

SUPPLY CHAIN TECHNICIANS IN PENNSYLVANIA



National Center for
Supply Chain Automation

WHO ARE SUPPLY CHAIN TECHNICIANS?

The National Center for SCA defines the job of a Supply Chain Technician as a person who installs, operates, supports, upgrades or maintains the automated material handling equipment and systems that support the supply chain.

Supply chain technician is an emergent occupation that does not currently exist in the federal Standard Occupational Classification (SOC) system.

WHY SUPPLY CHAIN TECHNICIANS?

Pennsylvania accounts for over 4% of current supply chain technician related workforce in the nation



- Schools in the United States are not producing enough supply chain mechanics and technicians with the requisite skills.

(University of Tennessee, 2015)

- The supply chain field gets overlooked by new graduates, who think of supply-chain work as “a guy driving a forklift in a dusty old factory.” That outdated image is a huge hurdle for an industry that badly needs new talent in high tech, analytics, robotics, and engineering. (Fortune Magazine, 2014)

EMPLOYMENT IN PENNSYLVANIA*

In Pennsylvania, supply chain related technicians and mechanics (defined using nine standard occupational codes) are currently estimated to number about 104,000. They are projected to grow by 7% by 2025. In addition to the new growth, companies are expected to replace about 21% of their current technician workforce, thus creating about 29,700 total job openings (both new and replacement) in the next 10 years.

Pennsylvania is home to 299 distribution center facilities of over 250,000 square feet. (CoStar, 2014)

Studies suggest that 70% of warehouses will add more automated processes in a 5-year timeframe. (Motorola 2013 Warehouse Visions Report)

With an average need for 4-6 technicians per large automated distribution center, Pennsylvania warehouses will need estimated 1,200 to 1,800 trained technicians to support their automated operations in a 5-year period.

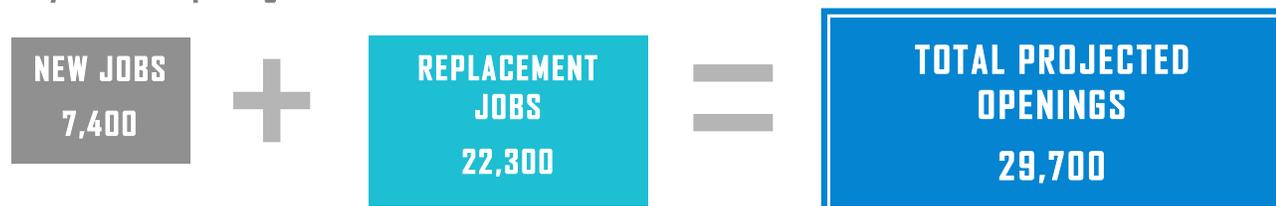
10-year Employment Projections

2015 JOBS
104,000

+ 7% →

2025 JOBS
111,400

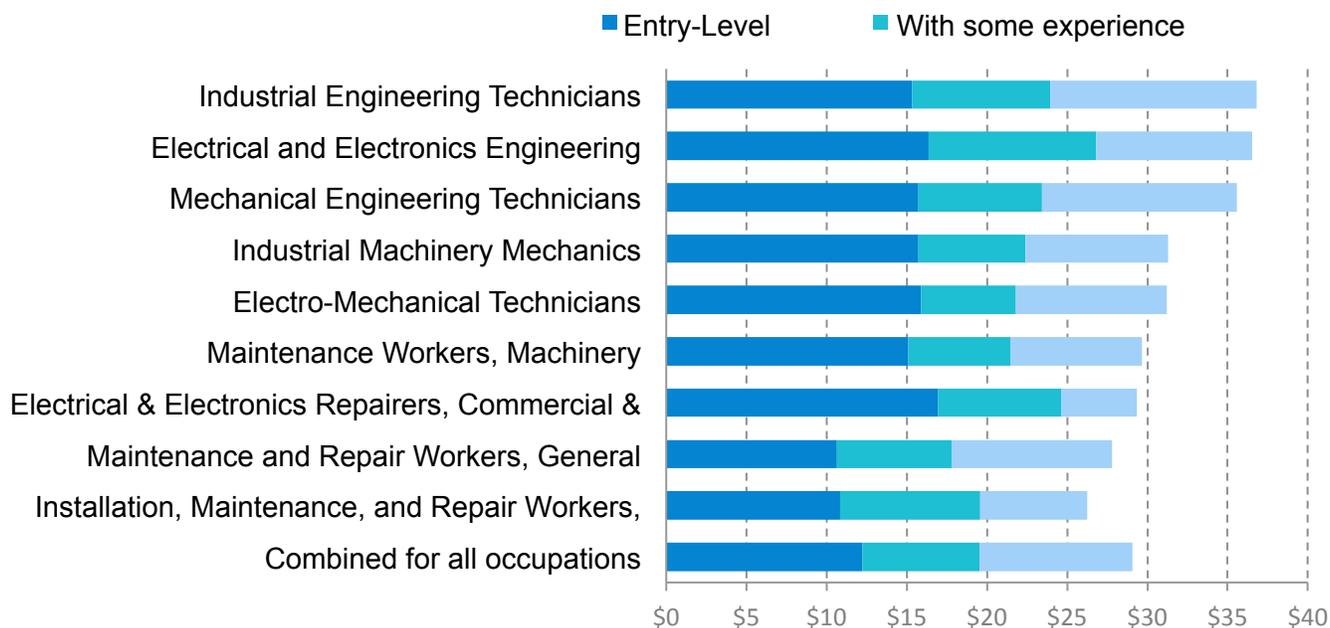
10-year Job Openings



EMPLOYMENT PROJECTIONS FOR OCCUPATIONS RELATED TO SUPPLY CHAIN TECHNICIANS IN PENNSYLVANIA, 2015-2025

Occupations (Standard Occupational Code)	2015 Jobs	2025 Jobs	Total Job Openings (new & replacement)	New Jobs	Replacement Jobs	% Growth	% Replacement
Maintenance and Repair Workers, General (49-9071)	66,868	70,424	16,793	3,556	13,237	5%	20%
Industrial Machinery Mechanics (49-9041)	15,735	18,175	7,419	2,440	4,979	16%	32%
Installation, Maintenance, and Repair Workers, All Other (49-9099)	4,573	4,968	1,254	395	859	9%	19%
Electrical and Electronics Engineering Technicians (17-3023)	4,297	4,491	1,108	194	914	5%	21%
Maintenance Workers, Machinery (49-9043)	4,762	5,149	1,014	387	627	8%	13%
Electrical & Electronics Repairers, Comm. & Industrial Equipment (49-2094)	3,537	3,666	854	129	725	4%	20%
Mechanical Engineering Technicians (17-3027)	1,792	1,951	548	159	389	9%	22%
Industrial Engineering Technicians (17-3026)	1,891	1,968	493	77	416	4%	22%
Electro-Mechanical Technicians (17-3024)	571	619	172	48	124	8%	22%

HOURLY EARNINGS OF OCCUPATIONS RELATED TO SUPPLY CHAIN TECHNICIANS IN PENNSYLVANIA, 2015**



This data brief was funded by the National Science Foundation's Advanced Technological Education Program under DUE Award #1601452. Any opinions, findings, conclusions or recommendations presented are only those of the presenter, researcher, author or agency employee and do not necessarily reflect the views of the National Science Foundation. Find this and other data briefs at supplychainautomation.com. Data source for employment and wages: EMSI (economicmodeling.com). *As an emerging occupation, Supply Chain Technician (SCT) does not have a designated SOC code. Each SOC code listed in this brief includes SCTs as a primary segment of its workforce, as well as an unknown number not employed as SCTs. **Wages in the chart are represented for 10th, 50th, and 90th percentiles.