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## Chautauqua County Education Coalition Manufacturing: Middle to High School Career Pathways - Working Document

### I. Grand Challenge:

**Grand Challenge:** *What do we need to do as a county-wide collaborative to identify and develop middle school to high school career pathways that connect to the manufacturing economy?*

### II. Stakeholder Concept: Stakeholder Identification

#### Primary Stakeholders

Who... (entity)	Who... (person)	Guiding Team Participant?
Chautauqua County Counselors Association	Laurie Whitermore (President) <a href="mailto:lwhitermore@dunkirk.wnyric.org">lwhitermore@dunkirk.wnyric.org</a>	
P-TECH	Bill Smock	
Dream It Do It	Justin Hanft	
Cummins	Lori Jafarjian	
Truck-Lite	Brad VanRiper	
SKF	Larry Tyres	
Chautauqua Striders	Ben Lindquist/Amanda Gesing	
IBEW	David Wilkinson	
Jamestown Technology Teacher & NYSTEA Representative	Daryl Damcott Jessie Perison	
Excelco	Chris Lanski/Kari Novelli	
BOCES II – Technology Program	Jaime Venning	
Titan X	Andy Johnson/Frank Perrone	
Lakeside Precision	Christopher Anson	
High School Guidance Counselor(s)	Scott Cooper Lisa Cooper Laurie Whitermore	
Middle School Guidance Counselor(s)	Jamestown Public School representative...TBD	
Rand Machine	Herm/Jason Ruhlman	
Weber Knapp	Rex McCray	
Producto/Ring Precision	Dale Gier	
Anderson Precision	Tracy Nelson	
Water Street Brass	Matt Churchill	
Artone	Mike Calimeri	

**Comment [JH1]:** When does this group meet? Is there an upcoming schedule for the rest of the year where they could come present to us the material they discuss and focus on and then vice versa we present to them the focus of the coalition and specifically the manufacturing middle to high school pathway group.

**Comment [JH2]:** Dave brought up a point relating to the apprenticeship program through the IBEW and better ways to connect this opportunity to students and the services they provide to manufacturers.

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Cott	Paul Clark	
Nestle Purina	Heather Marshall	
Jamestown Plastics	Jay Baker	
Heidenhain	Mark Shafer	
Blackstone Advanced Technologies	Ricky Turner	
BPU	Dave Leathers/Becky Robins	
MD Electronics	Bruce Dudgeon	
Jamestown Mattress	Jim Pullan	
Serta	Paul Gutzmer	
Boys & Girls Club	Jeff Krug/Kate Piazza	
Girl Scouts		
Boy Scouts	John W.	
Faith Based Groups		
MAST Board Representation		
Society of Automotive Engineers		

**Secondary**

**Supporting Stakeholders**

Who... (entity)	Who... (person)	Guiding Team Participant?
Parents	PTECH Summer Bridge, CTE Credential	
Media & PR 95.3 The Lake- NY/PA Today WDOE- Our County Today	Ryan Hedrick David Rawley	

**Comment [JH3]:** David Compolla is involved with PTECH Workplace Skills committee and is willing to participate with this group.

**III. A Collaborative Process: Agreement on the Process**

**IV. Critical Roles**

- a. Guiding Team Members: PTECH Advisory Group
- b. Convener(s) – Bill Smock/Justin Hanft
- c. Stakeholder Organizations: *(see stakeholder listing)*
- d. Process Facilitator(s) – Justin Hanft
- e. Content Experts
  - i. National Association of Manufacturers – Manufacturing Institute

**Comment [JH4]:** It was agreed upon by the entire group that the workplace skills committee should meet along with the Education Coalition and work specifically on this piece during the breakout sessions

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- ii. DIDI Regions throughout the United States
- iii. Professional Associations (Engineering, Manufacturing)

**V. Shared Outcomes**

**VI. Stakeholder Alignment**

**VII. Gathering the Information**

- a. Identification of Employer Needs
  - i. MAST - Manufacturing Skills Assessment Survey
- b. Inventory of current programming

**Comment [JH5]:** John Ames had survey questions that might be of interest to include into this survey or others done by MAST

**VIII. Develop Current State Map**

Manufacturing Skills Survey conducted by the Manufacturers Association of the Southern Tier has identified the need for 268 manufacturing technologists to fill annual job openings. The highest needs areas are machining, industrial maintenance technology, engineering and welding.

Who... (entity)	Who... (person)	is doing what...	for whom...	and why are they doing it?	How is success measured?
P-TECH	Bill Smock	Building cohort of 40 students annually beginning at middle school that will complete technical training and a two year college degree.	Students, school districts, community college, and employers	To align students with career opportunities in welding and machining	Throughput, cohort development. Successful program completion. Placement in job opportunities in local manufacturing.
DIDI	Justin Hanft	Growing the pipeline of students interested in manufacturing careers	Students, school districts, community college, and employers	Increase the supply of workforce interested in manufacturing	Throughput. Entry and exit surveys from events. Internship placement. Job placement.
Jamestown High School – Technology Academy Program	Dave Currie, Technology Coordinator	Provide students with computer aided design, building technology, manufacturing technology,	Students in Jamestown District, JCC technology programs, and employers.	Prepare students with an emphasis in technology and readiness for the world of work.	Throughput. Graduation. Placement in further technology programming. Employment.

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		information technology, small engine & motorcycle repair, and video production.			
JCC - MTI@JCC Expansion	David Johnson, JCC	Expansion onto the MTI@JCC facility	Students, JCC, employers	Additional capacity to accommodate machine tools and industrial machine technology programming.	Project completion. Continued enrollment growth.

**Comment [JH6]:** Expand this list to explain each role each stakeholder plays in this area amongst the group.

**IX. Understanding the Challenge**

Fulfill the need for 268 manufacturing technologists to fill annual job openings.

**X. Future State Picture**

Manufacturers are able to secure the workforce they need to retain and grow operations in Chautauqua County.

**XI. Catalytic Projects**

- a. Dream It Do It Programming
- b. P-Tech
- c. Jamestown High School – Technology Academy Program
- d. Jamestown Community College – MTI@JCC Expansion

**XII. Restructuring the Work**

**XIII. Strategic Alignment**

**XIV. Continuous Improvement**

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**Notes:**

**November 20<sup>th</sup>, 2014**

Adopt-a-School

- Increase amount of pairings

Additional Helpful Materials

- Inventory of Chautauqua County Manufacturers
- Map of Currently Involved Stakeholders
  - Breakdown of Private/Public/Social Enterprises

Secondary Stakeholders

- Manufacturing Employees
  - Expand-Dream It Do It Dream Team
  - Expand-Chautauqua Striders & Dream It Do It E-Mentoring Program
- Full Range of Students-Not just struggling students/CTE students
  - Video Competitions
    - Inspire/Stimulate a cultural shift to these types of careers through programming

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- <http://isciwny.com/job-seekers2/>

Supporting Stakeholders

- Parents
  - High Profile Marketing
    - Billboards
    - Manufacturing Open Houses
    - Manufacturing Career Opportunities: Make the connection of money & education
      - What can I make?
      - What skills do I need?
      - How do I get there?