

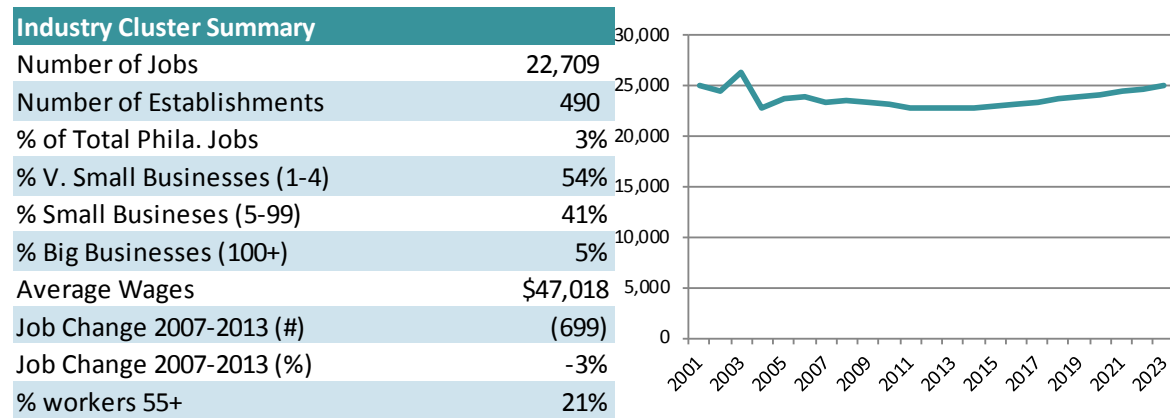
## Industry Profiles – Logistics & Transportation

**The Logistics & Transportation** cluster includes industries related to the storage, transportation and distribution of goods. This cluster includes all modes of transport, including airlines, railroads, shipping and trucking companies, as well as logistics consulting and other supporting industries. In addition to moving goods, the cluster also contains industries related to passenger transportation: taxi services, charter buses, motor vehicle towing and scheduled passenger air transportation<sup>1</sup>.

This report presents an overview of employment trends. We examine how Logistics & Transportation has changed since 2007, the year before the Great Recession had an impact. Then, we examine the composition of the industry cluster by size of businesses and highlight clusters with the largest share of smaller businesses. The section on workers demographics shows the composition of industry clusters by gender, age, and education. Finally, we look at the major occupations that support industry clusters.

- Logistics & Transportation accounted for 3 percent of jobs in 2013. The cluster declined 3 percent since 2007.

### SUMMARY OF LOGISTICS & TRANSPORTATION INDUSTRY CLUSTER IN PHILADELPHIA



<sup>1</sup> Descriptions of industry clusters are borrowed directly from the State report. The full report can be found here: <http://www.portal.state.pa.us/portal/server.pt/community/products/19738>

## % CHANGE IN EMPLOYMENT IN LOGISTICS & TRANSPORTATION IN PHILADELPHIA VS. PA AND U.S. AND VS. ALL INDUSTRIES



Source: Philadelphia Works analysis of the QCEW Employees & Non-QCEW Employees - EMSI 2013.4 Class of Worker data

## Industry Highlights

- Scheduled Passenger Air Transportation; General Warehousing and Storage; Couriers and Express Delivery Services; Rail Transportation; and Passenger Car Rental industries are top industries in Logistics & Transportation.
- Among top industries, Packing and Crating; Special Needs Transportation; and Scheduled Passenger Air Transportation added the highest number of jobs since 2007. Process, Physical Distribution, and Logistics Consulting Services; Other Airport Operations; and Freight Transportation Arrangement industries lost the most jobs since 2007.
- The difference between expected change (determined from the national trends) and actual change can be seen as competitive effect – growth or decline attributed to local factors. Scheduled Passenger Air Transportation; Packing and Crating; and Couriers and Express Delivery Services grew due to unique regional factors.
- Wages in the Logistics & Transportation industry cluster in Philadelphia are similar to wages in Pennsylvania. Process, Physical Distribution, & Logistics Consulting Services; and Rail Transportation industries pay wages higher than industry average. Other Airport Operations; All Other Transit and Ground Passenger Transportation; Special Needs Transportation; Passenger Car Rental; and General Warehousing Operations paid lower wages.

**TOP INDUSTRIES IN LOGISTICS & TRANSPORTATION IN PHILADELPHIA**

Industry	Jobs 2013	% Change 2007-2013	Change	Expected Change	Competitive Effect	Wages
Scheduled Passenger Air Transportation	8,629	▲ 14.1%	1,068	(683)	1,751	\$50,908
General Warehousing and Storage	3,032	▬ -4.0%	(125)	117	(241)	\$35,348
Couriers and Express Delivery Services	1,839	▬ 3.0%	53	(198)	252	\$49,605
Rail Transportation	1,381	▼ -5.2%	(75)	45	(120)	\$87,313
Passenger Car Rental	1,154	▬ -0.3%	(4)	(152)	147	\$33,925
Special Needs Transportation	985	▲ 26.0%	203	269	(66)	\$29,106
Marine Cargo Handling	764	▼ -8.6%	(72)	7	(79)	\$48,427
Freight Transportation Arrangement	729	▼ -19.4%	(175)	14	(189)	\$59,093
Packing and Crating	454	▲ 213.1%	309	(12)	322	\$14,081
Other Airport Operations	411	▼ -68.6%	(898)	(23)	(876)	\$20,789
All Other Transit and Ground Passenger Transportation	386	▲ 56.9%	140	79	61	\$26,723
Process, Physical Distribution, and Logistics Consulting Services	358	▼ -64.4%	(649)	184	(834)	\$97,309

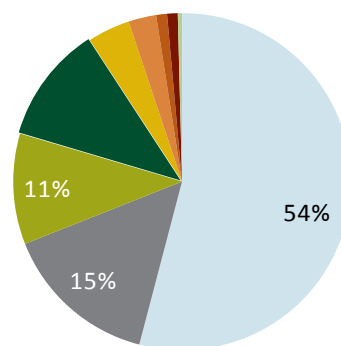
Source: Philadelphia Works analysis of the QCEW Employees & Non-QCEW Employees - EMSI 2013.4 Class of Worker data

**Employers in Logistics & Transportation**

- Approximately 500 businesses make up Logistics & Transportation industry cluster. “Very small businesses” businesses (1-4 employees) represent 54 percent of establishments in the cluster. “Small businesses” (5-99 employees) make up 41 percent of employers in the cluster.
- Interurban and Rural Bus Transportation; Deep Sea, Coastal, and Great Lakes Water Transportation; Support Activities for Air Transportation; Automotive Equipment Rental and Leasing; and Warehousing and Storage industries had the largest share of “small business” (5-99 employees). Other Support Activities for Transportation; Scheduled Air Transportation; and Support Activities for Water Transportation had a larger share of medium and larger employers.

**EMPLOYERS IN LOGISTICS & TRANSPORTATION BY SIZE (PERCENT OF TOTAL EMPLOYERS)**

Size	In Industry	in Phila
1-4	54%	60%
5-9	15%	15%
10-19	11%	11%
20-49	11%	8%
50-99	4%	3%
100-249	3%	2%
250-499	1.0%	0.5%
500-999	1.0%	0.2%
1000 & Over	0.4%	0.1%
Total	100%	100%



Source: PA Employer Database 2013

**TOP EMPLOYERS IN LOGISTICS & TRANSPORTATION**

NBC PHILADELPHIA MERCHANTS	FEDERAL EXPRESS CORP
US AIRWAYS INC	THE HERTZ CORPORATION
B.E.S.T. PACKING SERVICES INC	AMERICAN AIRLINES INC
CARDONE INDUSTRIES INC	AMERICAN EAGLE AIRLINES INC
MID ATLANTIC COCA COLA BOTTLING COM	AMERICAN EXPEDITING CO INC
UNITED PARCEL SERVICE INC	DLC TRANSPORTATION SERVICES INC
PIEDMONT AIRLINES INCORPORATED	ENTERPRISE LEASING CO OF PHILA LLC
BDP INTERNATIONAL INC	FEDEX GROUND PACKAGE SYSTEM INC
GREENWICH TERMINALS LLC	GREYHOUND LINES INC
SOUTHWEST AIRLINES COMPANY	HAMBURG SUD NORTH AMERICA INC
FEDERAL EXPRESS CORP	HORIZON STEVEDORING INC
AIR WISCONSIN AIRLINES CORP/US AIRWAYS EXPRESS	LEAHY TRANSPORTATION INC
AB CAR RENTAL SERVICES INC	PROFESSIONAL TRANSPORTATION INC
DAL GLOBAL SERVICES LLC	STAR TRANSPORTATION SERVICE LLC
DELAWARE RIVER STEVEDORES INC	SUPERIOR MOVING & STORAGE INC
DELTA AIRLINES INC	TOWERS WATSON DELAWARE INC
FEDEX GROUND PACKAGE SYSTEM INC	TRI STATE INTERMODAL INC
OZBURN HESSEY LOGISTICS LLC	BUDGET RENT A CAR SYSTEM INC
PHILLY AUTO LABOR SERVICES LLC	DHL WORLDWIDE EXPRESS USA INC
UNITED AIR LINES INC	GENERAL DYNAMICS
WORLDWIDE FLIGHT SERVICES	AVIS RENT A CAR SYSTEM INC
XTL INC	THRIFTY CAR RENTAL
ALAMO, ENTERPRISE, NATIONAL	

Source: PA Employer Database 2013

## Worker Demographics

Workforce demographics are examined by gender, age, and education of workers.

### Gender of Workers in Logistics & Transportation

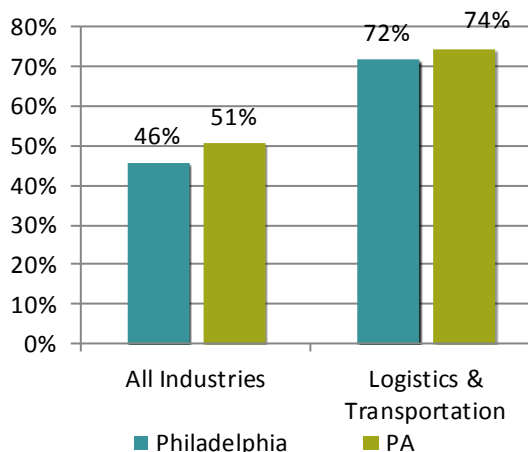
- There are more men (72 percent) than women employed in the Logistics & Transportation industry cluster, similar to the gender breakdown in Pennsylvania.
- Men represented 8 out of 10 employees in Support Activities for Water Transportation; General Freight Trucking; Specialized Freight Trucking; and Couriers and Express Delivery Services, which is above the industry cluster average. Gender split was even in Freight Transportation Arrangement; Taxi and Limousine Service; and Other Support Activities for Transportation.

### GENDER OF WORKERS IN 2013Q1+3 PREVIOUS QUARTERS

#### % MEN EMPLOYED IN LOGISTICS & TRANSPORTATION IN PHILADELPHIA

	% men
Support Act. for Water Trans.	93%
General Freight Trucking	91%
Specialized Freight Trucking	89%
Couriers	80%
Interurban & Rural Bus Transp.	76%
Auto. Equip. Rental & Leasing	75%
Logistics & Transportation	72%
Support Act. for Air Trans.	68%
Warehousing & Storage	64%
Other Ground Passenger Transp.	64%
Scheduled Air Transp.	63%
Other Support Act. for Trans.	56%
Freight Transp. Arrang.	51%
Taxi & Limousine Svc	49%
All Industries	46%

#### % MEN EMPLOYED BY CLUSTER AND GEOGRAPHY



Source: Philadelphia Works Analysis of Quarterly Workforce Indicators data.

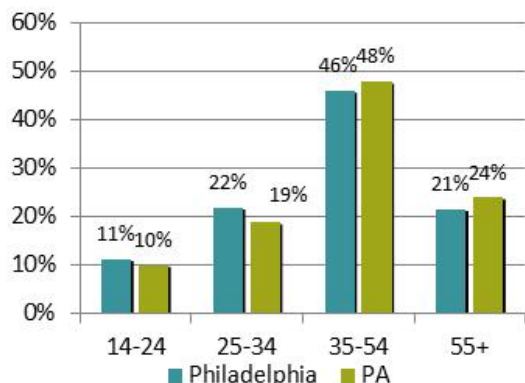
### Age of Workers in Logistics & Transportation

- The majority of workers in Logistics & Transportation are middle aged – ages from 35 to 54. The share of older workers in the cluster (21 percent) is similar to the age of workers across all industries and in Pennsylvania.
- Couriers and Express Delivery Services and Other Support Activities for Transportation employ a larger share of younger workers. Support Activities for Water Transportation; Interurban and

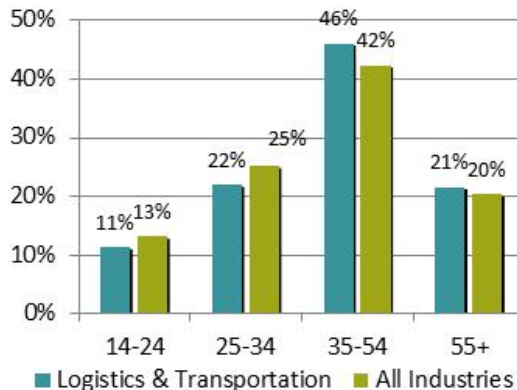
Rural Bus Transportation; General Freight Trucking; and Warehousing and Storage employ more older workers.

**AGE OF WORKERS IN 2013Q1+3 PREVIOUS QUARTERS:**

**EMPLOYED IN LOGISTICS & TRANSPORTATION IN PHILADELPHIA VS. PA**



**EMPLOYED IN LOGISTICS & TRANSPORTATION VS. ALL INDUSTRIES IN PHILADELPHIA**



Source: Philadelphia Works Analysis of Quarterly Workforce Indicators data.

**TOP INDUSTRIES IN LOGISTICS & TRANSPORTATION IN PHILADELPHIA BY AGE OF WORKERS IN 2013Q1+3 PREVIOUS QUARTERS**

Industry/Age	14-24	25-54	55+	Total	# Employed
Warehousing & Storage	6.1%	67.3%	26.6%	100%	4,393
Couriers	17.3%	67.7%	15.1%	100%	4,250
Scheduled Air Transp.	14.3%	70.9%	14.7%	100%	2,149
Auto. Equip. Rental & Leasing	13.9%	62.2%	23.9%	100%	1,442
Support Act. for Water Trans.	5.7%	59.3%	35.0%	100%	1,045
Other Ground Passenger Transp.	10.1%	67.5%	22.4%	100%	1,016
Freight Transp. Arrang.	11.3%	73.0%	15.7%	100%	993
General Freight Trucking	1.6%	70.7%	27.7%	100%	775
Support Act. for Air Trans.	12.9%	68.1%	19.1%	100%	420
Specialized Freight Trucking	7.7%	79.3%	13.0%	100%	316
Other Support Act. for Trans.	17.5%	63.5%	19.0%	100%	256
Interurban & Rural Bus Transp.	8.8%	58.7%	32.5%	100%	245
Taxi & Limousine Svc	13.4%	62.1%	24.5%	100%	187
<b>Logistics &amp; Transportation</b>	<b>11%</b>	<b>68%</b>	<b>21%</b>	<b>100%</b>	<b>18,038</b>
<b>All Industries</b>	<b>13%</b>	<b>67%</b>	<b>20%</b>	<b>100%</b>	<b>558,394</b>

Source: Philadelphia Works Analysis of Quarterly Workforce Indicators data.

### Education of Workers in Logistics & Transportation

- Most workers in Logistics and Transportation have a high school diploma (29 percent) or an Associate’s degree (28 percent). Education of Philadelphia workers in the industry cluster is similar to those in PA.
- Educational attainment did not vary much by industries making up the cluster – most of the industries hired workers without a Bachelor’s degree.

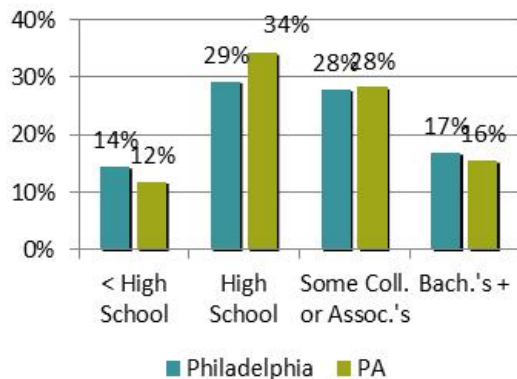
### TOP INDUSTRIES IN LOGISTICS & TRANSPORTATION IN PHILADELPHIA BY EDUCATION OF WORKERS IN 2013Q1+3 PREVIOUS QUARTERS:

Industry/Education	< High School	High School	Some College or Assoc.'s	Bach.'s +	Unknown	Total	# Employed
Warehousing & Storage	19.6%	26.8%	26.3%	21.2%	6.1%	100%	4,393
Couriers	11.1%	30.1%	28.2%	13.3%	17.3%	100%	4,250
Scheduled Air Transp.	11.9%	29.3%	29.0%	15.4%	14.4%	100%	2,149
Auto. Equip. Rental & Leasing	14.1%	27.9%	28.2%	15.7%	14.0%	100%	1,442
Support Act. for Water Trans.	14.3%	31.4%	30.8%	17.7%	5.8%	100%	1,045
Other Ground Passenger Transp.	18.1%	32.0%	27.9%	11.8%	10.1%	100%	1,016
Freight Transp. Arrang.	9.6%	27.6%	28.4%	23.0%	11.5%	100%	993
General Freight Trucking	11.3%	36.8%	30.9%	19.0%	2.0%	100%	775
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Taxi & Limousine Svc	15.6%	26.9%	26.3%	17.5%	13.7%	100%	187
<b>Logistics &amp; Transportation</b>	<b>14.5%</b>	<b>29.4%</b>	<b>28.0%</b>	<b>16.9%</b>	<b>11.2%</b>	<b>100%</b>	<b>18,038</b>
<b>All Industries</b>	<b>10.0%</b>	<b>21.4%</b>	<b>26.2%</b>	<b>29.5%</b>	<b>12.9%</b>	<b>100%</b>	<b>558,394</b>

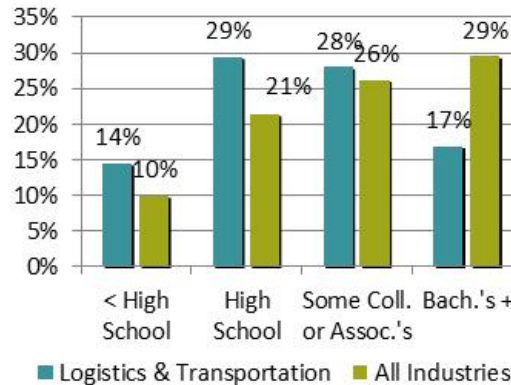
Source: Philadelphia Works Analysis of Quarterly Workforce Indicators data.

### EDUCATION OF WORKERS IN 2013Q1+3 PREVIOUS QUARTERS:

**% EMPLOYED IN LOGISTICS & TRANSPORTATION IN PHILADELPHIA VS. PA**



**% EMPLOYED IN LOGISTICS & TRANSPORTATION VS. ALL INDUSTRIES IN PHILADELPHIA**



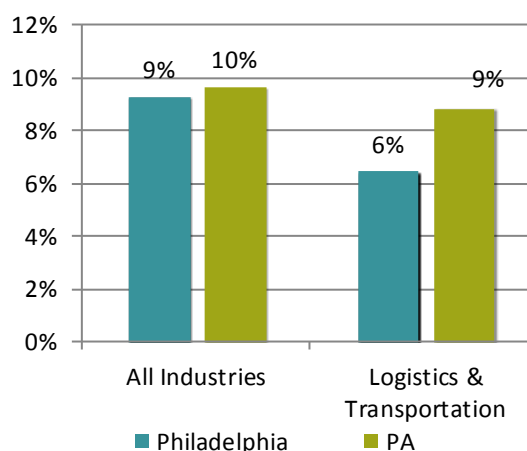
Source: Philadelphia Works Analysis of Quarterly Workforce Indicators data. Education attainment is not available for workers under 25 – this category is not shown.

## Turnover in Logistics & Transportation

- Turnover rates help us evaluate the churning in the labor force – average number of separations and hires for the industry group. The rate shows what percentage of the labor force is new.
- Turnover rates in Logistics & Transportation in Philadelphia (6 percent) was below turnover in Pennsylvania.
- Among industries making up the cluster, Other Support Activities for Transportation had the highest turnover rate - at 24 percent.

### TURNOVER RATES IN LOGISTICS & TRANSPORTATION PHILADELPHIA IN 2012Q3 (FOUR QUARTER MOVING AVERAGE)

Industry/Turnover Rate	Turnover
Other Support Act. for Trans.	24%
Other Ground Passenger Transp.	11%
Specialized Freight Trucking	10%
Taxi & Limousine Svc	10%
All Industries	9%
Scheduled Air Transp.	9%
Auto. Equip. Rental & Leasing	8%
Support Act. for Air Trans.	8%
Support Act. for Water Trans.	8%
General Freight Trucking	6%
Logistics & Transportation	6%
Freight Transp. Arrang.	5%
Warehousing & Storage	5%
Couriers	5%
Interurban & Rural Bus Transp.	4%



Source: Philadelphia Works Analysis of Quarterly Workforce Indicators data.

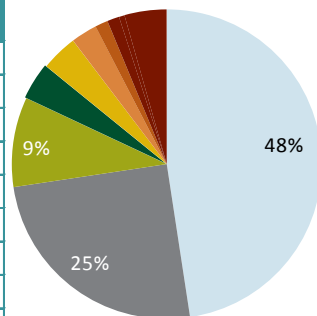
## Occupation Highlights

- Staffing patterns analysis was used to identify occupations that are needed in the industry. Transportation; Office and Administrative Support; and Installation, Maintenance, and Repair are top occupational families supporting the Logistics & Transportation industry cluster. These families accounted for 82 percent of all workers in the cluster.
- 53 percent of jobs in Logistics & Transportation required only short-term on-the-job training. 18 percent of jobs required a postsecondary credential.



### TOP OCCUPATIONAL FAMILIES IN LOGISTICS & TRANSPORTATION INDUSTRY CLUSTER

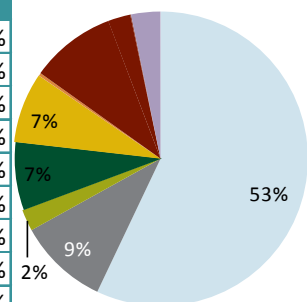
Occupational Family	Jobs 2007	Jobs 2013	Change %	% of 2013 Jobs
Transportation	10,728	10,808	1%	48%
Office and admin. support	5,733	5,682	-1%	25%
Installation, maint., and repair	2,281	2,129	-7%	9%
Business and financial operations	980	881	-10%	4%
Sales and related	902	865	-4%	4%
Management	705	622	-12%	3%
Comp. and mathematical	334	305	-9%	1%
Production	312	285	-9%	1%
Personal care and service	190	133	-30%	1%
Unidentified + Other	1,243	999	-20%	4%
Total	23,408	22,709	-3%	100%



Source: Philadelphia Works analysis of the QCEW Employees & Non-QCEW Employees - EMSI 2013.4 Class of Worker data

### EDUCATION REQUIRED OF WORKERS IN LOGISTICS & TRANSPORTATION INDUSTRY CLUSTER

Skill	Jobs 2007	Jobs 2013	Change %	% of 2013 Jobs
Short-term on-the-job training	12,316	11,984	-3%	53%
Moderate-term on-the-job training	3,698	3,781	2%	9%
Long-term on-the-job training	505	500	-1%	2%
Work experience in a related occupation	1,586	1,574	-1%	7%
Postsecondary non-degree award	1,755	1,624	-7%	7%
Associate's degree	69	66	-4%	0%
Bachelor's degree	1,918	1,968	3%	9%
Bachelor's or higher degree, plus work experience	654	519	-21%	2%
Master's degree +	18	17	-6%	0%
Unidentified	889	676	n/a	3%
Total	23,408	22,709	-3%	100%



Source: Philadelphia Works analysis of the QCEW Employees & Non-QCEW Employees - EMSI 2013.4 Class of Worker data

Top occupations in the cluster are shown in the tables below. Highlighted occupations are Philadelphia 2013 High Priority Occupations important to the Logistics & Transportation industry cluster. Wage data are not industry specific and describe all workers in the occupation.

**TOP OCCUPATIONS IN LOGISTICS & TRANSPORTATION**

SOC	Occupation	Jobs 2013	% Change from 2007	Entry-Level Earnings	Median Hourly Earnings	% of the Total Jobs in Cluster
<b>Limited Skills Required</b>						
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	2,630	0%	\$8.31	\$12.60	11.6%
43-4181	Reservation and Transportation Ticket Agents and Travel Clerks	1,316	10%	\$9.94	\$14.80	5.8%
53-3032	Heavy and Tractor-Trailer Truck Drivers	995	(21%)	\$13.74	\$19.39	4.4%
53-3033	Light Truck or Delivery Services Drivers	802	(5%)	\$8.76	\$15.06	3.5%
43-4051	Customer Service Representatives	739	0%	\$11.28	\$17.30	3.3%
43-5011	Cargo and Freight Agents	666	1%	\$10.89	\$18.92	2.9%
53-3041	Taxi Drivers and Chauffeurs	604	33%	\$8.55	\$11.06	2.7%
41-2021	Counter and Rental Clerks	413	(1%)	\$8.28	\$12.06	1.8%
43-5081	Stock Clerks and Order Fillers	410	(3%)	\$7.70	\$10.10	1.8%
53-7051	Industrial Truck and Tractor Operators	390	(7%)	\$10.79	\$15.81	1.7%
43-5071	Shipping, Receiving, and Traffic Clerks	368	(4%)	\$9.34	\$14.52	1.6%
43-9061	Office Clerks, General	362	(10%)	\$8.72	\$14.76	1.6%
53-7064	Packers and Packagers, Hand	334	25%	\$7.26	\$9.76	1.5%
53-7061	Cleaners of Vehicles and Equipment	199	(11%)	\$7.25	\$9.22	0.9%
41-3099	Sales Representatives, Services, All Other	197	(13%)	\$13.40	\$28.58	0.9%
43-6014	Secretaries and Administrative Assistants, Except Legal, Medical, and Executive	163	(23%)	\$10.32	\$16.61	0.7%
53-6061	Transportation Attendants, Except Flight Attendants	148	(3%)	\$7.89	\$8.79	0.7%
39-6011	Baggage Porters and Bellhops	133	(30%)	\$8.55	\$10.16	0.6%
43-4199	Information and Record Clerks, All Other	120	11%	\$14.29	\$19.94	0.5%
53-6099	Transportation Workers, All Other	117	(16%)	\$16.28	\$20.20	0.5%
37-2011	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	80	(15%)	\$9.18	\$13.78	0.4%
43-3021	Billing and Posting Clerks	77	(9%)	\$12.60	\$17.12	0.3%
43-5021	Couriers and Messengers	75	(13%)	\$10.20	\$14.20	0.3%
53-7063	Machine Feeders and Offbearers	66	0%	\$8.15	\$12.90	0.3%
53-7011	Conveyor Operators and Tenders	62	(2%)	\$10.59	\$15.43	0.3%
53-7121	Tank Car, Truck, and Ship Loaders	59	(14%)	\$13.39	\$24.57	0.3%
53-6021	Parking Lot Attendants	49	(2%)	\$7.87	\$9.96	0.2%
43-4151	Order Clerks	46	(12%)	\$7.75	\$12.58	0.2%
53-6051	Transportation Inspectors	43	(4%)	\$24.93	\$44.32	0.2%
33-9032	Security Guards	33	(11%)	\$8.40	\$11.17	0.1%
43-4171	Receptionists and Information Clerks	33	(13%)	\$9.48	\$14.34	0.1%
41-2031	Retail Salespersons	32	7%	\$7.59	\$10.43	0.1%
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	30	(3%)	\$12.52	\$19.05	0.1%
53-3031	Driver/Sales Workers	30	(14%)	\$7.30	\$8.79	0.1%
53-5011	Sailors and Marine Oilers	30	(23%)	\$10.14	\$15.29	0.1%
53-7199	Material Moving Workers, All Other	30	(12%)	\$13.53	\$22.52	0.1%

**TOP OCCUPATIONS IN LOGISTICS & TRANSPORTATION, CONTINUED**

SOC	Occupation	Jobs 2013	% Change from 2007	Entry-Level Earnings	Median Hourly Earnings	% of the Total Jobs in Cluster
<b>Some Training or Experience</b>						
53-2031	Flight Attendants	1,021	10%	\$11.73	\$16.99	4.5%
43-1011	First-Line Supervisors of Office and Administrative Support Workers	511	4%	\$16.73	\$27.43	2.3%
53-3021	Bus Drivers, Transit and Intercity	408	3%	\$12.27	\$14.71	1.8%
53-3022	Bus Drivers, School or Special Client	346	30%	\$12.05	\$20.08	1.5%
49-9071	Maintenance and Repair Workers, General	249	(6%)	\$11.66	\$17.56	1.1%
53-1031	First-Line Supervisors of Transportation and Material-Moving Machine and Vehicle Operators	243	0%	\$15.31	\$28.61	1.1%
53-4031	Railroad Conductors and Yardmasters	243	(3%)	\$18.61	\$26.35	1.1%
53-4011	Locomotive Engineers	225	(3%)	\$17.67	\$25.39	1.0%
43-5032	Dispatchers, Except Police, Fire, and Ambulance	210	1%	\$12.05	\$18.01	0.9%
53-1021	First-Line Supervisors of Helpers, Laborers, and Material Movers, Hand	196	5%	\$14.93	\$24.38	0.9%
43-3031	Bookkeeping, Accounting, and Auditing Clerks	181	(13%)	\$12.41	\$19.49	0.8%
49-1011	First-Line Supervisors of Mechanics, Installers, and Repairers	146	(8%)	\$22.24	\$33.40	0.6%
43-5061	Production, Planning, and Expediting Clerks	145	(1%)	\$11.52	\$21.90	0.6%
11-3071	Transportation, Storage, and Distribution Managers	144	(3%)	\$23.99	\$44.43	0.6%
53-4021	Railroad Brake, Signal, and Switch Operators	141	(7%)	\$15.82	\$27.22	0.6%
13-1199	Business Operations Specialists, All Other	110	(8%)	\$21.25	\$36.54	0.5%
53-3011	Ambulance Drivers and Attendants, Except Emergency Medical Technicians	104	39%	\$9.37	\$12.66	0.5%
41-4012	Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	92	(7%)	\$14.20	\$25.51	0.4%
41-1011	First-Line Supervisors of Retail Sales Workers	78	0%	\$13.22	\$20.70	0.3%
49-3043	Rail Car Repairers	78	1%	\$12.46	\$20.94	0.3%
43-6011	Executive Secretaries and Executive Administrative Assistants	76	(13%)	\$18.41	\$25.27	0.3%
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	73	(3%)	\$19.47	\$29.89	0.3%
47-4061	Rail-Track Laying and Maintenance Equipment Operators	65	(7%)	\$13.25	\$19.81	0.3%
49-9041	Industrial Machinery Mechanics	65	18%	\$14.77	\$20.74	0.3%
51-4041	Machinists	59	(3%)	\$13.53	\$19.19	0.3%
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	50	(23%)	\$11.97	\$18.38	0.2%
11-3011	Administrative Services Managers	42	(9%)	\$26.51	\$49.01	0.2%
53-7021	Crane and Tower Operators	41	(5%)	\$19.42	\$26.86	0.2%
43-3051	Payroll and Timekeeping Clerks	36	(5%)	\$14.98	\$19.92	0.2%
49-9098	Helpers--Installation, Maintenance, and Repair Workers	36	(8%)	\$9.24	\$11.57	0.2%

**TOP OCCUPATIONS IN LOGISTICS & TRANSPORTATION, CONTINUED**

SOC	Occupation	Jobs 2013	% Change from 2007	Entry-Level Earnings	Median Hourly Earnings	% of the Total Jobs in Cluster
<b>Some College or Associate's</b>						
49-3011	Aircraft Mechanics and Service Technicians	1,091	(6%)	\$15.32	\$23.09	4.8%
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	184	(5%)	\$15.18	\$20.82	0.8%
49-3023	Automotive Service Technicians and Mechanics	112	(7%)	\$9.80	\$17.70	0.5%
53-2012	Commercial Pilots	89	(10%)	\$21.08	\$39.54	0.4%
15-1151	Computer User Support Specialists	51	(6%)	\$13.64	\$19.76	0.2%
51-4121	Welders, Cutters, Solderers, and Brazers	48	(14%)	\$12.33	\$18.79	0.2%
49-9097	Signal and Track Switch Repairers	42	(7%)	\$16.65	\$22.10	0.2%
49-2093	Electrical and Electronics Installers and Repairers, Transportation Equipment	36	(12%)	\$14.15	\$21.53	0.2%
49-2091	Avionics Technicians	22	(39%)	\$17.40	\$22.97	0.1%
<b>Bachelor's or Higher</b>						
53-2011	Airline Pilots, Copilots, and Flight Engineers	987	15%	\$30.65	\$55.37	4.3%
11-1021	General and Operations Managers	208	(20%)	\$28.37	\$56.04	0.9%
13-2011	Accountants and Auditors	139	(12%)	\$21.15	\$34.46	0.6%
13-1111	Management Analysts	118	(35%)	\$24.94	\$42.78	0.5%
13-1161	Market Research Analysts and Marketing Specialists	103	(4%)	\$16.58	\$30.14	0.5%
13-1151	Training and Development Specialists	87	9%	\$15.59	\$27.56	0.4%
13-1081	Logisticians	85	6%	\$21.86	\$32.98	0.4%
53-5021	Captains, Mates, and Pilots of Water Vessels	70	(15%)	\$11.56	\$18.12	0.3%
13-1071	Human Resources Specialists	69	(12%)	\$18.34	\$29.86	0.3%
15-1121	Computer Systems Analysts	64	(6%)	\$25.40	\$41.04	0.3%
15-1142	Network and Computer Systems Administrators	62	(2%)	\$25.37	\$39.00	0.3%
13-2051	Financial Analysts	47	(4%)	\$22.33	\$35.63	0.2%
11-2022	Sales Managers	45	(4%)	\$31.45	\$58.48	0.2%

Source: Philadelphia Works analysis of the QCEW Employees & Non-QCEW Employees - EMSI 2013.4 Class of Worker data

## Notes on Data

We followed industry cluster definitions proposed by the Center for Workforce Information & Analysis. Some industries that have a low number of jobs in Philadelphia County were excluded from the analysis and PA industry clusters were formed in the same way to make comparisons possible.

All the wage, employment, and staffing patterns data in this report come from the EMSI 2013.4 Class of Worker Data. EMSI industry data have various sources including the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns and Current Employment Statistics. Non-QCEW employee data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics.

Philadelphia Works worked with the Quarterly Workforce Indicators data available through the U.S. Census and defined the industry clusters at the four-digit NAICS code level. An industry group was assigned to a cluster if most of the employment fell in that cluster. Because the data are cyclical, the quarterly data were smoothed using a simple moving average. This report shows the data for the third quarter of 2012 plus three previous quarters.

The PA Employer Database available through the Center for Workforce Information & Analysis was used to report on the employers by size.