

Advanced Manufacturing Center

DOL Discretionary Grants Roundtable

April 15, 2009

Atlanta, GA



Agenda

- Situational Analysis
- Grant Goals
- Unique Characteristics
- Q&A

Situational Analysis

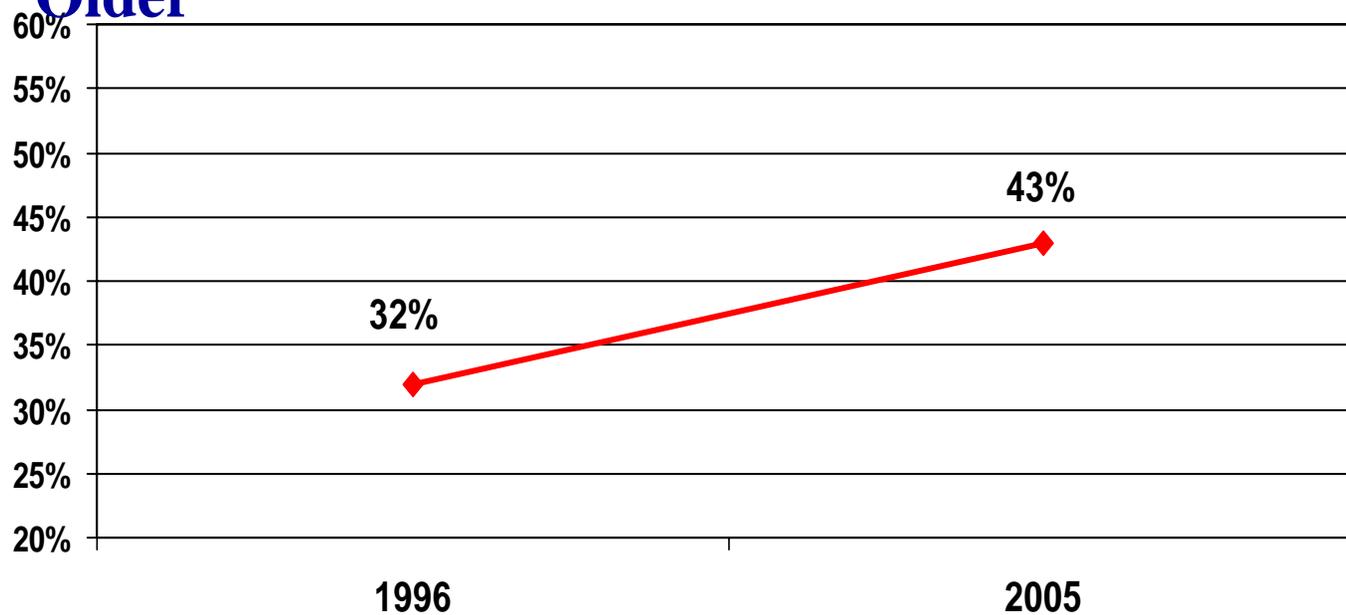
- Perception of Manufacturing
- Baby Boomers
- Increasing complexity
- Critical for economy

Manufacturing...

- The U. S. share of worldwide manufacturing has been stable for the last 25 years.
- World leader in manufacturing Gross Domestic Product (25% share), more than the next three countries combined.
- U. S. Manufacturing continues to post strong year over year productivity gains.

Baby Boomers

Manufacturing Workers Aged 45 Years or Older



Complexity

- Technology driven processes
- Requires highly skilled, multi-skilled employees
- Low skilled jobs disappearing (or gone!)

Goals

- Develop a unique production based campus
- Focus on Multi-skilled technicians
- Incumbent training and traditional
- On-line/hybrid modules
- Increasing partnerships and collaboration

Unique Characteristics

- Partnership with Industry
 - Industry need:
 - People-development and instructional resources
 - Experience and knowledge of colleges
 - Colleges need:
 - Progressive models of workplace practices
 - Methods to develop people for workplace readiness

Unique Characteristics

- KCTCS locations – natural partners
 - GM – Bowling Green
 - Ford – Jefferson
 - Toyota – Bluegrass
 - Suppliers – 63 campuses statewide

Unique Characteristics

- Partnerships -- AMTEC
 - Automotive Manufacturing Technical Education Collaborative
 - OEM, Suppliers and Community/Technical Colleges
 - Multi-skilled Maintenance Technicians
 - National Science Foundation

Unique Characteristics

- Learning area resembles a factory
 - No walls
 - Flexible space to change as customer needs change
 - Team based
 - Students experience real life environment
 - Troubleshooting “capstone”

Unique Characteristics



Unique Characteristics



Unique Characteristics

- Delivery options -- KCTCS On-line
 - On-line lecture
 - Flexible schedule hands on lab hours
 - Modular ‘chunks’ of courses
 - Open entry – open completion
 - Competency based

Unique Characteristics

- Career Pathways
 - Middle School – Machining lab
 - High School – Manufacturing Academy
 - Manufacturing “Boot Camps”
 - Articulation agreements with Universities
 - Internship opportunities

Q&A



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