

“Creating the Pull”

Our CD Process and Progress to Date

AMTEC Career Pathways Academy

Alamo Community College District

San Antonio, Texas

February 11, 2011

January, 2010 Goal Team 1

Benchmarking Spartanburg CC

- Mechatronics & systems based learning
- Integrating academic and industry education strategies.....
- Teaching from the machine
- Learning module concept
- It all comes back to maintenance

The Development Launch

- Course Leaders recruited - GM, Toyota, Ford
- Technological faculty from AMTEC colleges recruited

May, 2010

- Course Development Template distributed
- Intro # 1 in online development
- Online learning vendor fair & faculty research
- Research in virtual technological content

June, 2010

- Course leaders, writers and Course Team Development - Critical f-t-f meetings in Dearborn, Knoxville, Flint on: T–DACUM, authentic remediation, fault driven instruction, and lab based evaluation models
- Our emerging instructional model-- a work in progress---JIT as contextual content and approach
- Build out of the machine concept and
“teaching through the machine”

July - August

- Modular objectives, descriptions and digital content requests developed by writers, reviewed by Course Leaders and submitted
- Cost model for use of digital content negotiations begun
- The machine defined
- Oh future maintenance worker, where art thou? New Mod #'s 57 to 59

September, October, November

- Modular content
- AMTEC LMS
- The Virtual Machine
- The AMTEC Manufacturing Simulator

December and January, 2011

- Learning Management System Finalized
- A Machine, not an educational trainer..
- AMTEC and Virtual Tools
 - electronic media in modules, virtual machine, virtual factory

Looking forward to 1st gen modules and the review by C.L.'s , SME's and College faculty as a step in our Continuous Improvement model for the curriculum

Local College Implementation

- Different student entry points lead to different student educational pathways-new models for student counseling needed
- Mapping and scheduling of essential safety content for lab safety
- Role & contracting of faculty for online and lab
- Assigning appropriate credit allocations /module/course/institution
- Faculty preparation & certification, Lab equip. & cert., local industry partner role

Implementation continued

- Functional level of reading, writing and math in curricular materials to be determined
- Machine training for faculty
- Getting students ready for online learning
- Card reader/time clock for open labs
- Faculty administrator strategy
- Others to be determined