



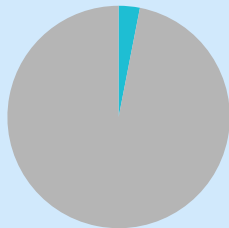
WHO ARE SUPPLY CHAIN TECHNICIANS?

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?

North Carolina accounts for 3% 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.

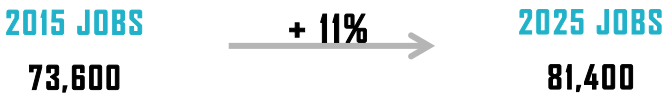
(University of Tennessee, 2015)

— 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 That outdated image is a huge hurdle for an industry that badly needs new talent in high tech, analytics, robotics, and engineering.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 NORTH CAROLINA*

In North Carolina, supply chain related technicians and mechanics (defined using nine standard occupational codes) are currently estimated to number about 73,600. They are projected to grow by 11% by 2025. In addition to the new growth, companies are expected to replace about 22% of their current technician workforce, thus creating about 23,800 total job openings (both new and replacement) in the next 10 years.

10-year Employment Projections



10-year Job Openings



North Carolina is home to 159 distribution center facilities of over 250,000 square feet. (CoStar, 2014)

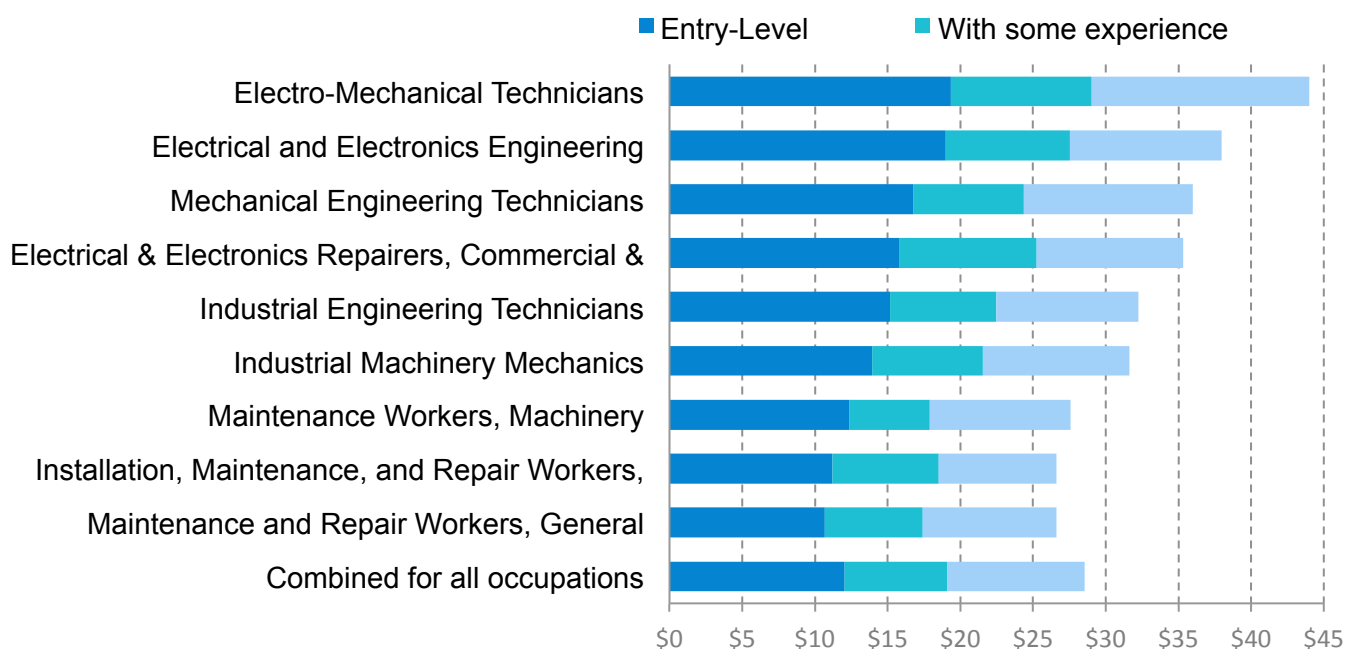
Studies suggest that 70% of warehouses will add more automated processes in a 5-year timeframe. (Motorola 2013 Warehouse Visions Report)

With an average need for 4-6 technicians per large automated distribution center, North Carolina warehouses will need estimated 600 to 1,000 trained technicians to support their automated operations in a 5-year period.

EMPLOYMENT PROJECTIONS FOR OCCUPATIONS RELATED TO SUPPLY CHAIN TECHNICIANS IN NORTH CAROLINA, 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) | 45,281 | 50,243 | 14,148 | 4,962 | 9,186 | 11% | 20% |
| Industrial Machinery Mechanics (49-9041) | 10,347 | 11,971 | 4,810 | 1,624 | 3,186 | 16% | 31% |
| Installation, Maintenance, and Repair Workers, All Other (49-9099) | 4,658 | 5,152 | 1,324 | 494 | 830 | 11% | 18% |
| Electrical and Electronics Engineering Technicians (17-3023) | 3,585 | 3,838 | 1,018 | 253 | 765 | 7% | 21% |
| Maintenance Workers, Machinery (49-9043) | 4,179 | 4,268 | 880 | 89 | 791 | 2% | 19% |
| Electrical & Electronics Repairers, Comm. & Industrial Equipment (49-2094) | 2,568 | 2,655 | 649 | 87 | 562 | 3% | 22% |
| Industrial Engineering Technicians (17-3026) | 1,763 | 1,909 | 532 | 146 | 386 | 8% | 22% |
| Mechanical Engineering Technicians (17-3027) | 1,066 | 1,218 | 386 | 152 | 234 | 14% | 22% |
| Electro-Mechanical Technicians (17-3024) | 160 | 202 | 80 | 42 | 38 | 26% | 24% |

HOURLY EARNINGS OF OCCUPATIONS RELATED TO SUPPLY CHAIN TECHNICIANS IN NORTH CAROLINA, 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.