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# **Occupational Growth in East Central Indiana:**

## Projections for the Year 2005

Prepared for the Area 6 Workforce Partnership Council

*by the Bureau of Business Research  
Ball State University*

**August 1996**

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# Introduction

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Career Clusters are a relatively new taxonomy of occupational employment designed to blend other, older classification schemes into an integrated whole. Occupational Employment Statistics (OES) codes from the U.S. Department of Labor, Classification of Instructional Program (CIP) codes from the U.S. Department of Education, and Department of Transportation (DOT) codes from the U.S. Department of Transportation can all be translated into the scheme of Career Cluster codes. One planned application of the hierarchy of Career Cluster codes is in the detailed analysis of labor market conditions by occupation. Occupational employment data from different sources (OES and CIP) will be matched within the Career Cluster structure to provide an analysis of the demand for and supply of workers in various occupations.

There are three levels of occupational detail in the Career Cluster hierarchy. At the highest level are the fourteen Career Clusters, giving a broad overview of occupations. Cluster Focus groups give additional detail within each Career Cluster. The basic building blocks of the clusters are several hundred Units of Analysis. It is at this lowest level of the structure that relationships to other classification schemes are established.

Our objective in this report is to provide estimates of employment within the structure of Career Cluster codes for 1990 and projections of the same information for the year 2005. The

report includes summary information for the U.S., but its primary focus is the state of Indiana and Service Delivery Area 6, comprising Blackford, Delaware, Grant, Henry, Jay, Madison, and Randolph counties within the state.

Due to a lack of information on employment by Career Cluster codes, we have found it necessary to obtain data and carry out projections by OES codes. Analytical results have subsequently been translated into Units of Analysis to put the information into the appropriate form.

One explanatory note is required. In examination of the detailed projections later in this report, the reader will note gaps in the tables, representing no data, for Area 6 in comparison to the state. There are two reasons for these gaps. First, Area 6 is a relatively small region with respect to the state and the nation. Certain classes of economic activity, for instance deep sea transportation, do not occur here but do occur in the state. Where gaps of this sort occur, the table is left blank for Area 6. The second reason for gaps is differences in the source data available. For instance, architects and landscape architects are distinguished in the statewide report but are combined in the Area 6 report. Thus for some occupational categories no comparison is possible, whereas for some other categories there is some definitional difference in the items being compared.

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# **Summary of Results**

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The results of our projections are similar for Indiana and Area 6. The largest areas of occupational employment are business, services to persons and businesses, and manufacturing. We expect them to remain so in the future.

The largest shares of total employment will be in the above occupations, and they will provide the largest job increases over the next decade. This statement applies less to manufacturing than to the other two categories. While manufacturing jobs will increase in number, this increase will be less than in a number of other occupa-

tions. This "decline" is particularly apparent in Area 6.

Health, education, and legal services should be the fastest growing occupations in both the state and Area 6. The best combination of increase in the number of jobs and rate of growth is personal and commercial services.

Table 1 gives rankings for Indiana and Area 6 for Career Clusters. Table 2 summarizes the fastest growing detailed occupations in both areas.

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**Table 2**  
**Five Highest Ranking Employment Sectors**  
**by Year 2005 Employment, Employment Growth, and Percent Employment Growth**  
**Service Delivery Area 6 and Indiana**

<i><b>Unit of Analysis</b></i>	<b>Area 6</b>		<b>Indiana</b>	
	<i><b>Year 2005 Employment</b></i>	<i><b>Rank</b></i>	<i><b>Year 2005 Employment</b></i>	<i><b>Rank</b></i>
2990 Office Clerical	12,178	1	240,232	1
2120 Sales	10,708	2	185,222	2
2280 Food Services	10,626	3	153,107	3
2050 Agricultural Serv. & Supplies	8,223	4		
2710 Metal Machining	6,283	5		
2950 Business Mgt. & Administration			93,191	4
2460 Housekeeping/Building Services			90,120	5
	<i><b>Growth 1990-2005</b></i>		<i><b>Growth 1990-2005</b></i>	
		<i><b>Rank</b></i>		<i><b>Rank</b></i>
2280 Food Services	2,191	1	39,295	2
2120 Sales	2,027	2	37,364	3
2990 Office Clerical	1,695	3	43,068	1
1750 Nursing	1,243	4		
2852 Nurse Assisting	1,236	5		
2460 Housekeeping/Building Services			23,748	4
2150 Food Marketing			18,644	5
	<i><b>Percent Growth 1990-2005</b></i>		<i><b>Percent Growth 1990-2005</b></i>	
		<i><b>Rank</b></i>		<i><b>Rank</b></i>
1730 Surgical Technology	42.9%	1	52.6%	2
2920 EKG	42.9%	1		
1770 Optometry	42.7%	3		
1600 Dental Hygiene	42.1%	4	52.5%	4
2910 Medical Assisting	42.1%	5		
2930 EEG			52.8%	1
1570 Other Health Diag./Treatment			52.6%	3
1631 Cardiology Technology			52.5%	5

# Methodology

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This section describes the sources and techniques used to prepare the projections in this document.

Projections of occupational employment at any level in the Career Cluster hierarchy are not available. We therefore followed a two-step procedure in preparing the needed projections. First, we obtained available projections by Occupational Employment Statistics (OES) code for the U.S. and Indiana and used this information to make projections for Area 6. We then translated these projections into Units of Analysis.

We obtained projections by OES code for the U.S. from [6]. It was necessary to extrapolate the beginning year of these projections back to 1990 from 1994. The Indiana Department of Workforce Development kindly provided us with preliminary projections for Indiana by OES code [3] spanning the years 1990 to 2005.

It remained to make similar projections for Area 6. We used annual figures for total employment covered by unemployment insurance in [5] to estimate the rate of growth of total employment in Area 6 from 1990 to 2005. An earlier estimate of employment in Area 6 by

OES code for the years 1984 to 1995 [1] provided an estimate of levels of employment by occupation in 1990. We assumed that specific occupations in Area 6 would experience the same growth (or contraction) as statewide for the years from 1990 to 2005. These proportionate changes were implicitly available in the statewide projection.

Given the above information, we constructed Area 6 projections as follows. Project the proportion of total employment in each OES category by applying the change in that category statewide. Obtain actual projected levels of employment in 2005 for each OES category by applying the projected proportion for that category to projected total OES employment.

The Indiana Department of Workforce Development also provided us with a detailed breakdown of the relationship between OES codes and Unit of Analysis codes, both for Indiana [2] and for the U.S. [4]. After associating a Unit of Analysis code with each OES code, it remained only to aggregate the projections already obtained to Units of Analysis (OES codes often are more detailed than Unit of Analysis codes.).

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## **References**

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1. Indiana Department of Employment and Training Services, *Occupational Projections, 1984-1995: Indiana Economic Region 6*.
  2. Indiana Department of Workforce Development, "Indiana Units of Analysis," unpublished worksheet containing preliminary data.
  3. Indiana Department of Workforce Development, "OES Matrix Industry Employment and Percent Distribution by Occupation, 1990 and Projected 2005," unpublished worksheet containing preliminary data.
  4. Indiana Department of Workforce Development, "U.S. Units of Analysis," unpublished internal document attributed to the U.S. Department of Labor.
  5. U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Measurement Division, *Regional Economic Information System*, Table CA25, Employment by Industry, 1969-1994, compact disc.
  6. U.S. Department of Labor, Bureau of Labor Statistics, "Industry-Occupation Matrix, 1995-2005," data file obtained from [www.bls.gov](http://www.bls.gov).
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## **Projections by Occupation**

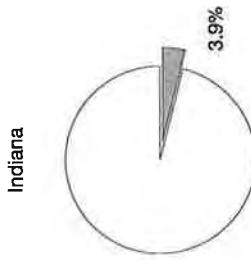
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## Career Cluster: Agriculture & Natural Resources

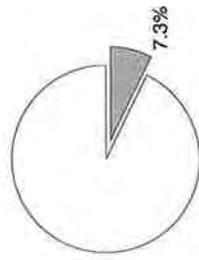
## Projected Percent Growth 1990–2005

### Occupation

Projected Percent Growth 1990 – 2005							Occupation													
				Occupation					Indiana					Area 6						
US		17.5		Code		Description	Employment 1990		2005		Change	Pct. Change	Employment 1990		2005		Change	Pct. Change		
Indiana		15.1		011	NAT. RES. / AGRI.		95,805	110,289	14,484	15.1	11,873	13,501	1,628	13.7						
2010	Farming			15,405	14,062	-1,343	-8.7	1,310	1,456	146	11.1									
2030	Fish and Wildlife Management			194	254	60	30.9	10	12	2	20.0									
2040	Food Processing/Production			6,339	6,397	58	0.9	2,533	2,592	59	2.3									
2050	Agricultural Serv. & Supplies			65,816	78,777	12,961	19.7	7,060	8,223	1,163	16.5									
2060	Garden and Landscape Services			6,822	9,357	2,535	37.2	880	1,131	251	28.5									
2070	Agricultural Food Sciences			201	214	13	6.5	25	25	0	0.0									
2080	Forestry and Conservation			615	731	116	18.9	25	27	2	8.0									
2100	Timber Harvesting			413	498	85	20.6	30	34	4	13.3									



Indiana



Area 6

## Projections by Occupation

	Indiana			Area 6			Pct. Change
	Employment 1990	2005	Change	Employment 1990	2005	Change	
95,805	110,289	14,484	15.1	11,873	13,501	1,628	13.7
15,405	14,062	-1,343	-8.7	1,310	1,456	146	11.1
194	254	60	30.9	10	12	2	20.0
6,339	6,397	58	0.9	2,533	2,592	59	2.3
65,816	78,777	12,961	19.7	7,060	8,223	1,163	16.5
6,822	9,357	2,535	37.2	880	1,131	251	28.5
201	214	13	6.5	25	25	0	0.0
615	731	116	18.9	25	27	2	8.0
413	498	85	20.6	30	34	4	13.3

## Career Cluster: Art, Media & Communication

Projected  
Percent Growth  
1990 – 2005

	US	Indiana	Area 6	Occupation		Indiana		Area 6		Pct. Change
				Code	Description	Employment 1990	2005	Change	Pct. Change	
	26.9	25.4	19.1	021	ARCHITECTURE	1,081	1,465	384	35.5	27.3
				1020	Architecture	691	948	257	37.2	27.3
				1040	Landscape Architecture	390	517	127	32.6	—
				022	FINE AND PERF. ARTS	5,084	6,364	1,280	25.2	21.6
				2790	Arts and Crafts	2,413	2,835	422	17.5	16.5
				2800	Dance	194	269	75	38.7	—
				2810	Photography	1,327	1,708	381	28.7	—
				2830	Dramatic Arts	391	500	109	27.9	20.0
				2840	Music	759	1,052	293	38.6	32
				023	DESIGN	6,307	7,819	1,512	24.0	29.1
				2140	Design	5,917	7,302	1,385	23.4	16.1
				2385	Interior Design	390	517	127	32.6	—
				025	INFORMATION COLLECT.	8,286	10,373	2,087	25.2	17.6
				1300	Library Science	2,334	3,320	986	42.2	32.9
				1320	Archival Science	94	129	35	37.2	—
				2210	Commun./Journalism/Broadcast	4,795	5,385	590	12.3	4.1
				2480	Library Assisting	1,063	1,539	476	44.8	36.0
										0.9%
										0.9%
										Area 6

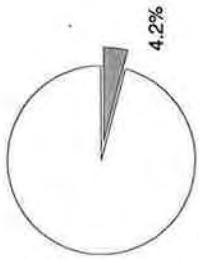
# Career Cluster: Engineering, Science & Technologies

Projected  
Percent Growth  
1990 – 2005

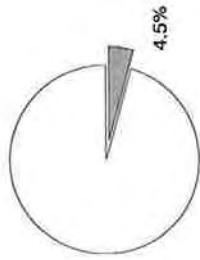
## Projections by Occupation

US	Indiana	Area 6	Occupation		Indiana			Area 6			
			Code	Description	Employment 1990	2005	Pct. Change	Employment 1990	2005	Pct. Change	
32.6	15.4	7.4	031	ENGINEERING	24,602	26,876	2,274	9,2	1,965	2,014	49
			1110	All Other Engineering	5,844	6,535	691	11.8	860	896	36
			1111	Agricultural Engineering	41	42	1	2.4	-	-	-
			1112	Naval Arch., Marine Engineering	18	22	4	22.2	-	-	-
			1120	Aeronautical Engineering	161	191	30	18.6	-	-	-
			1130	Metallurgical/Ceramic/Material	693	673	-20	-2.9	30	27	-3
			1140	Chemical Engineering	642	667	25	3.9	20	19	-1
			1150	Civil Engineering	2,288	2,913	625	27.3	130	155	25
			1160	Electrical Engineering	6,187	6,570	383	6.2	265	263	-2
			1170	Industrial Engineering	3,049	3,184	135	4.4	295	288	-7
			1180	Mechanical Engineering	5,608	6,031	423	7.5	365	367	2
			1190	Mining Engineering	48	35	-13	-27.1	-	-	-
			1200	Nuclear Engineering	1	1	0	0.0	-	-	-
			1210	Petroleum Engineering	22	12	-10	-45.5	-	-	-
			032	ENGINEERING TECH.	42,557	48,622	6,065	14.3	4,564	4,883	319
			1220	All Other Engineering Tech.	5,894	7,016	1,122	19.0	708	774	66
			1221	Industrial Engineering Tech.	742	767	25	3.4	55	53	-2
			1222	Mechanical Engineering Tech.	1,422	1,573	151	10.6	90	93	3
			1223	Petroleum Engineering Tech.	1	1	0	0.0	-	-	-
			1230	Electrical Technology	6,643	7,164	521	7.8	344	345	1
			1260	Surveying	1,665	2,190	525	31.5	65	79	14
			1480	Communications Electronics	13,705	15,079	1,374	10.0	2,150	2,268	118
			1530	Drafting	7,301	8,805	1,504	20.6	510	580	70
			2250	Communication Technologies	2,129	2,398	269	12.6	493	528	35
			2350	Civil Engineering Technologies	1,319	1,755	436	33.1	45	56	11
			2390	Mining Technology	1,736	1,876	140	8.1	104	108	4
			033	NAT. SCIENCE / TECH.	16,878	19,648	2,770	16.4	530	612	82
			1310	Biological/Life Science	3,400	4,480	1,080	31.8	20	23	3
			1311	Medical Science	517	625	108	20.9	-	-	-

Share of Total Employment  
in Year 2005  
Indiana



Area 6



# Career Cluster: Engineering, Science & Technologies (continued)

Projected  
Percent Growth  
1990 – 2005

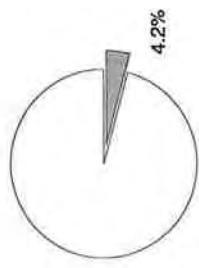
**Occupation**

## Forecast by Occupation

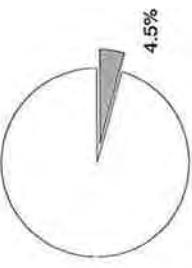
US	Indiana	Area 6	<i>Indiana</i>			<i>Area 6</i>		
			Employment 1990	2005	Pct. Change	Employment 1990	2005	Pct. Change
<b>32.6</b>	<b>15.4</b>	<b>7.4</b>	1,058	1,341	26.7	35	39	4 11.4
			31	28	-3 -9.7	-	-	- -
			2,134	2,407	12.8	45	45	0 0.0
			273	347	74 27.1	10	12	2 20.0
			6,666	6,921	3.8	5	5	0 0.0
			1,369	1,695	326 23.8	215	249	34 15.8
			1,291	1,657	366 28.4	200	240	40 20.0
			139	147	8 5.8	-	-	- -
			2,422	3,236	814 33.6	55	63	8 14.5
			1,399	1,881	482 34.5	40	44	4 10.0
			341	466	125 36.7	15	19	4 26.7
			682	889	207 30.4	-	-	- -
			16,561	20,542	3,981 24.0	735	855	120 16.3
			16,561	20,542	3,981 24.0	735	855	120 16.3

Share of Total Employment  
in Year 2005

Indiana



Area 6



# Career Cluster: Manufacturing and Processing

Projected  
Percent Growth  
1990 – 2005

## Projections by Occupation

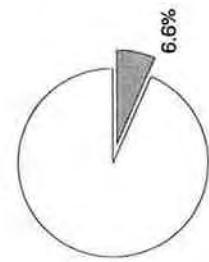
	US	Projected Percent Growth 1990 – 2005	Occupation	Indiana				Area 6				Pct. Change
				Code	Description	Employment 1990	2005	Pct. Change	Employment 1990	2005	Pct. Change	
Indiana		6.3	041 PRINTING AND PUBL.	18,736	20,174	1,438	7.7	745	746	1	0.1	
			2240 Photographic Processing	861	1,184	323	37.5	30	39	9	30.0	
			2680 Printing	9,739	10,424	685	7.0	275	277	2	0.7	
			2681 Typesetting and Composing	989	1,032	43	4.3	100	98	-2	-2.0	
			2682 Lithography and Platemaking	3,007	3,192	185	6.2	105	102	-3	-2.9	
			2683 Printing Press Operation	3,736	3,921	185	5.0	235	231	-4	-1.7	
			2684 Desktop Publishing Equip. Op.	404	421	17	4.2	-	-	-	-	
			042 METAL/PLASTICS PROD.	146,616	154,071	7,455	5.1	15,540	15,626	86	0.6	
			1540 Welding	15,288	16,606	1,318	8.6	1,400	1,407	7	0.5	
			2710 Metal Machining	67,323	70,143	2,820	4.2	6,195	6,283	88	1.4	
			2711 Tool and Die Making	8,934	9,407	473	5.3	1,735	1,706	-29	-1.7	
			2720 Metal Fabrication	55,071	57,915	2,844	5.2	6,210	6,230	20	0.3	
			043 OTHER PRODUCTION	104,913	112,917	8,004	7.6	7,072	7,195	123	1.7	
			1682 Optical Technology	231	251	20	8.7	-	-	-	-	
			2380 Quality Control/Inspection	1,098	1,162	64	5.8	124	122	-2	-1.6	
			2420 Clothing Production	26,119	27,865	1,746	6.7	645	673	28	4.3	
			2430 Tailoring	750	969	219	29.2	110	133	23	20.9	
			2450 Home Furnishings	23,833	25,919	2,086	8.8	1,882	1,912	30	1.6	
			2630 Power Plant Operations	6,601	6,149	-452	-6.8	668	643	-25	-3.7	
			2690 Upholstering	555	618	63	11.4	13	13	0	0.0	
			2700 Leather, Shoemaking, Repair	20,491	22,328	1,837	9.0	1,763	1,794	31	1.8	
			2730 Woodworking	25,237	27,657	2,420	9.6	1,868	1,904	36	1.9	
Share of Total Employment in Year 2005				Indiana				Area 6				

# Career Cluster: Mechanical Repair & Precision Craft

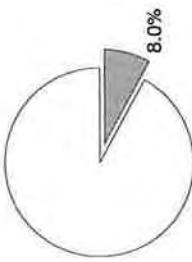
Projected  
Percent Growth  
1990 – 2005

## Projections by Occupation

US	Indiana	Area 6	Occupation				Indiana				Area 6			
			Code	Description	Employment 1990	2005	Pct. Change	Employment 1990	2005	Pct. Change	Employment 1990	2005	Pct. Change	
			051	APPLIANCE/LT. EQUIP.	75,351	87,831	12,480	16,6	6,324	6,731	407	6,4		
			1240	Electromechanical Equip.	4,772	5,087	315	6,6	279	270	-9	-3.2		
			1250	AC/Heating Installation/Repair	9,520	11,602	2,082	21,9	455	517	62	13.6		
			1460	Appliance/Equipment Repair	2,777	3,387	610	22,0	295	337	42	14.2		
			1470	Computer/Bus. Machines	15,413	16,635	1,222	7,9	1,970	1,942	-28	-1.4		
			1490	Musical Inst. Repair, Tuning	105	137	32	30,5	20	24	4	20.0		
			1500	Jewelry and Watch Repair	7,108	7,707	599	8,4	1,313	1,382	69	5.3		
			2360	Medical Equipment Repair	223	339	116	52,0	10	14	4	40.0		
			2600	Building Maintenance	35,434	42,939	7,505	21,2	1,983	2,245	262	13.2		
			052	HEAVY EQUIP. REPAIR	86,250	99,682	13,432	15,6	7,740	8,185	445	5.7		
			1510	Automobile Mechanics	15,173	19,322	4,149	27,3	1,300	1,543	243	18.7		
			1520	Aircraft Mechanics	3,737	3,970	233	6,2	55	54	-1	-1.8		
			2020	Agricultural Mechanics	1,242	1,480	238	19,2	75	84	9	12.0		
			2610	Heavy Equipment Repair	3,004	3,140	136	4,5	100	98	-2	-2.0		
			2620	Industrial Machinery Repair	31,841	33,642	1,801	5,7	4,010	3,867	-143	-3.6		
			2640	Automobile Body Repair	7,387	9,052	1,665	22,5	405	504	99	24.4		
			2650	Diesel Engine Repair	8,279	9,794	1,515	18,3	680	751	71	10.4		
			2660	Small Engine Repair	913	1,189	276	30,2	65	79	14	21.5		
			2670	Bicycle Repair	84	109	25	29,8	20	24	4	20.0		
			2780	Marine Maintenance/Repair	14,591	17,984	3,393	23,3	1,030	1,182	152	14.8		
Share of Total Employment in Year 2005														
Indiana														



Indiana



Area 6

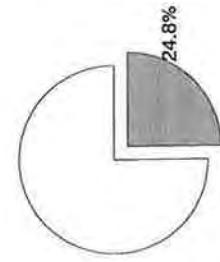
# Career Cluster: Business, Management & Finance

Projected  
Percent Growth  
1990 – 2005

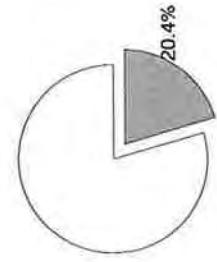
## Projections by Occupation

US	Projected Percent Growth 1990 – 2005	Occupation	Indiana						Area 6		
			Code	Description	Employment 1990	2005	Pct. Change	Employment 1990	2005	Pct. Change	
11.0	23.9	061 MANAGEMENT	154,056	187,894	33,838	22.0	10,440	12,277	1,837	17.6	
Indiana		2290 Food Service, Lodging Mgt.	10,628	14,183	3,555	33.4	815	1,016	201	24.7	
Area 6	17.4	2560 Public Administration	50,329	61,984	11,655	23.2	4,788	5,592	804	16.8	
		2890 Medical Services Management	3,455	5,190	1,735	50.2	—	—	—	—	
		2950 Business Management & Admin.	78,975	93,191	14,216	18.0	4,583	5,367	784	17.1	
		3020 Personnel Management	10,669	13,347	2,678	25.1	255	302	47	18.4	
		062 FINANCE	36,346	45,564	9,218	25.4	1,070	1,265	195	18.2	
		1850 Accounting, Financial Mgt.	34,806	43,430	8,624	24.8	990	1,161	171	17.3	
		2130 Securities Sales	1,540	2,134	594	38.6	80	104	24	30.0	
		063 SECRETARIES & STENO.	60,460	79,439	18,979	31.4	3,855	4,641	786	20.4	
		1620 Stenography	2,110	2,687	577	27.3	150	176	26	17.3	
		1860 Secretarial	54,395	71,272	16,877	31.0	3,705	4,465	760	20.5	
		1861 Legal Secretary	3,955	5,480	1,525	38.6	—	—	—	—	
		064 OTHER CLERICAL	314,285	387,477	73,192	23.3	16,810	19,583	2,773	16.5	
		1610 Medical Records	1,953	2,953	1,000	51.2	70	99	29	41.4	
		2900 Health Unit Coordinating	7,371	10,090	2,719	36.9	508	649	141	27.8	
		2960 Clerical Supervision	21,003	26,424	5,421	25.8	—	—	—	—	
		2980 Bookkeeping	50,137	62,903	12,766	25.5	3,575	4,183	608	17.0	
		2990 Office Clerical	197,164	240,232	43,068	21.8	10,483	12,178	1,695	16.2	
		3000 Data Entry	9,375	11,754	2,379	25.4	330	386	56	17.0	
		3010 Banking Support Services	21,528	26,068	4,540	21.1	1,580	1,784	204	12.9	
		3030 Computer Operation	5,755	7,053	1,298	22.6	265	303	38	14.3	

Share of Total Employment  
in Year 2005  
Indiana



Area 6



## Career Cluster: Building & Construction

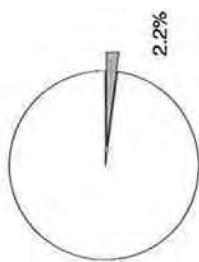
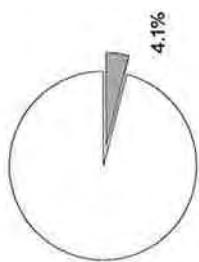
Projected  
Percent Growth  
1990 – 2005

		Occupation		Indiana		Area 6	
		Code	Description	Employment 1990	2005	Pct. Change	Pct. Change
US	<b>7.7</b>			94,815	116,388	22.8	3.580
Indiana	<b>22.8</b>	071	CONSTRUCTION	5,750	7,328	27.4	150
Area 6	<b>14.6</b>	1410	Bricklaying	12,771	16,345	28.0	538
		1420	Carpentry	10,820	12,033	11.2	598
		1430	Electrical Power	28,538	36,338	7,800	915
		1440	General Construction	5,648	7,207	1,559	400
		1441	Painting/Paperhanging	9,913	12,377	2,464	740
		1450	Plumbing	21,375	24,760	3,385	240
		2750	Const. Equipment Operation				
<b>Share of Total Employment in Year 2005</b>							
Indiana							
Area 6							

Share of Total Employment  
in Year 2005

Indiana

Area 6



## Career Cluster: Educational Services

### Projected Percent Growth 1990 – 2005

Occupation

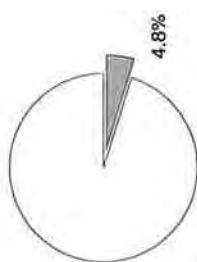
	<u>US</u>	<u>Indiana</u>	<u>Area 6</u>		
		<u>Employment 1990</u>	<u>2005</u>	<u>Change</u>	<u>Pct. Change</u>
Indiana	<b>46.9</b>	93,167	136,896	43,729	46.9
Area 6	<b>37.5</b>	5,775	8,506	2,731	47.3
		4,137	6,127	1,990	48.1
		27,887	41,269	13,382	48.0
		4,702	6,756	2,054	43.7
		982	1,344	362	36.9
		14,981	21,990	7,009	46.8
		1,895	2,680	785	41.4
		32,808	48,224	15,416	47.0
<b>Share of Total Employment in Year 2005</b>					
Indiana					

### Projections by Occupation

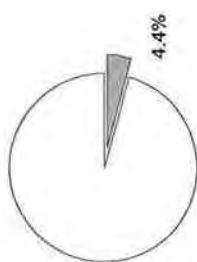
	<u>Code</u>	<u>Description</u>	<u>Employment 1990</u>	<u>2005</u>	<u>Change</u>	<u>Pct. Change</u>
081	EDUCATION		93,167	136,896	43,729	46.9
1060	Educational Administration		5,775	8,506	2,731	47.3
1070	Special Education		4,137	6,127	1,990	48.1
1090	Elementary Education		27,887	41,269	13,382	48.0
1100	Preschool Education		4,702	6,756	2,054	43.7
2230	Instructional Design		982	1,344	362	36.9
2320	Teaching Assisting		14,981	21,990	7,009	46.8
2330	Adult and Continuing Education		1,895	2,680	785	41.4
2340	Secondary & Vocational Educ.		32,808	48,224	15,416	47.0

Indiana

Area 6



Area 6



# Career Cluster: Health Services

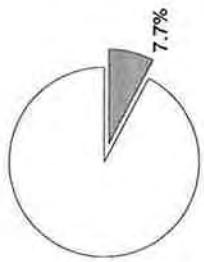
Projected  
Percent Growth  
1990 – 2005

Occupation

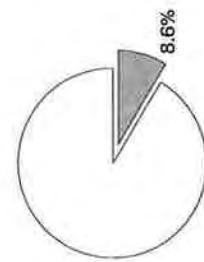
US	47.2	Code	Description	Pct. Change	Pct. Change	Pct. Change
Indiana	48.6			1990	2005	1990
Area 6	38.8	091	HEALTH DIAG. & TREAT	46,812	70,095	23,283
		1570	Other Health Diag., Treatment	519	792	273
		1580	Speech Pathology & Audiology	1,159	1,718	559
		1590	Dentistry	1,515	2,301	786
		1670	Physician Assisting	586	886	300
		1740	Medicine	6,418	9,323	2,905
		1750	Nursing	35,999	54,160	18,161
		1770	Optometry	414	631	217
		1790	Podiatry	170	255	85
		1840	Veterinary Medicine	32	29	-3
		092	HEALTH TECHNOLOGY	15,734	23,170	7,436
		1600	Dental Hygiene	1,679	2,561	882
		1631	Cardiology Technology	324	494	170
		1680	Laboratory Technology	4,529	6,849	2,320
		1681	Veterinary Asst./Technologies	2	2	0
		1690	Emergency Medical Technologies	3,233	4,195	962
		1700	Nuclear Medical Technologies	217	330	113
		1710	Radiological Technologies	3,003	4,551	1,548
		1730	Surgical Technology	1,102	1,682	580
		2880	Dental Laboratory	1,158	1,763	605
		2920	EKG	292	445	153
		2930	EEG	195	298	103
		093	HEALTH THERAPY	5,530	8,308	2,778
		1640	Occupational Therapy Assisting	173	262	89
		1660	Physical Therapy Assisting	805	1,210	405
		1720	Respiratory Therapy	1,593	2,424	831
		1800	All Other Therapy	573	822	249
		1810	Occupational Therapy	531	790	259
		1820	Physical Therapy	1,153	1,741	588

Share of Total Employment  
in Year 2005

Indiana



Area 6



## Projections by Occupation

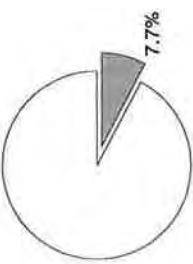
	Code	Description	Indiana			Area 6		
			Employment 1990	Employment 2005	Pct. Change	Employment 1990	Employment 2005	Pct. Change
	091	HEALTH DIAG. & TREAT	46,812	70,095	23,283	49.7	4,135	5,710
	1570	Other Health Diag., Treatment	519	792	273	52.6	20	28
	1580	Speech Pathology & Audiology	1,159	1,718	559	48.2	85	8
	1590	Dentistry	1,515	2,301	786	51.9	145	33
	1670	Physician Assisting	586	886	300	51.2	50	71
	1740	Medicine	6,418	9,323	2,905	45.3	545	739
	1750	Nursing	35,999	54,160	18,161	50.4	3,070	4,313
	1770	Optometry	414	631	217	52.4	75	107
	1790	Podiatry	170	255	85	50.0	10	14
	1840	Veterinary Medicine	32	29	-3	-9.4	135	114
	092	HEALTH TECHNOLOGY	15,734	23,170	7,436	47.3	1,145	1,589
	1600	Dental Hygiene	1,679	2,561	882	52.5	140	199
	1631	Cardiology Technology	324	494	170	52.5	-	59
	1680	Laboratory Technology	4,529	6,849	2,320	51.2	370	522
	1681	Veterinary Asst./Technologies	2	2	0	0.0	-	-
	1690	Emergency Medical Technologies	3,233	4,195	962	29.8	155	187
	1700	Nuclear Medical Technologies	217	330	113	52.1	-	-
	1710	Radiological Technologies	3,003	4,551	1,548	51.5	230	324
	1730	Surgical Technology	1,102	1,682	580	52.6	105	150
	2880	Dental Laboratory	1,158	1,763	605	52.2	100	142
	2920	EKG	292	445	153	52.4	35	50
	2930	EEG	195	298	103	52.8	10	14
	093	HEALTH THERAPY	5,530	8,308	2,778	50.2	475	669
	1640	Occupational Therapy Assisting	173	262	89	51.4	30	42
	1660	Physical Therapy Assisting	805	1,210	405	50.3	70	98
	1720	Respiratory Therapy	1,593	2,424	831	52.2	150	213
	1800	All Other Therapy	573	822	249	43.5	25	34
	1810	Occupational Therapy	531	790	259	48.8	35	49
	1820	Physical Therapy	1,153	1,741	588	51.0	95	134

## Career Cluster: Health Services (continued)

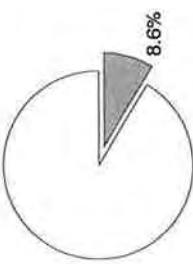
Projected  
Percent Growth  
1990 – 2005

### Forecast by Occupation

Occupation	Indiana			Area 6		
	Employment 1990	2005	Pct. Change	Employment 1990	2005	Pct. Change
US	47.2					
Indiana	48.6					
Area 6	38.8					
1830 Recreational Therapy	702	1,059	357	50.9	70	99
094 HEALTH ASSISTING	62,641	94,067	31,426	50.2	5,005	7,039
1760 LPN	13,651	20,571	6,920	50.7	1,230	1,731
2850 Mental/Phys. Health Assisting	1,076	1,498	422	39.2	—	—
2851 Psychiatric Assisting	5,751	8,719	2,968	51.6	170	240
2852 Nurse Assisting	30,306	45,541	15,235	50.3	3,065	4,301
2853 Home Health Assisting	4,073	6,027	1,954	48.0	—	—
2860 Community Health Work	1,076	1,498	422	39.2	—	—
2870 Dental Assisting	3,509	5,339	1,830	52.2	305	433
2910 Medical Assisting	3,200	4,874	1,674	52.3	235	334
095 OTHER HEALTH RELATED	15,389	21,501	6,112	39.7	725	938
1630 Misc. Health Services	6,300	8,996	2,696	42.8	175	226
1650 Pharmacy Support	2,471	3,434	963	39.0	85	115
1780 Pharmacy	4,919	6,622	1,703	34.6	325	409
2940 Optical Dispensing	1,699	2,449	750	44.1	140	188
Share of Total Employment in Year 2005						
Indiana						
Area 6						



Area 6



# Career Cluster: Personal & Commercial Services

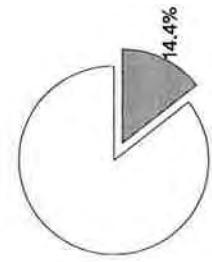
Projected  
Percent Growth  
1990–2005

## Projections by Occupation

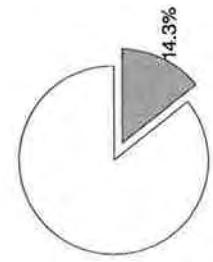
US	Projected Percent Growth 1990–2005	Occupation	Indiana			Area 6			Pct. Change
			Employment 1990	2005	Pct. Change	Employment 1990	2005	Pct. Change	
	30.1	Code	Description						
Indiana	33.7	101	PERSONAL SERVICES	12,275	16,385	4,110	33.5	805	995
Area 6	24.4	1050	Barbering/Cosmetology	11,386	15,151	3,765	33.1	805	995
		2270	Funeral Services	889	1,234	345	38.8	—	—
		102	PERSONAL CARE SERV.	6,394	9,039	2,645	41.4	730	944
		2400	Home Economics	346	487	141	40.8	10	13
		2410	Child Care	1,108	1,561	453	40.9	720	930
		2470	Home Assisting	4,940	6,991	2,051	41.5	—	—
		103	HOSPITALITY SERV.	19,518	25,260	5,742	29.4	251	293
		2170	Hospitality Services	16,523	21,958	5,435	32.9	136	174
		2190	Travel Services	2,839	3,138	299	10.5	115	120
		2740	Flight Attending	156	164	8	5.1	—	—
		104	CLEANING SERVICES	71,735	97,834	26,099	36.4	5,133	6,420
		2440	Laundry and Dry Cleaning	5,363	7,715	2,352	43.9	378	511
		2460	Housekeeping/Building Services	66,372	90,120	23,748	35.8	4,755	5,910
		105	FOOD SERVICES	166,268	222,191	55,923	33.6	12,905	16,133
		2280	Food Services	113,812	153,107	39,295	34.5	8,435	10,626
		2281	Bartending	4,870	6,557	1,687	34.6	750	943
		2310	Waiter/Waitress	47,586	62,527	14,941	31.4	3,720	4,564
		106	FOOD PREPARATION	28,451	36,713	8,262	29.0	1,510	1,756
		1270	Dietetics/Nutrition	1,403	2,077	674	48.0	115	158
		2282	Baking	3,330	4,364	1,034	31.1	—	—
		2283	Chef	16,132	21,216	5,084	31.5	930	1,142
		2300	Meatcutting and Butchering	7,586	9,056	1,470	19.4	465	455

Share of Total Employment  
in Year 2005

Indiana



Area 6



# Career Cluster: Legal, Social, Recreation Services

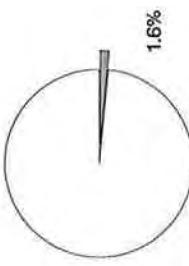
## Projections by Occupation

Projected  
Percent Growth  
1990 – 2005

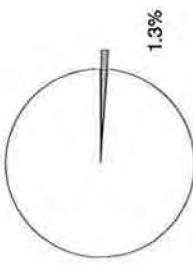
US	Indiana	Area 6	Occupation		Indiana		Area 6		Pct. Change			
			Code	Description	Employment 1990	2005	Pct. Change	Employment 1990	2005			
42.8	40.3	31.7	111	LEGAL SERVICES	8,754	11,416	2,662	30.4	640	801	161	25.2
			1280	Legal Services	6,839	8,821	1,982	29.0	500	622	122	24.4
			1290	Legal Assisting	1,915	2,595	680	35.5	140	179	39	27.9
			112	SOCIAL SERVICES	20,698	29,841	9,143	44.2	1,065	1,449	384	36.1
			1080	Counselling	2,113	3,068	955	45.2	185	251	66	35.7
			1380	Psychology	1,100	1,614	514	46.7	105	144	39	37.1
			1390	Social Work	4,278	5,850	1,572	36.7	—	—	—	—
			1391	Clinical/Medical Social Work	3,339	4,976	1,637	49.0	—	—	—	—
			2510	Recreation	5,080	7,159	2,079	40.9	315	412	97	30.8
			2520	Religious Education	4,475	6,713	2,238	50.0	385	539	154	40.0
			2530	Religion	313	461	148	47.3	75	103	28	37.3
			113	SOCIAL SCIENCE	2,688	3,849	1,161	43.2	55	68	13	23.6
			1030	Urban/Regional Planning	249	326	77	30.9	20	24	4	20.0
			1400	Economics	335	448	113	33.7	15	19	4	26.7
			2590	Undergraduate Social Sciences	2,104	3,075	971	46.2	20	25	5	25.0

Share of Total Employment  
in Year 2005

Indiana



Area 6



## Career Cluster: Protective Services

Projected  
Percent Growth  
1990 – 2005

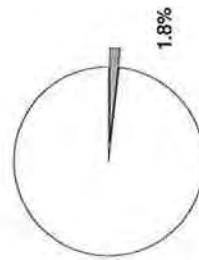
	<u>US</u>	<u>Indiana</u>	<u>Area 6</u>
	<u>Code</u>	<u>Description</u>	
	<b>54.0</b>		
Indiana	<b>31.1</b>	PUBLIC SAFETY	
		2550 Law Enforcement	
		2570 Security Services	
		2580 Fire Safety	
Area 6	<b>22.6</b>		

## Projections by Occupation

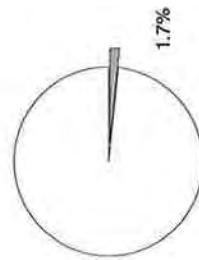
	<i>Indiana</i>			<i>Area 6</i>				
	<u>Employment</u> <u>1990</u>	<u>2005</u>	<u>Change</u>	<u>Pct.</u> <u>Change</u>	<u>Employment</u> <u>1990</u>	<u>2005</u>	<u>Change</u>	<u>Pct.</u> <u>Change</u>
	39,574	51,881	12,307	31.1	2,530	3,102	572	22.6
	20,356	26,597	6,241	30.7	1,220	1,495	275	22.5
	12,665	16,724	4,059	32.0	810	997	187	23.1
	6,553	8,560	2,007	30.6	500	610	110	22.0

Share of Total Employment  
in Year 2005

Indiana



Area 6



## Career Cluster: Marketing, Sales & Promotion

### Projections by Occupation

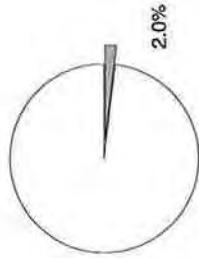
			Occupation						Indiana						Area 6							
			<u>Code</u>		<u>Description</u>		<u>Employment 1990</u>		<u>2005</u>		<u>Change</u>		<u>Pct. Change</u>		<u>Employment 1990</u>		<u>2005</u>		<u>Change</u>		<u>Pct. Change</u>	
US	Indiana	Area 6	131	MARKETING/ADVERTISING	13,053	15,858	2,805	21.5	140	169	29	20.7	13,053	15,858	2,805	21.5	140	169	29	20.7		
			22220	Marketing/Adv./Pub. Relations	13,053	15,858	2,805	21.5	140	169	29	20.7	13,053	15,858	2,805	21.5	140	169	29	20.7		
			132	MKTG. SALES & DISTB.	275,925	347,749	71,824	26.0	17,837	21,622	3,785	21.2	275,925	347,749	71,824	26.0	17,837	21,622	3,785	21.2		
			1870	Real Estate	4,377	5,958	1,581	36.1	165	209	44	26.7	4,377 <td>5,958</td> <td>1,581</td> <td>36.1</td> <td>165</td> <td>209</td> <td>44</td> <td>26.7</td>	5,958	1,581	36.1	165	209	44	26.7		
			2110	Fashion Merchandising	31,764	38,755	6,991	22.0	1,443	1,680	237	16.4	31,764 <td>38,755</td> <td>6,991</td> <td>22.0</td> <td>1,443</td> <td>1,680</td> <td>237</td> <td>16.4</td>	38,755	6,991	22.0	1,443	1,680	237	16.4		
			2120	Sales	147,858	185,222	37,364	25.3	8,681	10,708	2,027	23.3	147,858 <td>185,222</td> <td>37,364</td> <td>25.3</td> <td>8,681</td> <td>10,708</td> <td>2,027</td> <td>23.3</td>	185,222	37,364	25.3	8,681	10,708	2,027	23.3		
			2150	Food Marketing	66,731	85,375	18,644	27.9	4,335	5,171	836	19.3	66,731 <td>85,375</td> <td>18,644</td> <td>27.9</td> <td>4,335</td> <td>5,171</td> <td>836</td> <td>19.3</td>	85,375	18,644	27.9	4,335	5,171	836	19.3		
			2160	Purchasing	5,354	6,059	705	13.2	415	444	29	7.0	5,354 <td>6,059</td> <td>705</td> <td>13.2</td> <td>415</td> <td>444</td> <td>29</td> <td>7.0</td>	6,059	705	13.2	415	444	29	7.0		
			2180	Insurance	9,841	13,421	3,580	36.4	2,130	2,584	454	21.3	9,841 <td>13,421</td> <td>3,580</td> <td>36.4</td> <td>2,130</td> <td>2,584</td> <td>454</td> <td>21.3</td>	13,421	3,580	36.4	2,130	2,584	454	21.3		
			2220	Automobile Sales/Service	10,001	12,960	2,959	29.6	668	826	158	23.7	10,001	12,960	2,959	29.6	668	826	158	23.7		

## Career Cluster: Transportation & Material Moving

## Projections by Occupation

		Occupation		Indiana		Area 6		Pct. Change
		Code	Description	Employment 1990	2005	Change	Pct. Change	
US	20.7							
Indiana	18.6	141	LAND TRANSPORTATION	45,862	54,703	8,841	19.3	3,043
Area 6	11.8	2760	Truck and Bus Driving	45,862	54,703	8,841	19.3	3,043
		142	AIR/SEA TRANSPORT.	1,541	1,512	-29	-1.9	70
		1550	Airplane Piloting	356	377	21	5.9	30
		1560	Air Traffic Control	830	761	-69	-8.3	40
		2770	Water Transportation	355	374	19	5.4	-

Share of Total Employment  
in Year 2005



Area 6

