







Skill Boss - Logistics

Hands-on Skills Assessment and Training for the CT-SCA Certification





Skill Boss Logistics Collaboration

Certified Technician – Supply Chain Automation

Collaboration between NCSCA, MHI, MHEDA, MSSC, Amatrol















Skill Boss Logistics Industry Advisors

Industry Partners that helped in the Development Process



















DAIFUKU



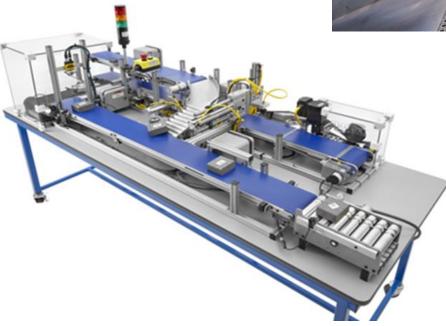




Skill Boss Logistics

- Designed to simulate a modern Sortation System
- Packages are loaded/scanned/routed and re-routed through a automated process









CT-SCA Certification Courses

Supply Chain Technician: A person who installs, operates, supports, upgrades or maintains the automated material handling equipment and systems that support the supply chain.

Course 3

Approx. 150 Hours

Course 2

Approx. 150 Hours

ER

Equipment Repair

Equipment Repair - Installing, Modifying, Troubleshooting and Repairing Equipment/Systems

Pre-Requisite Knowledge

NR

Network Repair

Network Repair - Installing,
Modifying, Troubleshooting and
Repairing Basic Controllers and
Networks

Pre-Requisite Knowledge

<u>Higher Level</u>

Course 1

Approx. 150 Hours

EM

Equipment Maintenance

Maintaining Equipment / Systems



Entry Level

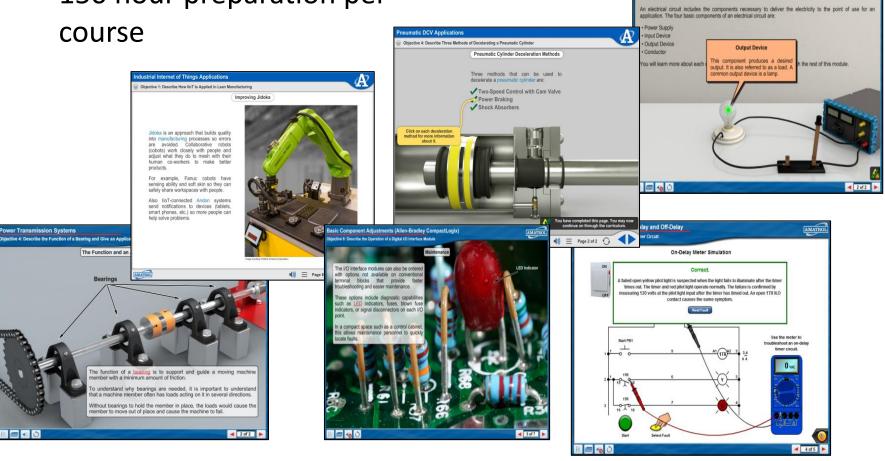
CT-SCA E-Learning Courses

Basic Electrical Circuits

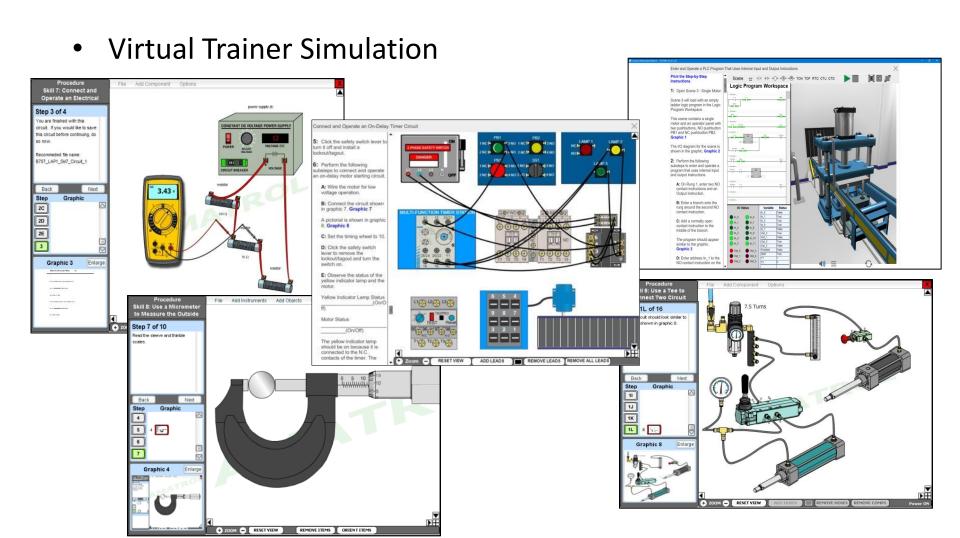
Components of an Electrical Circuit

Meets MSSC CTSCA **Standards**

150 hour preparation per



CT-SCA E-Learning Courses





Skill Boss Logistics

100 Hands-On Skills

Course 1

EM Equipment Maint.

- Safety
- Measurement
- Nomenclature
- Hand Tools
- System Operation
- Adjust Elect/Pneu
- Maintain Machines
- Adjust Scanners
- Adjust Automation Equipment

Course 2

ER Equipment Repair

- Install Mechanical Systems
- Interpret Specifications
- Troubleshoot Machines
- Install Electrical Systems
- Install Fluid Power Systems
- Interpret Blueprints

Course 3

NR Network Repair

- Check indicators Operation
- Adjust Systems
- Edit a PLC Program
- Program a PLC
- Operate a PLC
- Troubleshoot a PLC
- Install Networks/Scanners
- Administer a Network

<u>Higher Level</u>

Entry Level





Skill Boss Logistics Major Elements



Control Unit

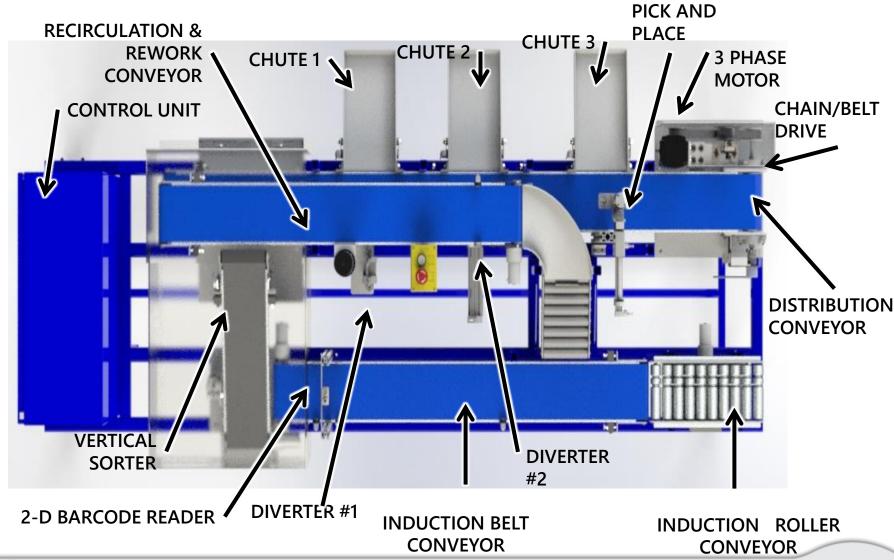
HMI with Warehouse Control Software

Workstation





Skill Boss Logistics Layout





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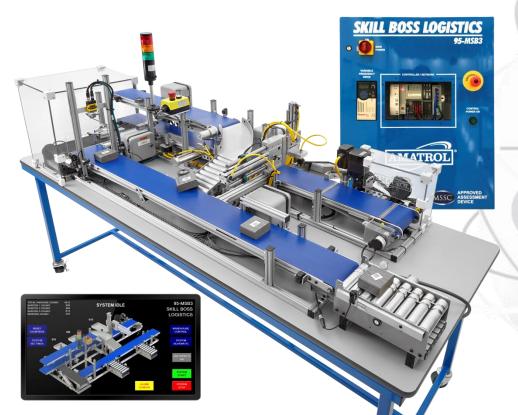




Wide Range of Technology

Many Types of Sensors

AC and DC Motors



Discrete and Analog IO, High Speed Counter, Ethernet

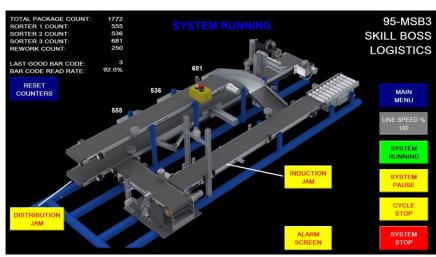
Belt and Chain Drive





Warehouse Control Software





CUSTOMER	CHUTE	STATUS	PART	QUANTITY	PART	QUANTITY	PART	QUANTITY
Bob Smith	1	PENDING	1	3	0	0	0	0
Jim Hall	2	PENDING	2	3	0	0	0	0
Jay McAlister	3	PENDING	1	1	2	1	3	1
Connor Giles	1	PENDING	1	2	2	2	3	2
John Lloyd	1	PENDING	3	2	0	0	0	0
Ace Waters	2	PENDING	1	1	0	0	0	0
Ned Potts	3	PENDING	2	1	3	1	0	0
Mathew Griffin	1	PENDING	3	1	0	0	0	0
Bjorn Finnegan	3	RELEASED	1	1	0	0	0	0
Kaine Broadhur*	1	QUEUED	1	2	2	1	0	0
Marco Larsen	1	PENDING	1	3	2	2	3	1
	RELEASE MANUFACTURING ORDER		HOLD MANUFACTURING ORDER		PICKING		MA	DELETE NUFACTURING ORDER

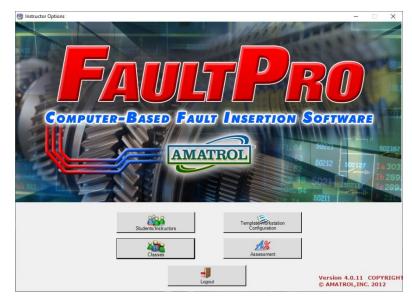




Computer-Based Fault Insertion

FaultPro Included!

Amatrol's FaultPro computer-based fault insertion software provides electronic troubleshooting training by inserting "real-life" faults into the system.





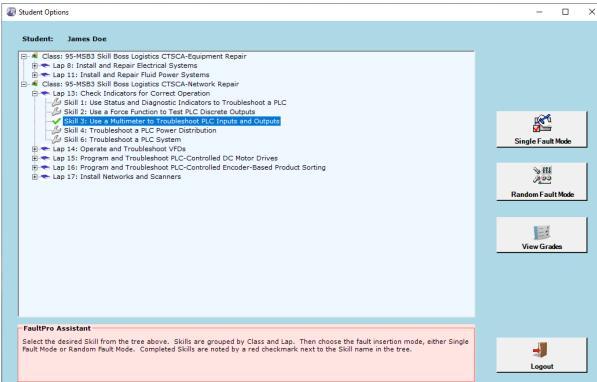






Examples of 50+ Faults:

- E-Stop Pushbuttons
- Induction Sensor
- Limit Switch
- Photoelectric Sensors
- Magnetic Reed Switches
- Barcode Scanner
- Master Control Relay
- Programmable Controller I/O
- Power Supply
- Variable Frequency Drive
- Pneumatic Valve Solenoids
- Pneumatic Valves
- AC and DC Motors
- Encoder
- Main Power Breaker
- Ethernet Switch



- Real World Problem Solving
- Safe Fault Insertion
- Automated Fault Insertion
- Student Record Database Analysis





Master Teacher Instructor Training Fall 2020

Amatrol Inc. Jeffersonville, Indiana













Skill Boss Logistics



