

Replicate RAMTEC in your programs to help fill the “skills gap” in Advanced Manufacturing

RAMTEC *Overview*

Robotics & Advanced Manufacturing Technology Education Collaborative



A Proven Collaboration for meeting Ohio’s training needs in Advanced Manufacturing, Aerospace & Aviation, Polymers & Chemicals, Biohealth, Agribusiness & Food Processing and Automotive is now available for replication and sharing “Best Practices.”

RAMTEC is a collaboration between Industry, Education and Government that began with a conversation between Honda of America, Tri-Rivers Career Center, Marion Technical College, and The Ohio State University-Marion. The success of Tri-Rivers’ RAMTEC in Marion, OH has led to the creation of 23 additional RAMTEC’s throughout Ohio. Thanks to Industry and Community Partnerships, and more than \$22 million in funding from Ohio’s Straight A Grants.

RAMTEC’s Mission is to grow Ohio’s economy by building a skilled workforce, partnering with effective training programs, and connecting Ohio employers with qualified workers in Automated and Advanced Manufacturing.

RAMTEC partnered with the six biggest companies in the WORLD to create curriculum, affordable prices to education, training, and certifications. **FANUC Robotics, Yaskawa/Motoman Robotics, FANUC CNC Machining, Parker Hannifin Hydraulics, Rockwell Automation/Allen Bradley PLC’s and Lincoln Electric Welding, and Stratasys 3D Printing** supply the highest percentage of Advanced Manufacturing equipment to the Automation Industry today.

RAMTEC develops, delivers and expands upon the partnerships of Industry, Education, and Ohio’s existing workforce initiatives. RAMTEC also delivers training that meets the needs of Manufacturers by focusing on specific training in grades 6 through post-secondary and incumbent workers that leads to **industry recognized credentials**.

U.S. Install Total Annually

Rockwell Automation

Allen-Bradley
6 Billion

YASKAWA
MOTOMAN ROBOTICS
3.8 Billion

stratasys
668 Million

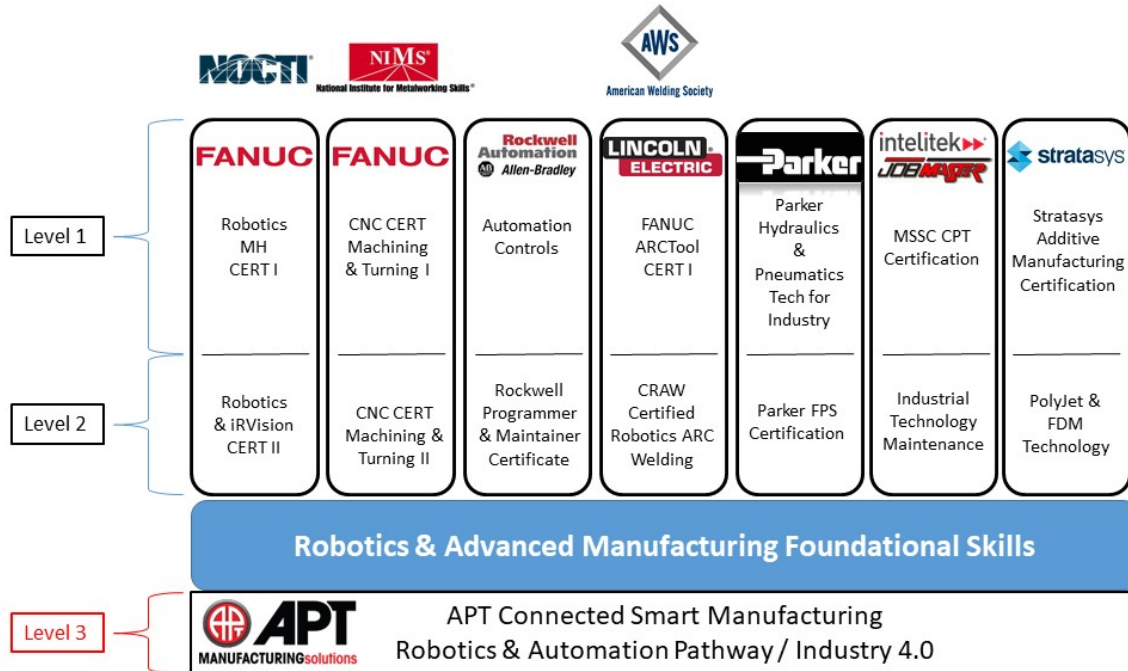
FANUC
5 Billion

LINCOLN ELECTRIC
2.6 Billion

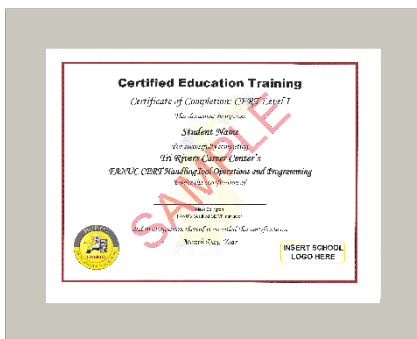
Parker
12 Billion

MAKE INDUSTRY CREDENTIALING A PART OF YOUR PROGRAM

Robotics & Automation Occupation Pathway Industry Recognized Credentials – Give your students a competitive edge



FANUC ROBOTICS & CNC



ROCKWELL AUTOMATION PLC'S



YASKAWA MOTOMAN ROBOTICS



PARKER HANNIFIN HYDRAULICS / PNEUMATICS



- ◆ LINCOLN ELECTRIC WELDING (AWS)
- ◆ NIMS MACHINING
- ◆ MSSC CPT

Ohio | Department of Education
INDUSTRY RECOGNIZED CREDENTIALS

Talent shortage impact to the business

82%

of executives believe the skills gap will impact their ability to meet customer demand



of executives agree
**there is a talent shortage
in U.S. manufacturing**

The skills gap is widening

Over the next decade nearly 3 ½ million manufacturing jobs will likely be needed and

2015 **2 Million** 2025
are expected to go unfilled due to the skills gap

*Sources include:

Deloitte.  Institute

CEO's and manufacturing executives around the world identify talent-driven innovation as the number one determinant of competitiveness. Yet, manufacturing executives report a significant gap in their ability to find talent with required skills. RAMTEC has partnered with world leading companies that represent over 37 billion dollars worth of equipment used in industries throughout the United States and allowed RAMTEC's to utilize their equipment, curriculum and Instructor training resources within their school's facilities. This is what Industry Leaders are saying.

"The RAMTEC center will allow us to generate interest in the manufacturing field while helping students develop the skillsets necessary for a successful and limitless career in the manufacturing industry...Our facility is a fully integrated development and manufacturing facility, meaning that we utilize a wide variety of advanced manufacturing technology and skillsets...Our current and new employees will benefit from the manufacturing technology training at RAMTEC." – **SCHAEFFLER (LUK USA LLC)**

"Pepperidge Farm realizes the need for highly skilled and credentialed employees for advanced and specialized manufacturing jobs...RAMTEC reduces the skills gap and becomes a pipeline for highly skilled employees in advanced manufacturing." – **PEPPERIDGE FARM, INC.**

"Our company is committed to the training of the youth in the area through proven blended learning, e-learning, and hands-on training that exposes students to advanced manufacturing. The program emphasis is a continuing pathway towards industrial credentialing, certifications, competency-based laps of instruction and very important credits towards post-secondary certifications and college degrees." – **HONDA NORTH AMERICA, INC.**

"As our current employees retire we need to hire employees that are skilled in the aspects of hydraulics, welding, robotics, industrial electricity, programmable logic controls, programming and troubleshooting our numerous robots. With the equipment and curriculum that comes along with the RAMTEC program, we strongly feel that it will help prepare our new employees with the skilled trades that are needed for the 21st century." – **GENERAL MOTORS CASTING OPERATIONS PLANT**

"We have an enormous need for capable employees to replace the many retirements we are facing in the next five years. Both existing and potential new employees will benefit from training in technology fields such as robotics, programmable logic controllers and machine and/or robotic vision. – **THE WOOSTER BRUSH COMPANY**

The key to closing the skills gap in advanced manufacturing is delivering education & training that mirrors what is taking place in industry. We can help!

Industry Credentials Defined: A process of program evaluation ensuring that individual programs meet Industry standards in the areas of curriculum, teacher qualification, lab specifications, equipment as developed or supported by business and Industry to verify student mastery of technical skills and competencies.

The RAMTEC model is a national response to deliver competency-based, stackable industry training leading to Industry Credentials for future workers in robotics, automation, industrial maintenance, advanced manufacturing and the connected enterprise. RAMTEC also delivers career pathways for learning 6-16, to explore and succeed in a chosen path.

The RAMTEC model gives you the tools to deliver curriculum through eLearning, hands-on learning, authentic based learning, STEM and blended learning while providing Industry Credentials to your students and staff.

IF your goal is to align your programs with the exact same equipment your local Industries are using and provide your students with Industry Credentials to show “proof of learning” to your local partners, then the successes of RAMTEC are available to help you “rebrand” the best practices of RAMTEC to meet the needs of your programs.



SAMPLE FANUC ROBOTICS LAB

- Expert Consultation
- Room layouts including space & electrical requirements
- Curriculum, skills and competencies for each program
- Industry-Relevant Equipment
- Instructor Training
- Certification Processes

For additional information on RAMTEC visit us at: www.ramtecusa.com

If you would like additional information on the RAMTEC model, curriculum, skill sets, Industrial Credentials, room layouts or Industry-based equipment pricing, please contact:

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