	1	2	3	57.32	1
29-1051	Pharmacists	389	439	50	12.85	5	9	14	51.31	1
29-1061	Anesthesiologists	83	104	21	25.30	2	2	4	n/a	1
29-1062	Family and General Practitioners	86	104	18	20.93	2	2	4	79.79	1
29-1063	Internists, General	128	161	33	25.78	3	2	5	91.24	1
29-1064	Obstetricians and Gynecologists	*	*	*	*	*	*	*	83.05	1
29-1065	Pediatricians, General	*	*	*	*	*	*	*	93.66	1
29-1066	Psychiatrists	41	51	10	24.39	1	1	2	86.58	1
29-1067	Surgeons	87	110	23	26.44	2	2	4	102.22	1
29-1069	Physicians and Surgeons, All Other	109	133	24	22.02	2	2	4	81.85	1
29-1071	Physician Assistants	68	100	32	47.06	3	1	4	39.81	3
29-1081	Podiatrists	*	*	*	*	*	*	*	70.21	1
29-1111	Registered Nurses	2,944	3,710	766	26.02	77	51	128	28.19	6
29-1121	Audiologists	*	*	*	*	*	*	*	37.82	1
29-1122	Occupational Therapists	60	74	14	23.33	1	1	2	34.25	3
29-1123	Physical Therapists	173	232	59	34.10	6	2	8	36.73	3
29-1124	Radiation Therapists	*	*	*	*	*	*	*	31.12	6
29-1125	Recreational Therapists	*	*	*	*	*	*	*	19.08	5
29-1126	Respiratory Therapists	147	186	39	26.53	4	3	7	21.62	6
29-1127	Speech-Language Pathologists	152	179	27	17.76	3	3	6	28.90	3
29-1129	Therapists, All Other	34	36	2	5.88	0	1	1	34.79	5
29-1131	Veterinarians	88	118	30	34.09	3	2	5	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

Northern Kentucky Area Occupational Employment Outlook

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

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		
29-2000	Health Technologists and Technicians	3,426	4,149	723	21.10	72	80	152	n/a	n/a
29-2011	Medical and Clinical Laboratory Technologists	241	264	23	9.54	2	5	7	24.44	5
29-2012	Medical and Clinical Laboratory Technicians	178	214	36	20.22	4	3	7	17.14	6
29-2021	Dental Hygienists	138	183	45	32.61	5	3	8	27.01	6
29-2031	Cardiovascular Technologists and Technicians	114	144	30	26.32	3	2	5	20.12	6
29-2032	Diagnostic Medical Sonographers	30	34	4	13.33	0	0	0	27.13	6
29-2033	Nuclear Medicine Technologists	*	*	*	*	*	*	*	27.90	6
29-2034	Radiologic Technologists and Technicians	318	381	63	19.81	6	5	11	22.23	6
29-2041	Emergency Medical Technicians and Paramedics	224	250	26	11.61	3	5	8	13.62	7
29-2051	Dietetic Technicians	*	*	*	*	*	*	*	12.04	7
29-2052	Pharmacy Technicians	600	759	159	26.50	16	15	31	11.88	10
29-2053	Psychiatric Technicians	*	*	*	*	*	*	*	11.98	7
29-2054	Respiratory Therapy Technicians	59	61	2	3.39	0	2	2	19.94	7
29-2055	Surgical Technologists	86	107	21	24.42	2	2	4	17.08	7
29-2056	Veterinary Technologists and Technicians	181	246	65	35.91	7	5	12	12.82	6
29-2061	Licensed Practical & Licensed Voc. Nurses	804	962	158	19.65	16	25	41	17.53	7
29-2071	Medical Records & Health Info. Technicians	284	351	67	23.59	7	6	13	15.24	6
29-2081	Opticians, Dispensing	54	63	9	16.67	1	1	2	16.20	9
29-2091	Orthotists and Prosthetists	*	*	*	*	*	*	*	34.86	5
29-2099	Health Technologists and Technicians, All Other	59	68	9	15.25	1	1	2	21.04	7
29-9000	Other Healthcare Practitioners & Technical Occs.	97	102	5	5.15	1	3	4	n/a	n/a
29-9011	Occupational Health and Safety Specialists	32	32	0	0.00	0	1	1	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	57	60	3	5.26	0	2	2	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

Northern Kentucky Area Occupational Employment Outlook

Healthcare Support Occupations

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		
31-0000 Healthcare Support Occupations		4,479	5,581	1,102	24.60	112	51	163	12.33	n/a
31-1000	Nursing, Psychiatric, and Home Health Aides	2,569	3,245	676	26.31	68	26	94	n/a	n/a
31-1011	Home Health Aides	423	662	239	56.50	24	4	28	10.49	11
31-1012	Nursing Aides, Orderlies, and Attendants	2,115	2,551	436	20.61	44	21	65	10.79	7
31-1013	Psychiatric Aides	31	32	1	3.23	0	0	0	12.29	11
31-2000	Occupational & Physical Therapist Assis. & Aides	134	183	49	36.57	5	2	7	n/a	n/a
31-2011	Occupational Therapist Assistants	*	*	*	*	*	*	*	24.71	6
31-2012	Occupational Therapist Aides	*	*	*	*	*	*	*	14.60	11
31-2021	Physical Therapist Assistants	51	71	20	39.22	2	1	3	23.02	6
31-2022	Physical Therapist Aides	64	87	23	35.94	2	1	3	12.35	11
31-9000	Other Healthcare Support Occupations	1,776	2,153	377	21.23	40	23	63	n/a	n/a
31-9011	Massage Therapists	164	177	13	7.93	1	2	3	16.68	7
31-9091	Dental Assistants	382	510	128	33.51	13	7	20	15.38	10
31-9092	Medical Assistants	615	804	189	30.73	19	7	26	12.88	10
31-9093	Medical Equipment Preparers	*	*	*	*	*	*	*	13.02	11
31-9094	Medical Transcriptionists	171	185	14	8.19	1	2	3	13.99	7
31-9095	Pharmacy Aides	129	111	-18	-13.95	0	1	1	10.91	11
31-9096	Veterinary Assist. & Laboratory Animal Caretakers	*	*	*	*	*	*	*	10.09	11
31-9099	Healthcare Support Workers, All Other	254	296	42	16.54	4	3	7	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

Northern Kentucky Area Occupational Employment Outlook

Protective Service Occupations

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		
33-0000 Protective Service Occupations		3,159	3,596	437	13.83	44	93	137	15.46	n/a
33-1000	Managers, Protective Service Workers	330	367	37	11.21	4	15	19	n/a	n/a
33-1011	Managers of Correctional Officers	*	*	*	*	*	*	*	21.92	8
33-1012	Managers of Police and Detectives	132	146	14	10.61	1	6	7	28.68	8
33-1021	Managers of Fire Fighting and Prevention Workers	138	153	15	10.87	2	7	9	25.25	8
33-1099	Managers, Protective Service Workers, All Other	*	*	*	*	*	*	*	18.09	8
33-2000	Fire Fighting and Prevention Workers	784	963	179	22.83	18	24	42	n/a	n/a
33-2011	Fire Fighters	780	958	178	22.82	18	24	42	16.53	9
33-2021	Fire Inspectors and Investigators	*	*	*	*	*	*	*	20.22	8
33-2022	Forest Fire Inspectors and Prevention Specialists	*	*	*	*	*	*	*	n/a	8
33-3000	Law Enforcement Workers	1,280	1,420	140	10.94	14	31	45	n/a	n/a
33-3011	Bailiffs	140	156	16	11	2	3	5	10.75	10
33-3012	Correctional Officers and Jailers	197	220	23	11.68	2	4	6	14.19	10
33-3021	Detectives and Criminal Investigators	94	106	12	12.77	1	2	3	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	828	917	89	10.75	9	21	30	18.59	9
33-3052	Transit and Railroad Police	*	*	*	*	*	*	*	n/a	9
33-9000	Other Protective Service Workers	765	846	81	10.59	8	23	31	n/a	n/a
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	562	620	58	10.32	6	12	18	11.61	11
33-9091	Crossing Guards	36	40	4	11.11	0	1	1	11.80	11
33-9092	Lifeguards, Ski Patrol & Rec. Protective Workers	59	64	5	8.47	1	4	5	8.34	11
33-9099	Protective Service Workers, All Other	74	84	10	13.51	1	5	6	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

Northern Kentucky Area Occupational Employment Outlook

Food Preparation & Serving Related Occs.

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		
35-0000	Food Preparation and Serving Related Occupations	20,180	21,858	1,678	8.32	168	718	886	9.10	n/a
35-1000	Supervisors, Food Preparation & Serving Workers	1,950	2,057	107	5.49	11	19	30	n/a	n/a
35-1011	Chefs and Head Cooks	135	134	-1	-0.74	0	1	1	19.74	8
35-1012	Managers of Food Preparation & Serving Workers	1,815	1,923	108	5.95	11	17	28	13.37	8
35-2000	Cooks and Food Preparation Workers	4,582	4,901	319	6.96	32	129	161	n/a	n/a
35-2011	Cooks, Fast Food	621	664	43	6.92	4	16	20	7.95	11
35-2012	Cooks, Institution and Cafeteria	1,005	1,071	66	6.57	7	26	33	10.69	10
35-2013	Cooks, Private Household	*	*	*	*	*	*	*	n/a	9
35-2014	Cooks, Restaurant	1,645	1,754	109	6.63	11	42	53	9.59	9
35-2015	Cooks, Short Order	143	140	-3	-2.10	0	4	4	8.01	11
35-2019	Cooks, All Other	*	*	*	*	*	*	*	10.50	10
35-2021	Food Preparation Workers	1,140	1,240	100	8.77	10	41	51	9.51	11
35-3000	Food and Beverage Serving Workers	11,554	12,659	1,105	9.56	111	464	575	n/a	n/a
35-3011	Bartenders	1,377	1,545	168	12.20	17	49	66	8.81	11
35-3021	Combined Food Preparation & Service Workers	4,761	5,401	640	13.44	64	101	165	7.97	11
35-3022	Counter Attendants, Cafeteria & Food Concession	952	1,021	69	7.25	7	70	77	8.32	11
35-3031	Waiters and Waitresses	4,401	4,622	221	5.02	22	243	265	8.41	11
35-3041	Food Servers, Nonrestaurant	63	70	7	11.11	1	1	2	9.65	11
35-9000	Other Food Preparation and Serving Related Workers	2,094	2,241	147	7.02	15	106	121	n/a	n/a
35-9011	Dining Room, Cafeteria Attend. & Bartender Help.	666	701	35	5.26	4	29	33	8.02	11
35-9021	Dishwashers	758	829	71	9.37	7	31	38	8.46	11
35-9031	Hosts & Hostesses, Restaurant & Lounge	*	*	*	*	*	*	*	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

Northern Kentucky Area Occupational Employment Outlook

Building, Grounds Cleaning & Maintenance Occs.

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		
37-0000 Building & Grounds Cleaning & Maintenance Occs.		5,812	6,184	372	6.40	37	95	132	10.66	n/a
37-1000 Supervisors, Bldg. & Grounds Cleaning Workers		742	806	64	8.63	6	8	14	n/a	n/a
37-1011	Managers of Housekeeping & Janitorial Workers	444	468	24	5.41	2	5	7	14.73	8
37-1012	Managers of Landscaping, Lawn & Grounds. Work.	298	338	40	13.42	4	3	7	17.19	8
37-2000 Building Cleaning and Pest Control Workers		3,883	3,998	115	2.96	12	73	85	n/a	n/a
37-2011	Janitors & Cleaners, Excl. Maids & Housekeeping	2,576	2,682	106	4.11	11	49	60	10.34	11
37-2012	Maids and Housekeeping Cleaners	1,271	1,275	4	0.31	0	23	23	8.97	11
37-2019	Building Cleaning Workers, All Other	*	*	*	*	*	*	*	10.79	11
37-2021	Pest Control Workers	36	41	5	13.89	1	1	2	13.02	10
37-3000 Grounds Maintenance Workers		1,187	1,380	193	16.26	19	14	33	n/a	n/a
37-3011	Landscaping and Groundskeeping Workers	1,182	1,374	192	16.24	19	14	33	10.88	11
37-3012	Pesticide Handlers, Sprayers & Applicators, Veg.	*	*	*	*	*	*	*	12.76	10
37-3013	Tree Trimmers and Pruners	*	*	*	*	*	*	*	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

Northern Kentucky Area Occupational Employment Outlook

Personal Care & Service Occupations

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		
39-0000	Personal Care and Service Occupations	7,227	8,041	814	11.26	98	181	279	10.92	n/a
39-1000	Supervisors, Personal Care and Service Workers	480	562	82	17.08	8	13	21	n/a	n/a
39-1011	Gaming Supervisors	*	*	*	*	*	*	*	18.79	8
39-1012	Slot Key Persons	*	*	*	*	*	*	*	n/a	7
39-1021	Managers of Personal Service Workers	480	562	82	17.08	8	13	21	13.77	8
39-2000	Animal Care and Service Workers	*	*	*	*	*	*	*	n/a	n/a
39-2011	Animal Trainers	*	*	*	*	*	*	*	16.75	10
39-2021	Nonfarm Animal Caretakers	*	*	*	*	*	*	*	9.89	11
39-3000	Entertainment Attendants and Related Workers	458	512	54	12	5	25	30	n/a	n/a
39-3011	Gaming Dealers	*	*	*	*	*	*	*	9.33	7
39-3012	Gaming and Sports Book Writers and Runners	33	35	2	6	0	1	1	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	134	140	6	4	1	9	10	8.53	11
39-3091	Amusement and Recreation Attendants	189	210	21	11	2	10	12	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	100	125	25	25.00	3	5	8	9.27	10
39-4000	Funeral Service Workers	*	*	*	*	*	*	*	n/a	n/a
39-4011	Embalmers	*	*	*	*	*	*	*	16.67	7
39-4021	Funeral Attendants	*	*	*	*	*	*	*	9.54	11
39-5000	Personal Appearance Workers	1,285	1,493	208	16.19	21	19	40	n/a	n/a
39-5011	Barbers	*	*	*	*	*	*	*	12.76	7
39-5012	Hairdressers, Hairstylists, and Cosmetologists	1,245	1,452	207	17	21	18	39	11.55	7
39-5092	Manicurists and Pedicurists	40	41	1	3	0	1	1	9.72	7
39-5093	Shampooers	*	*	*	*	*	*	*	n/a	11
39-5094	Skin Care Specialists	*	*	*	*	*	*	*	14.49	7
39-6000	Transportation, Tourism, and Lodging Attendants	1,632	1,477	-155	-9	1	37	38	n/a	n/a
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

Northern Kentucky Area Occupational Employment Outlook

Personal Care & Service Occs. (cont'd)

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~
39-9000	Other Personal Care and Service Workers	3,055	3,624	569	18.63	57	79	136	n/a	n/a
39-9011	Child Care Workers	1,885	2,107	222	11.78	22	55	77	8.97	11
39-9021	Personal and Home Care Aides	274	416	142	51.82	14	3	17	8.56	11
39-9031	Fitness Trainers and Aerobics Instructors	430	566	136	31.63	14	8	22	13.60	7
39-9032	Recreation Workers	185	228	43	23.24	4	3	7	11.99	11
39-9041	Residential Advisors	212	238	26	12.26	3	8	11	10.40	11
39-9099	Personal Care and Service Workers, All Other	69	69	0	0.00	0	2	2	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

Northern Kentucky Area Occupational Employment Outlook

Sales & Related Occupations

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		
41-0000	Sales and Related Occupations	21,808	23,243	1,435	6.58	147	637	784	15.16	n/a
41-1000	Supervisors, Sales Workers	3,215	3,360	145	4.51	15	69	84	n/a	n/a
41-1011	Managers of Retail Sales Workers	2,483	2,589	106	4.27	11	53	64	16.26	8
41-1012	Managers of Non-Retail Sales Workers	732	771	39	5.33	4	15	19	28.15	8
41-2000	Retail Sales Workers	11,952	12,675	723	6.05	72	415	487	n/a	n/a
41-2011	Cashiers	4,730	4,915	185	3.91	19	212	231	8.37	11
41-2012	Gaming Change Persons and Booth Cashiers	*	*	*	*	*	*	*	n/a	11
41-2021	Counter and Rental Clerks	480	491	11	2.29	1	13	14	9.98	11
41-2022	Parts Salespersons	202	209	7	3.47	1	7	8	12.54	10
41-2031	Retail Salespersons	6,540	7,060	520	7.95	52	182	234	10.74	11
41-3000	Sales Representatives, Services	2,012	2,173	161	8.00	16	50	66	n/a	n/a
41-3011	Advertising Sales Agents	142	160	18	12.68	2	3	5	18.29	10
41-3021	Insurance Sales Agents	502	538	36	7.17	4	12	16	28.82	7
41-3031	Securities, Commodities & Financial Serv. Sales	361	387	26	7.20	3	11	14	36.88	5
41-3041	Travel Agents	41	39	-2	-4.88	0	0	0	13.02	7
41-3099	Sales Representatives, Services, All Other	966	1,049	83	8.59	8	24	32	25.53	8
41-4000	Sales Reps., Wholesale and Manufacturing	3,500	3,859	359	10.26	36	81	117	n/a	n/a
41-4011	Sales Reps., Wholesale & Manuf., Tech. & Sci.	536	606	70	13.06	7	12	19	38.83	8
41-4012	Sales Reps., Wholesale & Manuf., Excl. Tech. & Sci.	2,964	3,253	289	9.75	29	69	98	28.04	8
41-9000	Other Sales and Related Workers	1,129	1,176	47	4.16	8	23	31	n/a	n/a
41-9011	Demonstrators and Product Promoters	113	117	4	3.54	0	3	3	11.21	10
41-9012	Models	*	*	*	*	*	*	*	n/a	10
41-9021	Real Estate Brokers	*	*	*	*	*	*	*	16.62	8
41-9022	Real Estate Sales Agents	618	679	61	9.87	6	10	16	14.99	7
41-9031	Sales Engineers	71	71	0	0.00	0	3	3	33.18	5
41-9041	Telemarketers	45	36	-9	-20.00	0	1	1	11.76	11
41-9091	Door-To-Door Sales, News, Street Vend. & Related	80	55	-25	-31.25	0	2	2	12.29	11
41-9099	Sales and Related Workers, All Other	190	206	16	8.42	2	4	6	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

Northern Kentucky Area Occupational Employment Outlook

Office & Administrative Support Occs.

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		
43-0000	Office and Administrative Support Occupations	38,307	40,603	2,296	5.99	321	871	1,192	14.32	n/a
43-1000	Supervisors, Office & Admin. Support Workers	2,494	2,717	223	8.94	22	56	78	n/a	n/a
43-1011	Managers of Office & Admin. Support Workers	2,494	2,717	223	8.94	22	56	78	20.27	8
43-2000	Communications Equipment Operators	101	84	-17	-16.83	0	2	2	n/a	n/a
43-2011	Switchboard Operators, Incl. Answering Service	101	84	-17	-16.83	0	2	2	11.97	11
43-2021	Telephone Operators	*	*	*	*	*	*	*	14.15	11
43-2099	Communications Equipment Operators, All Other	*	*	*	*	*	*	*	17.49	11
43-3000	Financial Clerks	5,669	6,237	568	10.02	59	100	159	n/a	n/a
43-3011	Bill and Account Collectors	444	536	92	20.72	9	8	17	13.20	11
43-3021	Billing and Posting Clerks and Machine Operators	990	1,162	172	17.37	17	16	33	14.62	11
43-3031	Bookkeeping, Accounting, and Auditing Clerks	3,234	3,489	255	7.89	26	39	65	14.98	10
43-3041	Gaming Cage Workers	*	*	*	*	*	*	*	n/a	11
43-3051	Payroll and Timekeeping Clerks	231	205	-26	-11.26	0	6	6	15.76	10
43-3061	Procurement Clerks	97	102	5	5.15	1	3	4	17.59	10
43-3071	Tellers	673	743	70	10.40	7	28	35	10.66	11
43-4000	Information and Record Clerks	14,106	15,017	911	6.46	138	404	542	n/a	n/a
43-4011	Brokerage Clerks	30	30	0	0.00	0	1	1	19.06	10
43-4021	Correspondence Clerks	*	*	*	*	*	*	*	16.71	11
43-4031	Court, Municipal, and License Clerks	377	401	24	6.37	2	11	13	14.82	11
43-4041	Credit Authorizers, Checkers, and Clerks	89	84	-5	-5.62	0	3	3	16.06	11
43-4051	Customer Service Representatives	5,855	6,679	824	14.07	82	184	266	13.99	10
43-4061	Eligibility Interviewers, Government Programs	741	815	74	9.99	7	17	24	20.62	10
43-4071	File Clerks	106	80	-26	-24.53	0	3	3	11.04	11
43-4081	Hotel, Motel, and Resort Desk Clerks	362	404	42	11.60	4	12	16	8.50	11
43-4111	Interviewers, Excl. Eligibility and Loan	1,167	1,301	134	11.48	13	28	41	12.09	11
43-4121	Library Assistants, Clerical	207	236	29	14.01	3	9	12	10.62	11
43-4131	Loan Interviewers and Clerks	145	157	12	8.28	1	4	5	13.97	11
43-4141	New Accounts Clerks	*	*	*	*	*	*	*	13.34	8
43-4151	Order Clerks	787	592	-195	-24.78	0	22	22	13.43	11
43-4161	H.R. Assistants, Excl. Payroll & Timekeeping	147	138	-9	-6.12	0	4	4	17.39	11
43-4171	Receptionists and Information Clerks	1,790	2,031	241	13.46	24	48	72	11.03	11
43-4181	Reservation, Transp. Ticket Agents & Travel Clerks	1,121	995	-126	-11.24	0	25	25	n/a	11
43-4199	Information and Record Clerks, All Other	1,121	1,011	-110	-9.81	0	32	32	16.37	11

* Employment under 30 and unreliable data suppressed

n/a - Not Available

~ Education/Training Required Codes- Page 49

Northern Kentucky Area Occupational Employment Outlook

Office & Administrative Support Occs. (cont'd)

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		
43-5000	Material Recording, Dispatching & Distributing Work.	7,680	8,042	362	4.71	49	184	233	n/a	n/a
43-5011	Cargo and Freight Agents	111	117	6	5.41	1	3	4	17.57	10
43-5021	Couriers and Messengers	48	50	2	4.17	0	1	1	10.61	11
43-5031	Police, Fire, and Ambulance Dispatchers	85	101	16	18.82	2	2	4	13.74	10
43-5032	Dispatchers, Except Police, Fire, and Ambulance	417	397	-20	-4.80	0	9	9	16.38	10
43-5041	Meter Readers, Utilities	106	86	-20	-18.87	0	3	3	13.89	11
43-5051	Postal Service Clerks	63	52	-11	-17.46	0	1	1	24.90	11
43-5052	Postal Service Mail Carriers	470	471	1	0.21	0	15	15	23.03	11
43-5053	Postal Service Mail Sorters, Processors	47	34	-13	-27.66	0	0	0	21.02	11
43-5061	Production, Planning, and Expediting Clerks	367	378	11	3.00	1	9	10	19.84	10
43-5071	Shipping, Receiving, and Traffic Clerks	1,662	1,608	-54	-3.25	0	41	41	14.74	11
43-5081	Stock Clerks and Order Fillers	4,186	4,642	456	10.89	46	96	142	11.52	11
43-5111	Weigher, Measurer, Checker & Sampler, Records	118	106	-12	-10.17	0	4	4	13.39	11
43-6000	Secretaries and Administrative Assistants	4,666	5,026	360	7.72	36	63	99	n/a	n/a
43-6011	Executive Secretaries & Admin. Assistants	2,238	2,468	230	10.28	23	30	53	16.90	8
43-6012	Legal Secretaries	224	247	23	10.27	2	3	5	15.55	6
43-6013	Medical Secretaries	407	495	88	21.62	9	6	15	13.01	10
43-6014	Secretaries, Excl. Legal, Medical, and Executive	1,797	1,816	19	1.06	2	24	26	12.48	10
43-9000	Other Office and Administrative Support Workers	3,591	3,480	-111	-3.09	16	62	78	n/a	n/a
43-9011	Computer Operators	*	*	*	*	*	*	*	17.06	10
43-9021	Data Entry Keyers	657	574	-83	-12.63	0	14	14	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	74	71	-3	-4.05	0	1	1	15.52	10
43-9051	Mail Clerks & Mail Machine Operators, Excl. Postal	342	308	-34	-9.94	0	6	6	12.72	11
43-9061	Office Clerks, General	1,778	1,940	162	9.11	16	24	40	12.44	11
43-9071	Office Machine Operators, Excl. Computer	107	94	-13	-12.15	0	4	4	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	500	394	-106	-21.20	0	12	12	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

Northern Kentucky Area Occupational Employment Outlook

Farming, Fishing & Forestry Occupations

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		
45-0000	Farming, Fishing, and Forestry Occupations	707	643	-64	-9.05	0	19	19	12.65	n/a
45-1000	Supervisors, Farming, Fishing & Forestry Workers	*	*	*	*	*	*	*	n/a	n/a
45-1011	Managers of Farming, Fishing & Forestry Workers	*	*	*	*	*	*	*	19.73	8
45-1012	Farm Labor Contractors	*	*	*	*	*	*	*	n/a	8
45-2000	Agricultural Workers	668	605	-63	-9.43	0	18	18	n/a	n/a
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	47	42	-5	-10.64	0	1	1	13.81	11
45-2092	Farmworkers & Laborers, Crop, Nursery	522	473	-49	-9.39	0	14	14	10.13	11
45-2093	Farmworkers, Farm and Ranch Animals	70	63	-7	-10.00	0	2	2	10.53	11
45-2099	Agricultural Workers, All Other	*	*	*	*	*	*	*	10.90	11
45-3000	Fishing and Hunting Workers	*	*	*	*	*	*	*	n/a	n/a
45-3011	Fishers and Related Fishing Workers	*	*	*	*	*	*	*	n/a	11
45-4000	Forest, Conservation, and Logging Workers	*	*	*	*	*	*	*	n/a	n/a
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

Northern Kentucky Area Occupational Employment Outlook

Construction & Extraction Occupations

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		
47-0000 Construction and Extraction Occupations		7,432	7,909	477	6.42	53	125	178	18.74	n/a
47-1000 Supervisors, Construction and Extraction Workers		709	777	68	9.59	7	14	21	n/a	n/a
47-1011	Managers of Constr. Trades & Extraction Workers	709	777	68	9.59	7	14	21	26.19	8
47-2000 Construction Trades Workers		5,900	6,235	335	5.68	38	93	131	n/a	n/a
47-2011	Boilermakers	*	*	*	*	*	*	*	23.63	9
47-2021	Brickmasons and Blockmasons	119	124	5	4.20	1	3	4	19.96	9
47-2022	Stonemasons	*	*	*	*	*	*	*	15.97	9
47-2031	Carpenters	1,153	1,216	63	5.46	6	14	20	17.16	9
47-2041	Carpet Installers	107	99	-8	-7.48	0	3	3	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	*	*	*	*	*	*	*	15.71	9
47-2051	Cement Masons and Concrete Finishers	240	252	12	5.00	1	6	7	15.58	10
47-2053	Terrazzo Workers and Finishers	*	*	*	*	*	*	*	n/a	9
47-2061	Construction Laborers	1,126	1,282	156	13.85	16	8	24	14.56	10
47-2071	Paving, Surfacing & Tamping Equip. Operators	121	131	10	8.26	1	2	3	16.78	10
47-2072	Pile-Driver Operators	*	*	*	*	*	*	*	n/a	10
47-2073	Operating Engineers & Other Constr. Equip. Ops.	621	668	47	7.57	5	11	16	18.95	10
47-2081	Drywall and Ceiling Tile Installers	271	281	10	3.69	1	3	4	16.76	10
47-2082	Tapers	83	87	4	4.82	0	1	1	17.60	10
47-2111	Electricians	772	795	23	2.98	2	19	21	20.63	9
47-2121	Glaziers	39	40	1	2.56	0	1	1	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	326	325	-1	-0.31	0	6	6	14.96	10
47-2142	Paperhangers	78	59	-19	-24.36	0	0	0	n/a	10
47-2151	Pipelayers	64	74	10	15.63	1	1	2	19.03	11
47-2152	Plumbers, Pipefitters, and Steamfitters	331	354	23	6.95	2	7	9	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	123	117	-6	-4.88	0	2	2	16.17	10
47-2211	Sheet Metal Workers	70	64	-6	-8.57	0	2	2	19.87	9
47-2221	Structural Iron and Steel Workers	117	121	4	3.42	0	2	2	22.46	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

Northern Kentucky Area Occupational Employment Outlook

Construction & Extraction Occs. (cont'd)

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		
47-3000	Helpers, Construction Trades	238	264	26	10.92	3	5	8	n/a	n/a
47-3011	Helpers--Brick, Block, Stone, Tile & Marble Setters	*	*	*	*	*	*	*	15.91	11
47-3012	Helpers--Carpenters	*	*	*	*	*	*	*	12.46	11
47-3013	Helpers--Electricians	128	147	19	14.84	2	3	5	11.61	11
47-3014	Helpers--Painter, Paperhanger, Plasterer & Stucco	*	*	*	*	*	*	*	10.90	11
47-3015	Helpers--Pipelayer & fitter, Plumber & Steamfitter	63	74	11	17.46	1	1	2	11.99	11
47-3016	Helpers--Roofers	*	*	*	*	*	*	*	12.55	11
47-3019	Helpers, Construction Trades, All Other	*	*	*	*	*	*	*	12.34	11
47-4000	Other Construction and Related Workers	535	589	54	10.09	5	12	17	n/a	n/a
47-4011	Construction and Building Inspectors	127	143	16	12.60	2	3	5	22.56	8
47-4021	Elevator Installers and Repairers	*	*	*	*	*	*	*	30.86	9
47-4031	Fence Erectors	86	91	5	5.81	1	1	2	9.70	10
47-4041	Hazardous Materials Removal Workers	*	*	*	*	*	*	*	15.61	10
47-4051	Highway Maintenance Workers	276	300	24	8.70	2	8	10	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
47-5000	Extraction Workers	50	44	-6	-12.00	0	1	1	n/a	n/a
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

Northern Kentucky Area Occupational Employment Outlook

Installation, Maintenance & Repair Occs.

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		
49-0000 Installation, Maintenance, and Repair Occupations		8,731	9,306	575	6.59	66	165	231	19.24	n/a
49-1000 Supervisors of Installation, Maint. & Repair Workers		731	763	32	4.38	3	19	22	n/a	n/a
49-1011	Managers of Mechanics, Installers, and Repairers	731	763	32	4.38	3	19	22	25.60	8
49-2000 Electrical & Electronic Equip. Mechanics & Installers		788	822	34	4.31	4	14	18	n/a	n/a
49-2011	Computer, Automated Teller & Office Mach. Repair	361	391	30	8.31	3	6	9	18.42	7
49-2021	Radio Mechanics	*	*	*	*	*	*	*	22.85	7
49-2022	Telecommunications Equip. Installers & Repairers	123	121	-2	-1.63	0	2	2	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.	90	92	2	2.22	0	2	2	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	133	135	2	1.50	0	2	2	15.70	7
49-2098	Security and Fire Alarm Systems Installers	*	*	*	*	*	*	*	20.58	7
49-3000 Vehicle and Mobile Equip. Mechanics, Installers		2,468	2,523	55	2.23	12	50	62	n/a	n/a
49-3011	Aircraft Mechanics and Service Technicians	309	253	-56	-18.12	0	6	6	33.51	7
49-3021	Automotive Body and Related Repairers	172	163	-9	-5.23	0	4	4	19.03	9
49-3022	Automotive Glass Installers and Repairers	53	54	1	1.89	0	1	1	15.46	9
49-3023	Automotive Service Technicians and Mechanics	1,054	1,114	60	5.69	6	20	26	14.97	7
49-3031	Bus & Truck Mechanics & Diesel Eng. Specialists	372	396	24	6.45	2	9	11	17.87	7
49-3041	Farm Equipment Mechanics	*	*	*	*	*	*	*	13.34	9
49-3042	Mobile Heavy Equip. Mechanics, Excl. Engines	211	236	25	11.85	3	4	7	19.80	9
49-3043	Rail Car Repairers	87	85	-2	-2.30	0	2	2	20.70	9
49-3051	Motorboat Mechanics	38	42	4	10.53	0	1	1	12.82	9
49-3052	Motorcycle Mechanics	*	*	*	*	*	*	*	15.94	9
49-3053	Outdoor Power Equip. & Other Small Eng. Mech.	64	63	-1	-1.56	0	1	1	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	75	77	2	2.67	0	2	2	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

Northern Kentucky Area Occupational Employment Outlook

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

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		
49-9000	Other Installation, Maintenance & Repair Occs.	4,744	5,198	454	9.57	47	82	129	n/a	n/a
49-9011	Mechanical Door Repairers	*	*	*	*	*	*	*	14.47	10
49-9012	Control & Valve Install. & Repair., Excl. Mech. Door	58	59	1	1.72	0	1	1	17.09	10
49-9021	Heating, A.C. & Refrigeration Mech. & Installers	558	717	159	28.49	16	9	25	18.04	7
49-9031	Home Appliance Repairers	31	32	1	3.23	0	1	1	16.69	9
49-9041	Industrial Machinery Mechanics	631	685	54	8.56	5	9	14	22.27	9
49-9042	Maintenance and Repair Workers, General	2,228	2,387	159	7.14	16	34	50	16.27	10
49-9043	Maintenance Workers, Machinery	71	71	0	0.00	0	1	1	18.13	10
49-9044	Millwrights	*	*	*	*	*	*	*	25.73	9
49-9045	Refractory Materials Repairers, Excl. Brickmasons	*	*	*	*	*	*	*	n/a	10
49-9051	Electrical Power-Line Installers and Repairers	211	213	2	0.95	0	8	8	23.94	9
49-9052	Telecommunications Line Installers and Repairers	155	149	-6	-3.87	0	2	2	22.26	9
49-9061	Camera and Photographic Equipment Repairers	*	*	*	*	*	*	*	14.91	9
49-9062	Medical Equipment Repairers	63	91	28	44.44	3	2	5	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	*	*	*	*	*	*	*	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	*	*	*	*	*	*	*	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	88	97	9	10	1	4	5	13.55	11
49-9099	Installation, Maint. & Repair Workers, All Other	491	531	40	8.15	4	8	12	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

Northern Kentucky Area Occupational Employment Outlook

Production Occupations

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		
51-0000 Production Occupations		18,561	18,453	-108	-0.58	72	360	432	15.80	n/a
51-1000	Supervisors, Production Workers	1,265	1,188	-77	-6.09	0	17	17	n/a	n/a
51-1011	Managers of Production and Operating Workers	1,265	1,188	-77	-6.09	0	17	17	24.26	8
51-2000	Assemblers and Fabricators	3,372	3,445	73	2.16	11	73	84	n/a	n/a
51-2011	Aircraft Structure, Surface, Rig & Systems Assemb.	*	*	*	*	*	*	*	27.06	10
51-2021	Coil Winders, Tapers, and Finishers	95	80	-15	-15.79	0	2	2	13.90	11
51-2022	Electrical and Electronic Equipment Assemblers	226	211	-15	-6.64	0	4	4	14.94	11
51-2023	Electromechanical Equipment Assemblers	68	60	-8	-11.77	0	1	1	16.83	11
51-2031	Engine and Other Machine Assemblers	*	*	*	*	*	*	*	18.72	11
51-2041	Structural Metal Fabricators and Fitters	258	287	29	11.24	3	5	8	15.87	10
51-2091	Fiberglass Laminators and Fabricators	37	37	0	0.00	0	1	1	12.55	10
51-2092	Team Assemblers	2,021	2,069	48	2.38	5	46	51	14.86	10
51-2093	Timing Device Assemblers, Adjusters & Calibrators	*	*	*	*	*	*	*	n/a	10
51-2099	Assemblers and Fabricators, All Other	661	696	35	5.30	4	15	19	17.41	10
51-3000	Food Processing Workers	813	880	67	8.24	7	22	29	n/a	n/a
51-3011	Bakers	114	123	9	7.89	1	3	4	12.23	9
51-3021	Butchers and Meat Cutters	162	165	3	1.85	0	5	5	14.27	9
51-3022	Meat, Poultry, and Fish Cutters and Trimmers	50	58	8	16.00	1	2	3	11.07	11
51-3023	Slaughterers and Meat Packers	*	*	*	*	*	*	*	11.28	10
51-3091	Food & Tobacco Roast., Baking, Drying Mach. Ops.	148	154	6	4.05	1	4	5	11.33	11
51-3092	Food Batchmakers	312	354	42	13.46	4	8	12	15.06	11
51-3093	Food Cooking Machine Operators and Tenders	*	*	*	*	*	*	*	10.41	11
51-4000	Metal Workers and Plastic Workers	4,244	3,900	-344	-8.11	3	85	88	n/a	n/a
51-4011	Computer-Controlled Machine Tool Operators	329	357	28	8.51	3	6	9	16.01	10
51-4012	Numerical Tool and Process Control Programmers	*	*	*	*	*	*	*	21.33	8
51-4021	Extruding & Drawing Mach. Setters, Ops. & Tenders	160	139	-21	-13.13	0	3	3	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

Northern Kentucky Area Occupational Employment Outlook

Production Occupations (cont'd)

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		
51-4031	Cut, Punch & Press Mach. Setters, Ops. & Tenders	584	528	-56	-9.59	0	12	12	14.29	10
51-4032	Drill & Boring Mach. Tool Setters, Ops. & Tenders	215	155	-60	-27.91	0	2	2	15.66	10
51-4033	Grind, Lap, Polish & Buff Mach. Tool Setters, Ops.	108	87	-21	-19.44	0	2	2	15.46	10
51-4034	Lathe & Turning Mach. Tool Setters, Ops. & Tenders	78	58	-20	-25.64	0	1	1	15.37	10
51-4035	Milling & Planing Machine Setters, Ops. & Tenders	*	*	*	*	*	*	*	15.22	10
51-4041	Machinists	1,007	970	-37	-3.67	0	13	13	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.	110	89	-21	-19.09	0	2	2	13.95	10
51-4081	Multiple Mach. Tool Setters, Ops. & Tenders	206	170	-36	-17.48	0	4	4	14.47	10
51-4111	Tool and Die Makers	131	123	-8	-6.11	0	1	1	21.85	9
51-4121	Welders, Cutters, Solderers, and Brazers	671	653	-18	-2.68	0	21	21	16.11	7
51-4122	Welding, Soldering & Brazing Mach. Setters, Ops.	155	147	-8	-5.16	0	5	5	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	138	124	-14	-10.15	0	4	4	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
51-5000	Printing Workers	1,043	921	-122	-11.70	0	17	17	n/a	n/a
51-5011	Bindery Workers	305	247	-58	-19.02	0	5	5	15.53	11
51-5012	Bookbinders	77	67	-10	-12.99	0	1	1	15.67	10
51-5021	Job Printers	87	77	-10	-11.49	0	0	0	16.23	9
51-5022	Prepress Technicians and Workers	118	99	-19	-16.10	0	2	2	16.66	7
51-5023	Printing Machine Operators	456	431	-25	-5.48	0	10	10	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

Northern Kentucky Area Occupational Employment Outlook

Production Occupations (cont'd)

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		
51-6000	Textile, Apparel, and Furnishings Workers	985	910	-75	-7.61	3	14	17	n/a	n/a
51-6011	Laundry and Dry-Cleaning Workers	528	553	25	4.73	3	9	12	9.67	10
51-6021	Pressers, Textile, Garment, and Related Materials	*	*	*	*	*	*	*	9.24	11
51-6031	Sewing Machine Operators	203	163	-40	-19.70	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	47	49	2	4.26	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
51-7000	Woodworkers	156	155	-1	-0.64	1	3	4	n/a	n/a
51-7011	Cabinetmakers and Bench Carpenters	51	55	4	7.84	0	1	1	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	35	32	-3	-8.57	0	1	1	11.82	10
51-7042	Woodworking Machine Setters, Ops. & Tenders	69	66	-3	-4.35	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

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

Northern Kentucky Area Occupational Employment Outlook

Production Occupations (cont'd)

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		
51-8000	Plant and System Operators	340	340	0	0.00	3	8	11	n/a	n/a
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.	108	131	23	21.30	2	2	4	15.71	9
51-8091	Chemical Plant and System Operators	158	130	-28	-17.72	0	4	4	24.73	9
51-8092	Gas Plant Operators	*	*	*	*	*	*	*	26.28	9
51-8093	Petroleum Pump System Ops., Refinery Ops.	*	*	*	*	*	*	*	27.02	9
51-8099	Plant and System Operators, All Other	*	*	*	*	*	*	*	22.82	9
51-9000	Other Production Occupations	6,343	6,714	371	5.85	45	121	166	n/a	n/a
51-9011	Chemical Equipment Operators and Tenders	38	31	-7	-18.42	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	80	79	-1	-1.25	0	1	1	13.72	10
51-9022	Grinding and Polishing Workers, Hand	*	*	*	*	*	*	*	13.57	10
51-9023	Mixing & Blending Mach. Setters, Ops. & Tenders	561	653	92	16.40	9	10	19	14.15	10
51-9031	Cutters and Trimmers, Hand	*	*	*	*	*	*	*	14.86	11
51-9032	Cutting & Slicing Mach. Setters, Ops. & Tenders	114	115	1	0.88	0	2	2	13.68	10
51-9041	Extrude, Form, Press & Compact Mach. Ops.	247	260	13	5.26	1	5	6	14.92	10
51-9051	Furnace, Kiln, Oven, Drier & Kettle Ops. & Tenders	*	*	*	*	*	*	*	16.71	10
51-9061	Inspectors, Testers, Sorters, Samplers & Weighers	1,078	1,068	-10	-0.93	0	18	18	16.17	10
51-9071	Jewelers and Precious Stone and Metal Workers	56	47	-9	-16.07	0	1	1	16.20	7
51-9081	Dental Laboratory Technicians	52	55	3	5.77	0	1	1	18.34	10
51-9082	Medical Appliance Technicians	*	*	*	*	*	*	*	16.34	9
51-9083	Ophthalmic Laboratory Technicians	34	37	3	8.82	0	1	1	14.00	10
51-9111	Packaging & Filling Machine Ops. & Tenders	895	925	30	3.35	3	15	18	14.54	11
51-9121	Coating, Painting & Spraying Mach. Setters, Ops.	153	157	4	2.61	0	4	4	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	48	47	-1	-2.08	0	1	1	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

Northern Kentucky Area Occupational Employment Outlook

Production Occupations (cont'd)

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	43	42	-1	-2.33	0	1	1	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	47	50	3	6.38	0	2	2	13.11	10
51-9196	Paper Goods Machine Setters, Ops. & Tenders	445	406	-39	-8.76	0	9	9	15.54	10
51-9197	Tire Builders	*	*	*	*	*	*	*	13.11	10
51-9198	Helpers--Production Workers	1,417	1,561	144	10.16	14	25	39	12.42	11
51-9199	Production Workers, All Other	758	897	139	18.34	14	18	32	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

Northern Kentucky Area Occupational Employment Outlook

Transportation & Material Moving Occs.

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		
53-0000 Transportation and Material Moving Occupations		18,591	19,305	714	3.84	110	455	565	16.14	n/a
53-1000	Supervisors, Transp. & Material Moving Workers	1,024	1,011	-13	-1.27	2	18	20	n/a	n/a
53-1011	Aircraft Cargo Handling Supervisors	*	*	*	*	*	*	*	19.04	8
53-1021	Mgrs. of Helpers, Laborers & Material Movers, Hand	374	396	22	5.88	2	7	9	21.05	8
53-1031	Mgrs. of Transp., Material-Moving & Vehicle Ops.	650	615	-35	-5.38	0	11	11	23.22	8
53-2000	Air Transportation Workers	1,642	1,503	-139	-8.47	1	56	57	n/a	n/a
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
53-3000	Motor Vehicle Operators	7,087	7,801	714	10.07	71	126	197	n/a	n/a
53-3011	Ambulance Drivers & Attend., Excl. EMTs	125	143	18	14	2	2	4	10.78	10
53-3021	Bus Drivers, Transit and Intercity	227	253	26	11.45	3	4	7	13.13	10
53-3022	Bus Drivers, School	786	809	23	2.93	2	14	16	14.77	10
53-3031	Driver/Sales Workers	869	894	25	2.88	3	16	19	11.99	11
53-3032	Truck Drivers, Heavy and Tractor-Trailer	2,782	3,144	362	13.01	36	50	86	18.02	11
53-3033	Truck Drivers, Light or Delivery Services	1,488	1,642	154	10.35	15	27	42	13.74	11
53-3041	Taxi Drivers and Chauffeurs	658	748	90	13.68	9	12	21	8.95	11
53-3099	Motor Vehicle Operators, All Other	152	168	16	10.53	2	3	5	16.01	11
53-4000	Rail Transportation Workers	261	281	20	8	2	9	11	n/a	n/a
53-4011	Locomotive Engineers	*	*	*	*	*	*	*	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	55	60	5	9	1	2	3	21.04	10
53-4031	Railroad Conductors and Yardmasters	93	99	6	6	1	3	4	21.99	10
53-4099	Rail Transportation Workers, All Other	*	*	*	*	*	*	*	19.23	10
53-5000	Water Transportation Workers	336	393	57	16.96	6	14	20	n/a	n/a
53-5011	Sailors and Marine Oilers	*	*	*	*	*	*	*	14.69	11
53-5021	Captains, Mates, and Pilots of Water Vessels	112	135	23	20.54	2	5	7	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

Northern Kentucky Area Occupational Employment Outlook

Transportation & Material Moving Occs. (cont'd)

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		
53-6000	Other Transportation Workers	360	374	14	3.89	2	14	16	n/a	n/a
53-6011	Bridge and Lock Tenders	*	*	*	*	*	*	*	n/a	11
53-6021	Parking Lot Attendants	155	165	10	6.45	1	6	7	10.31	11
53-6031	Service Station Attendants	149	145	-4	-2.68	0	6	6	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
53-7000	Material Moving Workers	7,881	7,942	61	0.77	26	218	244	n/a	n/a
53-7011	Conveyor Operators and Tenders	*	*	*	*	*	*	*	15.57	11
53-7021	Crane and Tower Operators	40	34	-6	-15.00	0	1	1	18.49	9
53-7031	Dredge Operators	*	*	*	*	*	*	*	n/a	10
53-7032	Excavating & Loading Machine & Dragline Ops.	66	78	12	18.18	1	2	3	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	1,689	1,786	97	5.74	10	50	60	14.20	11
53-7061	Cleaners of Vehicles and Equipment	632	635	3	0.47	0	23	23	10.55	11
53-7062	Laborers & Freight, Stock & Material Movers, Hand	3,384	3,480	96	2.84	10	109	119	11.32	11
53-7063	Machine Feeders and Offbearers	533	427	-106	-19.89	0	6	6	12.94	11
53-7064	Packers and Packagers, Hand	1,241	1,161	-80	-6.45	0	21	21	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	160	203	43	26.88	4	5	9	12.92	11
53-7111	Shuttle Car Operators	*	*	*	*	*	*	*	21.28	11
53-7121	Tank Car, Truck, and Ship Loaders	*	*	*	*	*	*	*	18.39	10
53-7199	Material Moving Workers, All Other	80	86	6	7.50	1	1	2	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.

Occupational Title	Page
--------------------	------

A

Accountants & Auditors	13
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
Art Directors	24
Art, Drama, & Music Teachers, Postsecondary	22
Artists & Related Workers, All Other	24
Arts, Design, Entertainment, Sports, & Media Occupations	24

Occupational Title	Page
--------------------	------

Assemblers & Fabricators	42
Assemblers & Fabricators, All Other	42
Astronomers	17
Athletes & Sports Competitors	24
Athletic Trainers	27
Atmospheric & Space Scientists	17
Atmospheric, Earth, Marine, & Space Sciences Teachers, Postsecondary	21
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
Bindery Workers	43
Biochemists & Biophysicists	17
Biological Science Teachers, Postsecondary	21
Biological Scientists, All Other	17
Biological Technicians	18
Biomedical Engineers	15
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
Butchers & Meat Cutters	42

Occupational Title	Page
--------------------	------

C

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
Communications Teachers, Postsecondary	22
Community & Social Service Specialists, All Other	19
Community & Social Services Occupations	19
Compensation & Benefits Managers	11
Compensation, Benefits, & Job Analysis Specialists	13
Compliance Officers, Except Agriculture, Construction, Health & Safety, & Transportation	13
Computer & Information Scientists, Research	14

Occupational Title	Page
--------------------	------

Computer & Information Scientists, Research	11
Computer & Information Systems Managers	14
Computer & Mathematical Occupations	15
Computer Hardware Engineers	36
Computer Operators	14
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
Concierges	17
Conservation Scientists	39
Construction & Building Inspectors	38
Construction & Extraction Occupations	39
Construction & Related Workers, All Other	38
Construction Laborers	12
Construction Managers	38
Construction Trades Workers	39
Continuous Mining Machine Operators	41
Control & Valve Installers & Repairers, Except Mechanical Door	48
Conveyor Operators & Tenders	30
Cooks & Food Preparation Workers	30
Cooks, All Other	30
Cooks, Fast Food	30
Cooks, Institution & Cafeteria	30
Cooks, Private Household	30
Cooks, Restaurant	30
Cooks, Short Order	46
Cooling & Freezing Equipment Operators & Tenders	29
Correctional Officers & Jailers	35
Correspondence Clerks	13
Cost Estimators	32
Costume Attendants	19
Counselors, All Other	19
Counselors, Social Workers, & Other Community & Social Service Specialists	34
Counter & Rental Clerks	30
Counter Attendants, Cafeteria, Food Concession, & Coffee Shop	36
Couriers & Messengers	20
Court Reporters	35
Court, Municipal, & License Clerks	24
Craft Artists	48
Crane & Tower Operators	13
Credit Analysts	35
Credit Authorizers, Checkers, & Clerks	22
Criminal Justice & Law Enforcement Teachers, Postsecondary	
Crossing Guards	29

Occupational Title	Page
Crushing, Grinding, & Polishing Machine Setters, Operators Curators	45 23
Customer Service Representatives	35
Cutters & Trimmers, Hand	45
Cutting & Slicing Machine Setters, Operators, & Tenders	45
Cutting, Punching, & Press Machine Setters, Operators, & Tenders, Metal & Plastic	43

D

Dancers	24
Data Entry Keyers	36
Database Administrators	14
Demonstrators & Product Promoters	34
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

Earth Drillers, Except Oil & Gas	39
Economics Teachers, Postsecondary	21
Economists	18
Editors	25
Education Administrators, All Other	12
Education Administrators, Elementary & Secondary School	12
Education Administrators, Postsecondary	12
Education Administrators, Preschool & Child Care Center/Program	12
Education Teachers, Postsecondary	21
Education, Training, & Library Occupations	21
Education, Training, & Library Workers, All Other	23

Occupational Title	Page
Educational, Vocational, & School Counselors	19
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
Electronic Home Entertainment Equipment Installers & Repairers	40
Electronics Engineers, Except Computer	15
Elementary School Teachers, Except Special Education	22
Elevator Installers & Repairers	39
Eligibility Interviewers, Government Programs	35
Embalmers	32
Emergency Management Specialists	13
Emergency Medical Technicians & Paramedics	27
Employment, Recruitment, & Placement Specialists	13
Engine & Other Machine Assemblers	42
Engineering Managers	12
Engineering Teachers, Postsecondary	21
Engineering Technicians, Except Drafters, All Other	16
Engineers	15
Engineers, All Other	15
English Language & Literature Teachers, Postsecondary	22
Entertainers & Performers, Sports & Related Workers	24
Entertainers & Performers, Sports & Related Workers, All	24
Entertainment Attendants & Related Workers	32
Entertainment Attendants & Related Workers, All Other	32
Environmental Engineering Technicians	16
Environmental Engineers	15
Environmental Science & Protection Technicians, Including Health	18
Environmental Scientists & Specialists, Including Health	17
Epidemiologists	17
Etchers & Engravers	46
Excavating & Loading Machine & Dragline Operators	48
Executive Secretaries & Administrative Assistants	36
Explosives Workers, Ordnance Handling Experts, & Blasters	39
Extraction Workers	39
Extraction Workers, All Other	39
Extruding & Drawing Machine Setters, Operators, & Tender	42
Extruding & Forming Machine Setters, Operators, & Tender	44
Extruding, Forming, Pressing, & Compacting Machine Setters	45

Occupational Title	Page
--------------------	------

F

Fabric & Apparel Patternmakers	44
Fabric Menders, Except Garment	41
Fallers	37
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
First-Line Supervisors/Managers of Landscaping, Lawn Service, & Groundskeeping Workers	31
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
First-Line Supervisors/Managers of Retail Sales Workers	34
First-Line Supervisors/Managers of Transportation & Material Moving Occupations	47
First-Line Supervisors/Managers, Protective Service Workers	29
First-Line Supervisors/Managers, Protective Service Workers, All Other	29
Fish & Game Wardens	29
Fishing & Hunting Workers	37

Occupational Title	Page
--------------------	------

Fishers & Related Fishing Workers	37
Fitness Trainers & Aerobics Instructors	33
Flight Attendants	32
Floor Layers, Except Carpet, Wood, & Hard Tiles	38
Floor Sanders & Finishers	38
Floral Designers	24
Food & Beverage Serving Workers	30
Food & Tobacco Roasting, Baking, & Drying Machine Operators & Tenders	42
Food Batchmakers	42
Food Cooking Machine Operators & Tenders	42
Food Preparation & Serving Related Occupations	30
Food Preparation & Serving Related Workers, All Other	30
Food Preparation Workers	30
Food Processing Workers	42
Food Scientists & Technologists	17
Food Servers, Nonrestaurant	30
Food Service Managers	12
Foreign Language & Literature Teachers, Postsecondary	22
Forensic Science Technicians	18
Forest & Conservation Technicians	18
Forest & Conservation Workers	37
Forest Fire Inspectors & Prevention Specialists	29
Forest, Conservation, & Logging Workers	37
Foresters	17
Forestry & Conservation Science Teachers, Postsecondary	21
Forging Machine Setters, Operators, & Tenders, Metal & Plastic	42
Foundry Mold & Coremakers	43
Funeral Attendants	32
Funeral Directors	12
Funeral Service Workers	32
Furnace, Kiln, Oven, Drier, & Kettle Operators & Tenders	45
Furniture Finishers	44

G

Gaming & Sports Book Writers & Runners	32
Gaming Change Persons & Booth Cashiers	34
Gaming Supervisors	32
Gaming Surveillance Officers & Gaming Investigators	29
Gas Compressor & Gas Pumping Station Operators	48
Gas Plant Operators	45
General & Operations Managers	11
Geographers	18
Geography Teachers, Postsecondary	21
Geological & Petroleum Technicians	18
Geoscientists, Except Hydrologists & Geographers	17
Glaziers	38
Graders & Sorters, Agricultural Products	37
Graduate Teaching Assistants	22
Graphic Designers	24

Occupational Title	Page
Grinding & Polishing Workers, Hand	45
Grinding, Lapping, Polishing, & Buffing Machine Tool Setters, Operators, & Tenders, Metal & Plastic	43
Grounds Maintenance Workers	31
Grounds Maintenance Workers, All Other	31
H	
Hairdressers, Hairstylists, & Cosmetologists	32
Hazardous Materials Removal Workers	39
Health & Safety Engineers, Except Mining Safety Engineers	15
Health Diagnosing & Treating Practitioners	26
Health Diagnosing & Treating Practitioners, All Other	26
Health Educators	19
Health Specialties Teachers, Postsecondary	21
Health Technologists & Technicians	27
Health Technologists & Technicians, All Other	27
Healthcare Practitioners & Technical Occupations	26
Healthcare Practitioners & Technical Workers, All Other	27
Healthcare Support Occupations	28
Healthcare Support Workers, All Other	28
Heat Treating Equipment Setters, Operators, & Tenders, Metal & Plastic	43
Heating, Air Conditioning, & Refrigeration Mechanics & Installers	41
Helpers, Construction Trades	39
Helpers, Construction Trades, All Other	39
Helpers—Brickmasons, Blockmasons, Stonemasons, & Tile & Marble Setters	39
Helpers—Carpenters	39
Helpers—Electricians	39
Helpers—Extraction Workers	39
Helpers—Installation, Maintenance, & Repair Workers	41
Helpers—Painters, Paperhangers, Plasterers, & Stucco Masons	39
Helpers—Pipelayers, Plumbers, Pipefitters, & Steamfitters	39
Helpers—Production Workers	46
Helpers—Roofers	39
Highway Maintenance Workers	39
Historians	18
History Teachers, Postsecondary	22
Hoist & Winch Operators	48
Home Appliance Repairers	41
Home Economics Teachers, Postsecondary	22
Home Health Aides	28
Hosts & Hostesses, Restaurant, Lounge, & Coffee Shop	30
Hotel, Motel, & Resort Desk Clerks	35
Human Resources Assistants, Except Payroll & Timekeeping	35
Human Resources Managers, All Other	11
Human Resources, Training, & Labor Relations Specialists, All Other	13
Hydrologists	17

Occupational Title	Page
I	
Industrial Engineering Technicians	16
Industrial Engineers	15
Industrial Machinery Mechanics	41
Industrial Production Managers	11
Industrial Truck & Tractor Operators	48
Information & Record Clerks	35
Information & Record Clerks, All Other	35
Inspectors, Testers, Sorters, Samplers, & Weighers	45
Installation, Maintenance, & Repair Occupations	40
Installation, Maintenance, & Repair Workers, All Other	41
Instructional Coordinators	23
Insulation Workers, Floor, Ceiling, & Wall	38
Insulation Workers, Mechanical	38
Insurance Appraisers, Auto Damage	13
Insurance Claims & Policy Processing Clerks	36
Insurance Sales Agents	34
Insurance Underwriters	13
Interior Designers	24
Internists, General	26
Interpreters & Translators	25
Interviewers, Except Eligibility & Loan	35
J	
Janitors & Cleaners, Except Maids & Housekeeping Cleaners	31
Jewelers & Precious Stone & Metal Workers	45
Job Printers	43
Judges, Magistrate Judges, & Magistrates	20
K	
Kindergarten Teachers, Except Special Education	22
L	
Laborers & Freight, Stock, & Material Movers, Hand	48
Landscape Architects	15
Landscaping & Groundskeeping Workers	31
Lathe & Turning Machine Tool Setters, Operators, & Tenders, Metal & Plastic	43
Laundry & Dry-Cleaning Workers	44
Law Clerks	20
Law Enforcement Workers	29
Law Teachers, Postsecondary	22
Lawyers	20
Lawyers, Judges, & Related Workers	20
Lay-Out Workers, Metal & Plastic	43
Legal Occupations	20

Occupational Title	Page
--------------------	------

Legal Secretaries	36
Legal Support Workers	20
Legal Support Workers, All Other	20
Legislators	11
Librarians	23
Librarians, Curators, & Archivists	23
Library Assistants, Clerical	35
Library Science Teachers, Postsecondary	21
Library Technicians	23
Licensed Practical & Licensed Vocational Nurses	27
Life Scientists	17
Life Scientists, All Other	17
Life, Physical, & Social Science Occupations	17
Life, Physical, & Social Science Technicians	18
Life, Physical, & Social Science Technicians, All Other	18
Lifeguards, Ski Patrol, & Other Recreational Protective Service Workers	29
Loading Machine Operators, Underground Mining	48
Loan Counselors	13
Loan Interviewers & Clerks	35
Loan Officers	13
Locker Room, Coatroom, & Dressing Room Attendants	32
Locksmiths & Safe Repairers	41
Locomotive Engineers	47
Locomotive Engineers	47
Locomotive Firers	47
Lodging Managers	12
Log Graders & Scalers	37
Logging Equipment Operators	37
Logging Workers, All Other	37
Logisticians	13

M

Machine Feeders & Offbearers	48
Machinists	43
Maids & Housekeeping Cleaners	31
Mail Clerks & Mail Machine Operators, Except Postal Service	36
Maintenance & Repair Workers, General	41
Maintenance Workers, Machinery	41
Makeup Artists, Theatrical & Performance	32
Management Analysts	13
Management Occupations	11
Managers, All Other	12
Manicurists & Pedicurists	32
Manufactured Building & Mobile Home Installers	41
Marine Engineers & Naval Architects	15
Market Research Analysts	18
Marketing Managers	11
Marriage & Family Therapists	19
Massage Therapists	28

Occupational Title	Page
--------------------	------

Material Moving Workers	48
Material Moving Workers, All Other	48
Material Recording, Scheduling, Dispatching, & Distributing Workers	36
Materials Engineers	15
Materials Scientists	17
Mathematical Science Occupations, All Other	14
Mathematical Science Teachers, Postsecondary	21
Mathematical Scientists	14
Mathematicians	14
Meat, Poultry, & Fish Cutters & Trimmers	42
Mechanical Door Repairers	41
Mechanical Drafters	16
Mechanical Engineering Technicians	16
Mechanical Engineers	15
Media & Communication Equipment Workers	25
Media & Communication Equipment Workers, All Other	25
Media & Communication Workers	25
Media & Communication Workers, All Other	25
Medical & Clinical Laboratory Technicians	27
Medical & Clinical Laboratory Technologists	27
Medical & Health Services Managers	12
Medical & Public Health Social Workers	19
Medical Appliance Technicians	45
Medical Assistants	28
Medical Equipment Preparers	28
Medical Equipment Repairers	41
Medical Records & Health Information Technicians	27
Medical Scientists, Except Epidemiologists	17
Medical Secretaries	36
Medical Transcriptionists	28
Meeting & Convention Planners	13
Mental Health & Substance Abuse Social Workers	19
Mental Health Counselors	19
Merchandise Displayers & Window Trimmers	24
Metal Workers & Plastic Workers	42
Metal Workers & Plastic Workers, All Other	43
Metal-Refining Furnace Operators & Tenders	43
Meter Readers, Utilities	36
Microbiologists	17
Middle School Teachers, Except Special & Vocational Education	22
Milling & Planing Machine Setters, Operators, & Tenders, Metal & Plastic	43
Millwrights	41
Mine Cutting & Channeling Machine Operators	39
Mining & Geological Engineers, Including Mining Safety Engineers	15
Mining Machine Operators, All Other	39
Mixing & Blending Machine Setters, Operators, & Tenders	45
Mobile Heavy Equipment Mechanics, Except Engines	40
Model Makers, Metal & Plastic	43
Model Makers, Wood	44
Models	34

Occupational Title	Page
Molders, Shapers, & Casters, Except Metal & Plastic	46
Molding, Coremaking, & Casting Machine Setters, Operators, & Tenders, Metal & Plastic	43
Motion Picture Projectionists	32
Motor Vehicle Operators	47
Motor Vehicle Operators, All Other	47
Motorboat Mechanics	40
Motorboat Operators	47
Motorcycle Mechanics	40
Multi-Media Artists & Animators	24
Multiple Machine Tool Setters, Operators, & Tenders, Metal & Plastic	43
Museum Technicians & Conservators	23
Music Directors & Composers	24
Musical Instrument Repairers & Tuners	41
Musicians & Singers	24
N	
Natural Sciences Managers	12
Network & Computer Systems Administrators	14
Network Systems & Data Communications Analysts	14
New Accounts Clerks	35
Nonfarm Animal Caretakers	32
Nuclear Engineers	15
Nuclear Medicine Technologists	27
Numerical Tool & Process Control Programmers	42
Nursing Aides, Orderlies, & Attendants	28
Nursing Instructors & Teachers, Postsecondary	21
Nursing, Psychiatric, & Home Health Aides	28
O	
Obstetricians & Gynecologists	26
Occupational & Physical Therapist Assistants & Aides	28
Occupational Health & Safety Specialists	27
Occupational Health & Safety Technicians	27
Occupational Therapist Aides	28
Occupational Therapist Assistants	28
Occupational Therapists	26
Office & Administrative Support Occupations	35
Office & Administrative Support Workers, All Other	36
Office Clerks, General	36
Office Machine Operators, Except Computer	36
Operating Engineers & Other Construction Equipment Operators	38
Operations Research Analysts	14
Operations Specialties Managers	11
Ophthalmic Laboratory Technicians	45
Opticians, Dispensing	27
Optometrists	26
Oral & Maxillofacial Surgeons	26

Occupational Title	Page
Order Clerks	35
Orthodontists	26
Orthotists & Prosthetists	27
Other Construction & Related Workers	39
Other Education, Training, & Library Occupations	23
Other Food Preparation & Serving Related Workers	30
Other Healthcare Practitioners & Technical Occupations	27
Other Healthcare Support Occupations	28
Other Installation, Maintenance, & Repair Occupations	41
Other Management Occupations	12
Other Office & Administrative Support Workers	36
Other Personal Care & Service Workers	33
Other Production Occupations	45
Other Protective Service Workers	29
Other Sales & Related Workers	34
Other Teachers & Instructors	23
Other Transportation Workers	48
Outdoor Power Equipment & Other Small Engine Mechanics	40
P	
Packaging & Filling Machine Operators & Tenders	45
Packers & Packagers, Hand	48
Painters, Construction & Maintenance	38
Painters, Transportation Equipment	45
Painting, Coating, & Decorating Workers	45
Paper Goods Machine Setters, Operators, & Tenders	46
Paperhangers	38
Paralegals & Legal Assistants	20
Parking Enforcement Workers	29
Parking Lot Attendants	48
Parts Salespersons	34
Patternmakers, Metal & Plastic	43
Patternmakers, Wood	44
Paving, Surfacing, & Tamping Equipment Operators	38
Payroll & Timekeeping Clerks	35
Pediatricians, General	26
Personal & Home Care Aides	33
Personal Appearance Workers	32
Personal Care & Service Occupations	32
Personal Care & Service Workers, All Other	33
Personal Financial Advisors	13
Pest Control Workers	31
Pesticide Handlers, Sprayers, & Applicators, Vegetation	31
Petroleum Engineers	15
Petroleum Pump System Operators, Refinery Operators, & Gaugers	45
Pharmacists	26
Pharmacy Aides	28
Pharmacy Technicians	27
Philosophy & Religion Teachers, Postsecondary	22

Occupational Title	Page
Photographers	25
Photographic Process Workers	45
Photographic Processing Machine Operators	45
Physical Scientists	17
Physical Scientists, All Other	17
Physical Therapist Aides	28
Physical Therapist Assistants	28
Physical Therapists	26
Physician Assistants	26
Physicians & Surgeons	26
Physicists	17
Physics Teachers, Postsecondary	21
Pile-Driver Operators	38
Pipelayers	38
Plant & System Operators	45
Plant & System Operators, All Other	45
Plasterers & Stucco Masons	38
Plating & Coating Machine Setters, Operators, & Tenders, Metal & Plastic	43
Plumbers, Pipefitters, & Steamfitters	38
Podiatrists	26
Police & Sheriff's Patrol Officers	29
Police, Fire, & Ambulance Dispatchers	36
Political Science Teachers, Postsecondary	21
Political Scientists	18
Postal Service Clerks	36
Postal Service Mail Carriers	36
Postal Service Mail Sorters, Processors, & Processing Machine Operators	36
Postmasters & Mail Superintendents	12
Postsecondary Teachers	21
Postsecondary Teachers, All Other	22
Pourers & Casters, Metal	43
Power Distributors & Dispatchers	45
Power Plant Operators	45
Precision Instrument & Equipment Repairers, All Other	41
Prepress Technicians & Workers	43
Preschool Teachers, Except Special Education	22
Pressers, Textile, Garment, & Related Materials	44
Primary, Secondary, & Special Education School Teachers	22
Printing Machine Operators	43
Printing Workers	43
Private Detectives & Investigators	29
Probation Officers & Correctional Treatment Specialists	19
Procurement Clerks	35
Producers & Directors	24
Production Occupations	42
Production Workers, All Other	46
Production, Planning, & Expediting Clerks	36
Proofreaders & Copy Markers	36
Property, Real Estate, & Community Association Managers	12
Protective Service Occupations	29
Protective Service Workers, All Other	29

Occupational Title	Page
Psychiatric Aides	28
Psychiatric Technicians	27
Psychiatrists	26
Psychologists, All Other	18
Psychology Teachers, Postsecondary	21
Public Address System & Other Announcers	25
Public Relations Managers	11
Public Relations Specialists	25
Pump Operators, Except Wellhead Pumpers	48
Purchasing Agents & Buyers, Farm Products	13
Purchasing Agents, Except Wholesale, Retail, & Farm Products	13
Purchasing Managers	11

R

Radiation Therapists	26
Radio & Television Announcers	25
Radio Mechanics	40
Radiologic Technologists & Technicians	27
Rail Car Repairers	40
Rail Transportation Workers	47
Rail Transportation Workers, All Other	47
Railroad Brake, Signal, & Switch Operators	47
Railroad Conductors & Yardmasters	47
Rail-Track Laying & Maintenance Equipment Operators	39
Real Estate Brokers	34
Real Estate Sales Agents	34
Receptionists & Information Clerks	35
Recreation & Fitness Studies Teachers, Postsecondary	22
Recreation Workers	33
Recreational Therapists	26
Recreational Vehicle Service Technicians	40
Refractory Materials Repairers, Except Brickmasons	41
Refuse & Recyclable Material Collectors	48
Registered Nurses	26
Rehabilitation Counselors	19
Reinforcing Iron & Rebar Workers	38
Religious Workers	19
Religious Workers, All Other	19
Reporters & Correspondents	25
Reservation & Transportation Ticket Agents & Travel Clerks	35
Residential Advisors	33
Respiratory Therapists	26
Respiratory Therapy Technicians	27
Retail Sales Workers	34
Retail Salespersons	34
Riggers	41
Rock Splitters, Quarry	39
Rolling Machine Setters, Operators, & Tenders, Metal & Plastic	42
Roof Bolters, Mining	39
Roofers	38

Occupational Title	Page
--------------------	------

Rotary Drill Operators, Oil & Gas	39
Roustabouts, Oil & Gas	39

S

Sailors & Marine Oilers	47
Sales & Related Occupations	34
Sales & Related Workers, All Other	34
Sales Engineers	34
Sales Managers	11
Sales Representatives, Services	34
Sales Representatives, Services, All Other	34
Sales Representatives, Wholesale & Manufacturing	34
Sales Representatives, Wholesale & Manufacturing, Except Technical & Scientific Products	34
Sales Representatives, Wholesale & Manufacturing, Technical & Scientific Products	34
Sawing Machine Setters, Operators, & Tenders, Wood	44
Secondary School Teachers, Except Special & Vocational Education	22
Secretaries & Administrative Assistants	36
Secretaries, Except Legal, Medical, & Executive	36
Securities, Commodities, & Financial Services Sales Agents	34
Security & Fire Alarm Systems Installers	40
Security Guards	29
Self-Enrichment Education Teachers	23
Separating, Filtering, Clarifying, Precipitating, & Still Machine Setters, Operators, & Tenders	45
Septic Tank Servicers & Sewer Pipe Cleaners	39
Service Station Attendants	48
Service Unit Operators, Oil, Gas, & Mining	39
Set & Exhibit Designers	24
Sewers, Hand	44
Sewing Machine Operators	44
Shampooers	32
Sheet Metal Workers	38
Ship Engineers	47
Shipping, Receiving, & Traffic Clerks	36
Shoe & Leather Workers & Repairers	44
Shoe Machine Operators & Tenders	44
Shuttle Car Operators	48
Signal & Track Switch Repairers	41
Skin Care Specialists	32
Slaughterers & Meat Packers	42
Social & Community Service Managers	12
Social & Human Service Assistants	19
Social Science Research Assistants	18
Social Sciences Teachers, Postsecondary, All Other	21
Social Scientists & Related Workers	18
Social Scientists & Related Workers, All Other	18
Social Work Teachers, Postsecondary	22
Social Workers, All Other	19
Sociology Teachers, Postsecondary	21

Occupational Title	Page
--------------------	------

Soil & Plant Scientists	17
Sound Engineering Technicians	25
Special Education Teachers, Middle School	22
Special Education Teachers, Preschool, Kindergarten, & Elementary	22
Special Education Teachers, Secondary School	22
Speech-Language Pathologists	26
Stationary Engineers & Boiler Operators	45
Statistical Assistants	36
Statisticians	14
Stock Clerks & Order Fillers	36
Stonemasons	38
Structural Iron & Steel Workers	38
Structural Metal Fabricators & Fitters	42
Substance Abuse & Behavioral Disorder Counselors	19
Supervisors of Installation, Maintenance, & Repair Workers	40
Supervisors, Building & Grounds Cleaning & Maintenance Workers	31
Supervisors, Construction & Extraction Workers	38
Supervisors, Farming, Fishing, & Forestry Workers	37
Supervisors, Food Preparation & Serving Workers	30
Supervisors, Office & Administrative Support Workers	35
Supervisors, Personal Care & Service Workers	32
Supervisors, Production Workers	42
Supervisors, Sales Workers	34
Supervisors, Transportation & Material Moving Workers	47
Surgeons	26
Surgical Technologists	27
Survey Researchers	18
Surveying & Mapping Technicians	16
Surveyors	15
Switchboard Operators, Including Answering Service	35

T

Tailors, Dressmakers, & Custom Sewers	44
Tank Car, Truck, & Ship Loaders	48
Tapers	38
Tax Examiners, Collectors, & Revenue Agents	13
Tax Preparers	13
Taxi Drivers & Chauffeurs	47
Teacher Assistants	23
Teachers & Instructors, All Other	23
Team Assemblers	42
Technical Writers	25
Telecommunications Equipment Installers & Repairers, Except Line Installers	40
Telecommunications Line Installers & Repairers	41
Telemarketers	34
Telephone Operators	35
Tellers	35
Terrazzo Workers & Finishers	38
Textile Bleaching & Dyeing Machine Operators & Tenders	44
Textile Cutting Machine Setters, Operators, & Tenders	44

Occupational Title	Page
Textile Knitting & Weaving Machine Setters, Operators, & Tenders	44
Textile Winding, Twisting, & Drawing Out Machine Setters, Operators, & Tenders	44
Textile, Apparel, & Furnishings Workers	44
Textile, Apparel, & Furnishings Workers, All Other	44
Therapists, All Other	26
Tile & Marble Setters	38
Timing Device Assemblers, Adjusters, & Calibrators	42
Tire Builders	46
Tire Repairers & Changers	40
Title Examiners, Abstractors, & Searchers	20
Tool & Die Makers	43
Tool Grinders, Filers, & Sharpeners	43
Top Executives	11
Total, All Occupations	
Tour Guides & Escorts	32
Traffic Technicians	48
Training & Development Managers	11
Training & Development Specialists	13
Transit & Railroad Police	29
Transportation & Material Moving Occupations	47
Transportation Attendants, Except Flight Attendants & Baggage Porters	32
Transportation Inspectors	48
Transportation Workers, All Other	48
Transportation, Storage, & Distribution Managers	11
Transportation, Tourism, & Lodging Attendants	32
Travel Agents	34
Travel Guides	32
Tree Trimmers & Pruners	31
Truck Drivers, Heavy & Tractor-Trailer	47
Truck Drivers, Light or Delivery Services	47
U	
Umpires, Referees, & Other Sports Officials	24
Upholsterers	44
Urban & Regional Planners	18
Ushers, Lobby Attendants, & Ticket Takers	32
V	
Vehicle & Mobile Equipment Mechanics, Installers	40
Veterinarians	26
Veterinary Assistants & Laboratory Animal Caretakers	28
Veterinary Technologists & Technicians	27
Vocational Education Teachers, Middle School	22
Vocational Education Teachers, Postsecondary	22
Vocational Education Teachers, Secondary School	22

Occupational Title	Page
W	
Waiters & Waitresses	30
Watch Repairers	41
Water & Liquid Waste Treatment Plant & System Operators	45
Water Transportation Workers	47
Weighers, Measurers, Checkers, & Samplers, Recordkeeping	36
Welders, Cutters, Solderers, & Brazers	43
Welding, Soldering, & Brazing Machine Setters, Operators, & Tenders	43
Wellhead Pumpers	48
Wholesale & Retail Buyers, Except Farm Products	13
Woodworkers	44
Woodworkers, All Other	44
Woodworking Machine Setters, Operators, & Tenders, Except Sawing	44
Word Processors & Typists	36
Writers & Authors	25
Z	
Zoologists & Wildlife Biologists	17