



Manufacturing & Industrial Training

Building the workforce of tomorrow --

May 19, 2009

Gearing Up for High Performance Manufacturing

Industrial & Manufacturing Training

- Premier manufacturing programs
 - *Machining: manual, CNC*
 - *Welding & Fabrication*
 - *CNC Programming, Tool & Fixture Design*
 - *CAD*
 - *Quality Assurance*
- Industrial and mfg. support training
 - *Electrical Systems: PLC's, Motors & Controls, Instrumentation, Process Control*
 - *Mechanical Systems: Hydraulics, Pneumatics, Power Transmission, mechanical compo*
- Warehouse, Inventory Control, Distribution

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Secondary Programs

- Area Vocational Educational Partnership (*AVEP*)
 - Juniors and Seniors can take up to 10 credit hrs per semester
 - Serves towards graduation and college credits
 - Wide array of topics: health, mfg. industrial, engineering
- On-site Manufacturing Programs
 - 3 of 7 high schools: machining & welding
 - Open to 9th – 12th grade students
 - Enrollment ranges from 15-25 per school
- Shorter Pipeline to a Certificate or Degree

Advanced Mfg. Grant Award

- Two Goals:
 - Further develop Adv. Mfg. training programs
 - Increase capacity to deliver training off-site
- U.S. DOL-ETA: President's High Job Growth Initiative **Community-Based Job Training** grant for Advanced Manufacturing
- 3-Year grant program, *(2 years remain)*
- Partnering with employers and **local workforce centers** throughout Southern Colorado
- Train **450+** *(includes 100 youth)*

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Tiered Training Program



Industry Sector Technical Competencies

Hands-on



Industry-Wide Technical Competencies

MSSC



Workplace Competencies

Academic Competencies

Personal Effectiveness Competencies



Currently planned



Future plan

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Production Skills



Manufacturing Skills Standards Council (MSSC)

- Nationwide system of training, assessment and certification-based on federally endorsed, industry-led MSSC standards
- Goal: *Build nationwide pipeline of workers with the skills for the jobs of the 21st century*
- Focus: *Core competencies* *needed for today's dynamic, flexible, multi-disciplinary worker*

MSSC Format

- Curriculum targeting key areas:
 - Employability
 - Safety
 - Production & Processes
 - Maintenance Awareness
 - Quality Assurance
- Certification available in each critical area – “Certified Production Technician”

Appealing to Students/Parents

- Began with K-12 Administration, Vocational Coordinators
- Counselors brought into discussions early
- Held recruiting events at the high school
- Provided marketing materials
- Up-to-date information on statistics for job opportunities
- Dynamic speaker from industry to give insights
- Hold forums with parents/students
- Have program completers provide testimonials
- Goal of dual credit (AVEP) program

School District Partnership

- Local School District collaboration planned for 2009-2010
- 40 students - Juniors and Seniors
- Two classes
- Delivered on-site at local high school by PCC staff

Additional Benefits...

- Industry guest speakers
- Tours of local manufacturing facilities
- Individual and group projects
- Hands-on experience on-campus and through Mobile Learning Labs
 - Electrical Systems
 - Manufacturing
 - Mechanical Systems
 - Welding
- “Credit for Prior Learning” at Pueblo Community College – up to 7 credit hours



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Questions?

Contact Information

John Vukich

Dean, Economic & Workforce Development

Pueblo Community College

(719) 549-3334

john.vukich@pueblocc.edu

Nancy Zimmer

Development & Activities Coordinator

Pueblo Community College

(719) 549-3335

nancy.zimmer@pueblocc.edu