

National Coalition of
Advanced Technology Centers
Dayton, Ohio
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“AMTEC Built On Winning Relationships”



Presenters

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The Global Workforce Performance Expectation

Consistency of worker skills and competencies in every operational location!!

- Available and well trained workforce
- Outcomes from training and education programs

The Answer

Automotive Manufacturing Technical Education Collaborative (AMTEC)

20 colleges and **18** company locations in **12** states

<http://www.autoworkforce.org/>

Our Goal

To help industry meet the following challenges:

- **Development of current workforce standards for Tool & Die and Multi-skilled Maintenance**
- **Develop competency measurement tools**
- **Prepare the workforce to be globally competitive**
- **Increase workforce productivity**
- **Develop a pipeline for the future workforce**



AMTEC Vision and Mission

Vision: A recognized collaboration of colleges and companies working to strengthen the competency and global competitiveness of the automotive workforce.

Mission: Create and sustain an innovative, responsive, and standards-based workforce development system that meets industry skill requirements.

<http://AMTEC.autoworkforce.org>

AMTEC Outcomes

- Auto manufacturing required workforce competencies validated and kept current.
 - Colleges establish customer supplier relationship with a representative cross section of auto manufacturing companies and suppliers
 - Processes for identifying and validating competencies are proven
 - Common and unique competency requirements and specifications are identified
- Competency measurement tools and processes identified and standardized for common and specialty skills
 - Identify and validate best practices for building relationships with employers and their employees
 - Share successful models for building relationships/communication with employers and employees
 - Colleges collaborate to compile competency findings
 - Validate required competencies with industry participants

AMTEC Outcomes

- Individuals acquire the competencies they need to successfully perform their jobs
 - Improve staff ability to facilitate learning
 - More students succeed in learning industry required competencies
 - More students gain credential or degree based on industry requirements and timing.
 - Increased competency of the workforce aligned with industry
- A workforce that is more competitive globally
 - Positive impact on industry productivity
- Workforce utilization maximized
 - Career success for a greater number of new and incumbent workers
 - Greater percentage of workforce gainfully and productively employed
- More individuals pursue career pathways leading to jobs in auto manufacturing
 - Increased interest in automotive manufacturing as a viable career option
 - Increased participation of minority, protected, and underrepresented groups

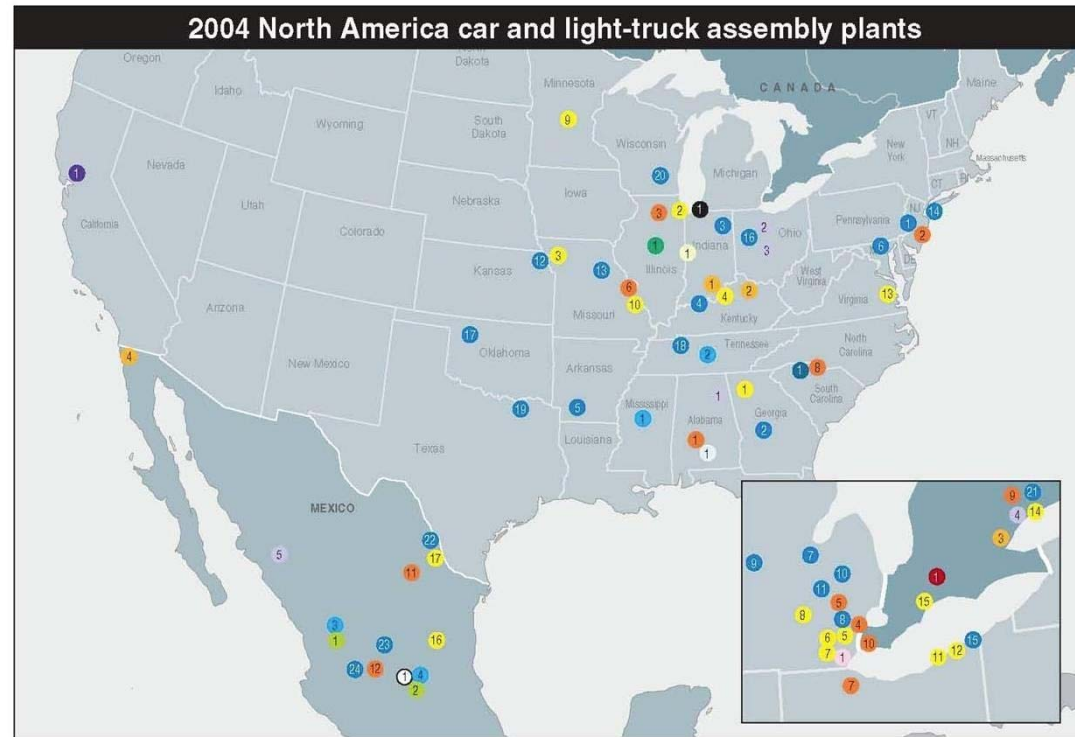
AMTEC

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AMTEC Locations and US OEM's

- Core Partner List

- AMTEC and KCTCS's KCEAM & Bluegrass CTC with TMMK & Webasto Roof Systems
- KCTCS's Jefferson CTC with Ford Louisville (2 plants) & NHK Springs Precision of America
- Lansing CC with GM Delta Plant & Grand River Assembly , Capitol Area Manufacturing Council & Woodbridge Group
- Macomb CC with General Motors & Chrysler Corp. & GM Pontiac Assembly
- Cuyahoga CC with Lincoln Electric & Ford Lima Assembly
- Owens Community College with Reiter Automotive
- Pellissippi State Tech Community College with Bosch
- Spartanburg Community College with BMW
- Alabama CARCAM with Alabama AMA
- Alamo Community College District with TMMT & Avanzar Interiors
- Tarrant County College with GM Arlington
- Ivy Tech with TMMI
- Henry Ford Community College with Ford Motor Company
- CARCAM: Consortium for Alabama Regional Center for Auto Manufacturing & AMA: Alabama Automotive Manufacturers Association
- Danville Community College & Goodyear
- Itawamba Community College & TMMM



The Plan

Companies and Colleges partnering

- Share resources and knowledge to reduce lead time and costs for training startup
- Coop/internships to gain real world application
- Openly share expertise

To reduce the lead time and the cost of starting or expanding training programs

Models

- Bluegrass Community & Technical College
- Macomb Community College
- Cuyahoga Community College

Bluegrass



Community & Technical College

HIGHER EDUCATION BEGINS HERE

Advanced Technology Center Georgetown Campus

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Community Colleges & Toyota

- **Toyota need**
 - People-development and instructional resources
 - Experience and knowledge of colleges
- **College need**
 - Progressive models of workplace practices
 - Methods to develop people for workplace readiness

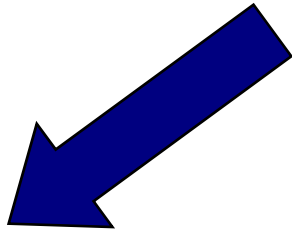
History

- Original partnership with Central Kentucky Technical College
- College went to Japan with TMMK in 1987
- 18 year partnership
- Degrees and Diplomas awarded
- Collaboration on curriculum development
- Flexible delivery

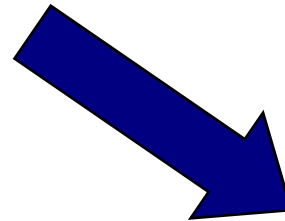
Stages of Development

- Toyota delivers training/College participating
- College and Toyota deliver training together
- College delivers training/Toyota training specialized
- College delivers training and provides same training to community/industries/suppliers

Two Pronged Delivery



Existing employee development thru training targeted to meet the specific needs of each company



Providing a pipeline of trained skilled workers for hire- the focus of this training combines technical skills with soft skills





The Product

Multi-skilled Workers



Machine Repair

Hydraulics
Pneumatics

Electrical
Electronics

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How does it all tie together?





Macomb Community College & General Motors

Keeping Up on Current Topics

- October 2007, MCC & GM attended an Academy at Ford Kentucky Truck Plant regarding Preventative and Predictive Maintenance
- The college personnel realized this topic was important to our customer.

Open Dialog

- Partnered with General Physics
- Brought curriculum to General Motors for review & approval
- Meeting in August included Macomb Community College, General Physics and General Motors (AMTEC partners).