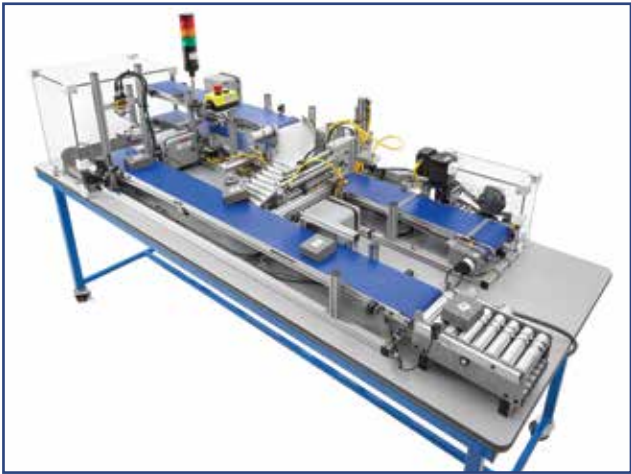# Certified Technician - Supply Chain Automation (CT-SCA)

The MSSC's CT-SCA Certification is a nationally portable, industry-led, training and certification system developed through a partnership with the National Center for Supply Chain Automation (NCSCA), Material Handling Industry (MHI), Material Handling Distributors Association (MHEDA), Amatrol, and NOCTI Business Solutions. It will enable both students and incumbent workers to gain the skills needed to meet the definition of a supply chain automation technician: *a technician who installs, operates, supports, upgrades, or maintains the automated material handling equipment and systems which support the supply chain.* This program will enable certificants to earn 3 prestigious industry recognized certifications:

CT-SCA - EM — Certification in Equipment Maintenance

CT-SCA - ER — Certification in Equipment Repair

CT-SCA - NR — Certification in Network Repair

Skill Boss-Logistics

Drawing upon 100 skills from MSSC's industry-defined, nationally validated Logistics Standards, Amatrol has built an ingenious hands-on training and testing device called "Skill Boss- Logistics"

◆ Compact and transportable

◆ Fits easily into a company training facility or community college

◆ Cost effective

◆ Hands on experience to excite students to pursue a lucrative career in supply chain automation

Career Growth Potential

$18-$26 per hour = $38,000-$54,000	$30-$42 per hour = $62,000-$87,000	$100,000+
Starting wages	Experienced level 3 techs	Experienced facilities managers

Ecommerce is overtaking the Retail Industry

◆ Ecommerce is predicted to have 25-35% more returns vs 8-9% brick & mortar stores

◆ There were 8,139 U.S. retail closures reported in 2017

◆ Ecommerce has grown from $170 billion to $692 billion in the last 10 years

◆ The Wall Street Journal reported 452,000 new logistics jobs were created in 2018

◆ Fulfillment centers are replacing traditional retail

◆ Logistics-industry salaries are among the fastest-growing sectors in the U.S.

◆ There is a significant shortage of skilled technicians

◆ The single, biggest issue companies face is attracting, recruiting and retaining staff

- Available nationwide
- Nationally accredited
- Federally recognized
- Always up to date
- Time and cost-effective for students
- Lucrative career pathway
- Easily integrated into apprenticeships and internships
- Customizable at the community level
- Improved employee performance and retention
- Reduces recruitment and training costs

Key Elements

CT-SCA - EM — Certification in Equipment Maintenance

- Implement and remove equipment/system safety protocols
- Identify and operate major automated equipment/systems
- Monitor machine/system operation
- Ensure key parts and components are available in inventory
- Implement & perform preventive maintenance
- Establish monitoring and maintenance schedule for equipment/lubrication condition
- Safely use hand tools to maintain equipment
- Communicate with co-workers to promote productivity
- Perform technical and administrative duties

CT-SCA - ER — Certification in Equipment Repair

- Install and maintain PLCs and PLC modules
- Troubleshoot and repair PLCs with discrete I/O PLC modules
- Modify, troubleshoot, or manipulate standard PLC operating programs and test/verify them for correct operation
- Install, maintain, and troubleshoot PLC systems with variable frequency AC drives
- Operate and test equipment network system, scanners, and run systems

CT-SCA - NR — Certification in Network Repair

- Troubleshoot machines - mechanical/electrical/hydraulic/pneumatic systems
- Prepare for repair
- Repair - mechanical/electrical/hydraulic/pneumatic systems
- Install, move, or remove equipment

The Manufacturing Skill Standards Council®: MANUFACTURING THE FUTURE

The Manufacturing Skill Standards Council, a 501(c)3 non-profit, is an industry-led training, assessment, and certification system focused on the core skills and knowledge needed by the nation's front-line production and material handling workers. MSSC, the only **ISO Standard 17024** certified program covering entry-level to basic front-line supervisor skills, is **nationally recognized, federally endorsed**, and has been vetted by the U.S. Departments of Labor, Education, Justice, VA, and Jobs Corps.