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AMTEC

National Center of Excellence in Advanced Automotive Manufacturing

“Industry – Education & Government Collaboration”

Automotive Manufacturing Technical Education Collaborative



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What We Are

Organization: An NSF ATE National Center of Excellence that consist of community colleges and auto industry partners in 12 states with a common, vision, mission, and goals inaugurated in April of 2005.

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 education development system that meets industry skill requirements.



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A “Big” Collaboration

- 12 States
- 34 Auto-related plants
- 30 Community Colleges
- Industry Validated Standards
- 12 Courses and 63 Modules aligned to standards
- 13 Assessments aligned to standards

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AMTEC National Center Goals

Goal 1 - Create business/industry partnerships in delivering core technical education that meets the high priority needs of automotive manufacturers and suppliers.

Goal 2 - Increase secondary to postsecondary transition and from postsecondary to employment to meet industry needs.

Goal 3 - Implement a collaborative support system to sustain and replicate the AMTEC model.

Goal 4 - Create and sustain the program with assessments, credentialing and continuous improvement.

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AMTEC Leadership

Annette Parker, NSF Principal Investigator & Executive Director

AMTEC Strategy Board

Caren Caton

Toyota Motor Manufacturing & Engineering

Willy Kaulfersch

Ford Motor Company

JoAnne Pritchard

General Motors

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Gaining Consensus & Collaboration

1. We used a method called a “DACUM” with “DELPHI”
2. Industry Quote: Everyone realized that good education and training—
 - is good for all of us;
 - is good for our workers and our students;
 - is good for the United States!
 - Companies compete with their products...
4. AMTEC’s curriculum and assessments allow community college is deliver a common core transportable credential



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AMTEC Model Elements

<p>1. Employer Involvement in all Phases of the program</p>	<p>Governance Body - Boards/ Committee with significant Employers. Curriculum- Competencies, Standards, Labs Recruitment - Plant tours, High school fairs Retention - Mentoring, Internships Funding - Equipment, scholarships, donors Jobs – Internships and Pre or Apprenticeship Opportunities Invested in Continuous Improvement Process, Customer & Consumer Metrics Invested in Governance– Requires Memorandum of Agreement between parties. Invested in Sustainability – Funding, Resources, Advocacy</p>
<p>2. Institutional and Instructional transformation links education and career competencies and training</p>	<p>Connects high school core curriculum (4X4) to college career pathway Connects from workforce to college career pathway Allows for non-credit to credit conversion Values and aligns credentials and stackable industry certifications.</p>
<p>3. Wrap around support services.</p>	<p>Provides career guidance, academic counseling, mentor financial assistance, and internships for student success.</p>
<p>4. Partnerships</p>	<p>Employers, Schools, Colleges, Universities, Government, and CBOs.</p>
<p>5. Continuous Improvement</p>	<p>Utilizes data to improve performance and student success.</p>
<p>6. Sustainability</p>	<p>Use Balanced Scorecard to drive planning and implementation</p>



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AMTEC's Innovation

Curriculum

- **12 Courses & 63 Modules linked to DACUM – Delphi standards**
- Offer as traditional classroom or hybrid on-line
- Includes assessments: pre/post with “test out options”
- Coursework, virtual labs and System Simulator Cell
- Can be offered as AAS, incumbent training, or short certificates
- Endorsed by industry partners

Assessments

- **Assessments linked to DACUM – Delphi standards**
- AMTEC General Maintenance Mechatronics Assessment
- 12 Topic/Course Level Assessments
- Module Pre/Post Assessments

Career Pathways

- Research based career pathways that identify key success factors that include: **industry, education, and government involvement in all phases of student education**



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Thank You