Innovation Webex:
Exploring Work-Based Learning Strategies through the PTECH Model

Ben Carter
Director of Workforce and Innovation

@EducateIN
Agenda

- Introduction
- Overview
- PTECH
- WBL Partnerships
- CELL
- Q & A
Introduction

- Ben Carter, Director of Workforce and Innovation
Overview and Brief Synopsis of Grad Pathways

• Monthly Innovation Webex
  • Highlighting innovative public–private partnerships
  • Alignment to Graduation Pathways
  • Work Based Learning experiences such as apprenticeships, on-the-job training, and career preparation activities

• January 2019
  • Reaching Potential Through Manufacturing (RPM)
    • Richmond County School System (Augusta, GA)
    • Textron Specialized Vehicles (Augusta, GA)
Earn credits toward a diploma with designation.

- Core 40 - minimum 40 credits
- Academic Honors - minimum 47 credits
- Technical Honors - minimum 47 credits
- General
2

Learn & Demonstrate Employability Skills
Produced defined outcome(s) based on experience.

Defined Outcome Options
- Videos
- Papers
- Resume
- Dual Credit
- Certifications
- Portfolio
- Projects
- Slideshows
- Presentation
- Five Year Goal Plan
- Reflection of Experience
- Letters of Recommendation
- Letter of Employment Verification
- Postsecondary-related Experiences
- Co-Curricular Participation
- Extra-Curricular Participation
- Locally Defined Outcome
Postsecondary-Ready Competencies

Meet at least one of these competencies.

- **Honors Diploma**
  academic or technical
- **SAT**
  reading/writing = 480, math = 530
- **ACT**
  english = 18, reading = 22, math = 22, science = 23 (2 out of 4 needed with at least one in English/Reading and one in Math/Science)
- **ASVAB**
  minimum of 31
- **Industry Certification**
  certification from approved DWD list
- **Apprenticeship**
  federally recognized
- **CTE Concentrator**
  C average or higher in at least 2 advanced HS courses in a state-approved CTE Pathway
- **AP/IB/Dual Credit/ Cambridge International/CLEP**
  C average or higher in 3 courses (1 of the 3 courses must be in core content area or all three must be part of a CTE pathway)
- **Locally Created Pathway**
  approved by SBOE
Exploring Work Based Learning Strategies through the P-Tech Model

Stephen T. Casa
Workplace Learning Coordinator
Ulster BOCES
scasa@ulsterboces.org
Steve Casa – Who is he?

- Workplace Learning Coordinator at Ulster BOCES
- Educator since 1990
  - Business and Distributive Education - NYSED
  - Business Professor - State University of NY
- Worked in industry before and in the middle of education career
  - Harris/3M Document Products
  - Lehman Brothers
  - Gruntal & Co.
  - Advest, Inc.
- National Reform Strategist - Career Academies
  - National Academy Foundation
  - National Career Academy Coalition
- Education Reform and Work Based Learning Consultant
- NYS Certified Work Based Learning Coordinator
What is PTECH?

**Pathways in Technology Early College High School**

- Six-year program
- Culminates with an Associate’s degree from a local community college at no cost to the young scholar
- Focus on a program of study
- A six-year connection to your local business partner advisory committee
Hudson Valley Pathways Academy
Global Competencies at HVPA

- Investigate the World
  Students investigate the world beyond their immediate environment.

- Recognize Perspectives
  Students recognize their own and others’ perspectives.

- Understand the World through Disciplinary and Interdisciplinary Study

- Take Action
  Students translate their ideas into appropriate actions to improve conditions.

- Communicate Ideas
  Students communicate their ideas effectively with diverse audiences.

- Identify an issue, generate questions, and explain its significance.
- Use variety of languages, sources and media to identify and weigh relevant evidence.
- Analyze, integrate, and synthesize evidence to construct coherent responses.
- Develop argument based on compelling evidence and draws defensible conclusions.

- Recognize and express their own perspective and identify influences on that perspective.
- Examine others’ perspectives and identify what influenced them.
- Explain the impact of cultural interactions.
- Articulate how differential access to knowledge, technology, and resources affects quality of life and perspectives.
Water in Our World: Young Scholars Symposium

PBL - Process Based Learning
Standards Based Grading

Appropriately Targeted Feedback

Meaningful Student Reflection
Workplace Learning at HVPA

Work Experiences & Employability Prep

Industry Specific Courses & Certification

Professional Development & Teacher Support

Employability + Relationships = Choices for Students

Partner Engagement & Support

Workplace Learning Challenges & Authentic Experiences

Choices for Students
Work Based Learning: Learn by Doing
Workplace Learning at HVPA

• A six-year continuum that scaffolds young scholars experiences by focusing on the needed skills that will make them successful for their 50+ years after high school

• The idea of Workplace Learning at HVPA is one of integration and inclusion.
Workplace Learning at HVPA

• This integration and inclusion is global in nature with each member of the HVPA family fully engaged, throughout each day and throughout their entire HVPA experience.

• We look at Workplace Learning as the driver for the school and work together to integrate it daily.
A Young Scholar with Choices

Awareness: Through projects and classroom experiences

Exploration: Via research, guest speakers, field trips, etc.

Preparation: Through integration with business partners in relevant settings.

Employability: Through demonstration of mastering employability skills.

Demonstration: Via capstone and internship experiences
HVPA Workplace Learning Standards

- Self-Direction
- Global Citizenship
- Leadership
- Multiple Literacies
- Creativity
Workplace Learning Challenges

Opening Young Scholars Minds Through Partnerships with Business and Industry

What are they?

• Three - four week authentic experiences for Young Scholars
• Real challenges/problems that are being faced by industry partners
• Opportunities for Young Scholars to engage with adults
• Rigorous and relevant with realistic outcomes
Our Model

• A brief tour of the nuts and bolts of a Workplace Learning Challenge
  • Workplace Learning Challenge Planning Framework
  • WPL Challenge Framework Template
  • WPL Challenge Project Management Template
  • Workplace Learning Standards
  • AMETEK Card
Our Current Challenge

- Viking Industries Packaging Challenge
- Multi Chapter Challenge
- Viking WPL Challenge Framework
- Challenge Document Created by Viking
The Importance of Partner Engagement

In order to succeed, programs need strong and engaged business and industry partners at the table.

Building a Broad Based Coalition of Partners

- Identify a Champion or Champions
- Identify strategic leaders and decision makers
- Develop a core group of partners that will become the individual programs/clusters Advisory Board
- Recruit other partners that will fill out the Network of Support based on need
The Importance of Partner Engagement

Develop Board Structure

**Steering Committee/Executive Board**
- Umbrella board that focus on strategic planning
- Focuses on big picture items and setting policy

**Advisory Board**
- Should be made up of 80-85% business partners and have a significant number of industry specific members
- Focus on operationalizing Steering Committee/Executive Board plans
- Works directly with students and school staff
- Represents the program in the community

**Greater Network of Support**
- Identify other partners who can support the cause by providing workplace learning challenges, mentoring, internships, teacher externships, site visits, guest speakers, etc.
- These would be individuals and companies that cannot make the larger commitment to the Advisory Board
The Importance of Partner Engagement

Create Succession and Sustainability Plan

- Identify and engage other individuals from existing partner organizations to create institutional buy in
- Start 501c3 or work with Community Foundation to develop autonomy, fund development, and scholarship opportunities
- Identify grants and specific funding streams to maintain program momentum such as: Carl Perkins Act, private and corporate foundation grants, etc.
How can you integrate Workplace Learning Challenges into your curriculum?

- Lets discuss how you can make this happen in your community
- Provides leadership that is both cutting-edge and action-oriented
- Serves as the leading catalyst for dynamic, innovative education change to dramatically impact student achievement
- Unites schools, communities, universities, and industry to form collaborations for statewide educational and economic improvement
- Believes in positive, sustainable change that is student-driven and ongoing, supportive relationships
Prepare – Achieve - Transform
PTECH is Early College

<table>
<thead>
<tr>
<th>Early College Components</th>
<th>Traditional</th>
<th>CTE (Career &amp; Technical Education)</th>
<th>Polytech</th>
</tr>
</thead>
<tbody>
<tr>
<td>Targeted Student Population</td>
<td>Underserved students seeking 2- or 4-year degree</td>
<td>Underserved students seeking applied degree, technical certification, or industry credential (stackable)</td>
<td>Underserved students seeking applied degree, technical certification, or industry credential for employment with local businesses</td>
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<tr>
<td>Curriculum &amp; Plan of Study</td>
<td>Developed by high school (HS) &amp; higher ed. partner</td>
<td>Developed through HS, higher ed., business, &amp; career ctr. partnership</td>
<td>Developed by HS, higher ed., partner &amp; local employers</td>
</tr>
<tr>
<td>Postsecondary-Going Culture</td>
<td>Immersion in college/university instruction and experiences to prepare students for successful postsecondary transition</td>
<td>Specialized instruction and immersion in career industry pathways to make students workplace ready</td>
<td>Industry-driven instruction and training to immerse students in local businesses leading to employment with those partners</td>
</tr>
<tr>
<td>Support for Student Success</td>
<td>System of supports bolstering academics &amp; personal confidence by closing gaps that often serve as barriers to HS &amp; postsecondary success</td>
<td>System of supports bolstering academics &amp; personal confidence while building skills for workplace success within a given industry</td>
<td>System of supports bolstering academics &amp; personal confidence while building skills for workplace success with a local employer</td>
</tr>
<tr>
<td>Collaboration &amp; Partnerships</td>
<td>HS, higher ed., &amp; community</td>
<td>HS, Higher ed., businesses, career ctrs. &amp; community</td>
<td>HS, higher ed., local employers &amp; community</td>
</tr>
<tr>
<td>Leadership &amp; Stailing</td>
<td>EC buy-in pervasive throughout district &amp; HS with leadership team &amp; credentialed faculty identified</td>
<td>CTE &amp; EC buy-in pervasive throughout home districts, HS’s &amp; career ctr. with leadership teams &amp; credentialed faculty identified</td>
<td>Polytech &amp; EC buy-in pervasive throughout home district(s), HS’s &amp; local business community with leadership teams &amp; credentialed faculty identified</td>
</tr>
<tr>
<td>Data Collection, Analysis &amp; Use</td>
<td>Monitor HS &amp; higher ed. performance data to evaluate &amp; adjust EC program</td>
<td>Monitor HS, higher ed., &amp; employment data to evaluate &amp; adjust CTE EC programming</td>
<td>Monitor HS, higher ed., workplace performance, &amp; employment data to evaluate &amp; adjust polytech EC program</td>
</tr>
<tr>
<td>Rigorous Instruction</td>
<td>Ensure high quality instruction through collaboration with higher ed. partner &amp; rigorous, innovative instructional practices</td>
<td>Ensure high quality instruction through collaboration with higher ed., business partners &amp; emphasis on real-world application</td>
<td>Ensure high quality instruction through collaboration with higher ed., employer &amp; emphasis on local workplace application</td>
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What CELL Does at the State Level

1. Endorses Early College High Schools
2. Partners with Indiana Department of Education and Indiana Commission for Higher Education to develop PTECH resources (ex. rubric)
3. Promotes the model to various local, regional, and state organizations
What CELL Does for Schools...

1. Organizes study visits to PTECH schools
2. Convenes the Indiana PTECH Network
3. Provides PTECH resources
### Get Connected!

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<thead>
<tr>
<th>Title</th>
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<tbody>
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