

Mobile Manufacturing Laboratory

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Introduction

Seeing a need for training to fulfill the requirements of local manufacturers and realizing that location and time away from the production floor are obstacles to getting that training, LCCC developed a program to take essential courses to local businesses.



Innovative Solutions

By engaging local manufactures LCCC had a vision:

“Bring the college to the business”



Target Audience

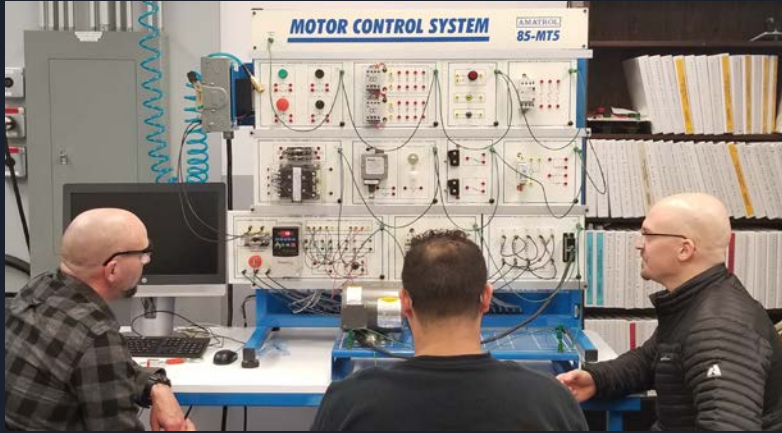
Individuals and companies that were located too far from our campus location.

Individuals that were looking to advance from their current roles in the organization.

Companies looking to develop comprehensive talent pipelines.



The Mobile Manufacturing Laboratory



Key Information



- 28-Foot Trailer
- Repurposed from a public safety/driving simulation lab
- College invested \$200,000 retrofitting and modernizing trailer.
- Runs on plug in power or generator
- Has climate control, security system
- Outfitted with advanced Amatrol learning equipment

Training Equipment

AC/DC Electrical Systems - The student builds circuits using individual electrical components and learns to take precise electrical measurement - a vital troubleshooting skill.



Control relay - The student learns to set up basic electrical circuits using "ladder logic" found in all electrical systems.



Electric Motor Control - The student learns to power and control electric motor safely and efficiently. Focus on "Trouble Shooting" skills essential in industry.



Training Equipment Continued

Basic Pneumatic Systems - The student learns to set up basic pneumatic circuits to control and power devices. Focus on "Trouble Shooting" skills essential in industry. air logic.



Mechanical Drives - The student learns to set up, align, calibrate and run mechanical drive systems using V belts, chains, spur gear and multiple drive shafts. Includes key, bearing and coupling technology.



Training Equipment continued

Programmable Logic Controller (PLC) - programming and troubleshooting skills learned for Allen Bradley and Seimens 7 PLC systems. The heart of manufacturing and supply chain automation operations!



Documented Success

proof of our success



Our Experience is Built on:

Pilot Program - Six students representing (5) companies in the Fall of 2017 launched our Mobile Manufacturing program. Partnered with local Manufacturing Council and a host manufacturer to certify students as Industrial Automation Technicians.

Aluminum Extrusion Company - Currently Certifying (72) employees as Level 1 and 2 Electrical and Mechanical Technicians on site 45 miles from the main campus. Long term 2 year obligation graduating first cohort in mid February 2019.

Student and Employer Feedback



Best Practices & Lessons Learned



- Learn as we go. Continuously improve the program.
- Listened to and seek feedback from students and employers.
- Expect the unexpected. Let yourself be challenged.
- Be friendly and flexible. 100% of our students in the mobile lab are incumbent workers.
- Keep safety in the forefront at all times.
- Communicate. Communicate. Communicate. In an on-line and hands-on program you can not communicate the goals and objectives enough.
- Engage with the employer. If you are pulling employees from the shop or warehouse floor respect the managers and supervisors impacted.

Key Takeaways

Safety

Communication

Marketing and Promotion

Engagement of Employers

Gather Feedback

From Employers

From Students



"If you are going to build one Mobile Manufacturing Unit build two"



What's Next?

What are next steps for the mobile manufacturing lab?

Promotions

Job Fairs, CareerLink Events, Open
Houses

Improvements

Accessibility, New Technology

New Contracts

New Companies, New Geographic Areas



Questions?

Thank You

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