Innovation in Vocational Training and Education

Chris Paynter, Dean, STEM
Central Piedmont Community College
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The Community College Model in the U.S.

Historical Context

Community colleges are agile and responsive, focused on the needs of industry.
National Community College
Student Success Agenda

Learning
Completion
Labor Market Outcomes
Equity

Source: Aspen Institute
Central Piedmont Community College
Leader in Workforce Development

Our VISION is to remain the nation’s leader in workforce development

Our GOAL is to prepare students for careers in the 21st Century

advanced manufacturing  energy  finance  health care
transportation and logistics  law enforcement  and other fields
Central Piedmont Community College
Recognized Leader

Central Piedmont Community College is a recognized leader in the U.S. for strong collaboration with private sector industry

Community colleges form one element of a "three part" strategy for economic and workforce development:
Central Piedmont Community College
Recognized Leader

serving over
70,000
students each year

6 campuses

98% satisfaction
with business &
industry clients

Enrollment

College-level Classes
40%

Corporate & Continuing Education
40%

Literacy Classes
20%

5,175 International Students from 161 Countries

A minority majority college
Building the Future Workforce to Meet Industry Needs

CPCC is a national leader in the adaptation and integration of "Germanic-style" training models and best practices.

Traditional Apprenticeships:

- groninger
- Rexroth Bosch Group
- SIEMENS
- blum
- PFAFF MOLDS - USA
- Daetwyler
- chiron
- HAWE HYDRAULICS

Bilateral technical certificate programs:
IHK-Karlsruhe/CPCC partnership
Building the Future Workforce to Meet Industry Needs

The CPCC and Siemens collaboration in Charlotte is internationally recognized as a model for education and industry partnerships.

- Apprenticeship pathways in production and maintenance occupations
- CPCC develops customized skills assessments
- Create individualized training plans across multiple job roles
- 14 CPCC faculty trained at Siemens Technik Akademie in Berlin
Ten manufacturers run apprenticeships with CPCC
Structured dialog between the College and companies that aligns coursework with job duties
Changes in technology have resulted in FOUR curriculum versions for local manufacturers in past two decades
Building the Future Workforce to Meet Industry Needs

- Curriculum digitization to modernize manufacturing program—Industry 4.0

- Bridges to Baccalaureate program to increase underrepresented minorities in STEM bachelor programs

Recent federal support through DOL TAAACCT and National Science Foundation that funds innovation in higher education