

AMTEC National Center of Excellence in Advanced Automotive Manufacturing

"Industry – Education & Government Collaboration"





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.

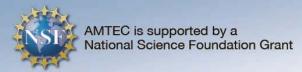




A "Big" Collaboration

- 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





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.





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





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





Iginite. Educate. Accelerate.	
	AMTEC Model Elements
1. Employer Involvement in all Phases of the program	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
2. Institutional and Instructional transformation links education and career competencies and training	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.
3. Wrap around support services.	Provides career guidance, academic counseling, mentor financial assistance, and internships for student success.
4. Partnerships	Employers, Schools, Colleges, Universities, Government, and CBOs.
5. Continuous Improvement	Utilizes data to improve performance and student success.
6 Sustainahility	Use Ralanced Scorecard to drive planning and implementation





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

Automotive Manufacturing Technical Education Collaborative





Thank You