

Understanding, Defining, and **Building Career** Pathway Systems

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Agenda

- I. Understanding Career Pathways
- II. Defining Career Pathways
- III. Elements of a Career Pathway System
- IV. Building a Career Pathways System
- V. Organizing for Career Pathways
- VI. Career Pathway Programs
- VII. Sample Program Components
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- IX. Measuring Career Pathways

Understanding Career Pathways

Career Pathways ARE about continuously improving the connection between education, the economy and workforce systems based upon decades worth of experience and grounded in a tradition of strong CTE, support systems and workforce systems

Understanding Career Pathways

Career Pathways is <u>NOT</u> a panacea for all education, economic and workforce problems

Understanding Career Pathways

"A theory that explains everything, explains nothing" — Karl R. Popper

It is important to understand <u>what we</u> <u>mean</u> by career pathways

Defining Career Pathways Joint Letter from HHS, USDOE and USDOL (4/12/2012)

Career pathways are:

A series of connected education and training strategies and support services that enable individuals to secure industry-relevant certification and obtain employment within an occupational area and to advance to higher levels of future education and employment in that area." (Dann-Messier, Oates, and Sheldon, 2012).

Defining Career Pathways Workforce Innovation and Opportunities Act (WIOA)

CAREER PATHWAY.—The term "career pathway" means a combination of rigorous and high-quality education, training, and other services that—

- A. <u>aligns with the skill needs of industries</u> in the economy of the State or regional economy involved;
- B. <u>prepares an individual to be successful</u> in any of a full range of <u>secondary or postsecondary</u> education options, <u>including apprenticeships</u> registered under the Act of August 16, 1937 (commonly known as the "National Apprenticeship Act"; 50 Stat. 664, chapter 663; 29 U.S.C. 50 et seq.) (referred to individually in this Act as an "apprenticeship", except in section 171);
- C. <u>includes counseling</u> to support an individual in achieving the individual's education and career goals;
- D. includes, as appropriate, <u>education offered concurrently with and in the same context as workforce</u> <u>preparation activities</u> and training for a specific occupation or occupational cluster;
- E. <u>organizes education, training, and other services to meet the particular needs of an individual in a</u> <u>manner that accelerates</u> the educational and career advancement of the individual to the extent practicable;
- F. enables an individual to attain a secondary school diploma or its recognized equivalent, and at least one recognized postsecondary credential; and
- G. <u>helps an individual enter or advance</u> within a specific occupation or occupational cluster

USDOL 6 Key Elements of a Career Pathway System



Elements of a Career Pathway System

Alliance for Quality Career Pathways

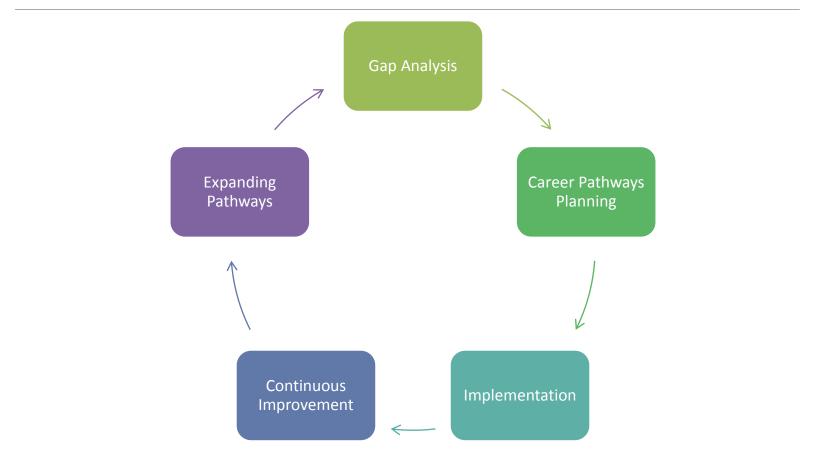


Elements of Career Pathway Systems (DOL, HHS, DOE)

ALIGNED	✓ Secondary, Postsecondary, Workforce Systems including Adult Education
CONNECTED	 Rigorous, sequential, connected, and efficient coursework that links basic education and skills training and integrates education and training
FLEXIBLE	✓ Multiple entry and exit points
SUPPORTIVE	 Comprehensive support services, such as career counseling, childcare, and transportation Financial supports or flexibility to accommodate labor market demands in order to allow individuals to meet their ongoing financial needs and obligations
ENGAGED WITH BUSINESS	✓ Active engagement of business in targeted industry sectors that are important to local, regional, and/or state economies
CONTEXTUALIZED	 ✓ Curriculum and instructional strategies that make work a central context for learning and developing work readiness skills (i.e., contextualized learning)
ACCELERATED	 ✓ Implementation of strategies that accelerate the educational and career advancement of participants (e.g., credit for prior learning)
ACCOMODATING	✓ Organized services to meet the particular needs of adults (e.g., accommodating work schedules)
SECTOR-FOCUSED	✓ A focus on secondary and postsecondary industry-recognized credentials, sector-specific employment, and advancement over time in education and employment within that sector
COLLABORATIVE	✓ A collaborative partnership among workforce, education, human service agencies, business, and other community stakeholders to manage the system

U.S. Department of Education, Office of Career, Technical, and Adult Education. (2015, February).

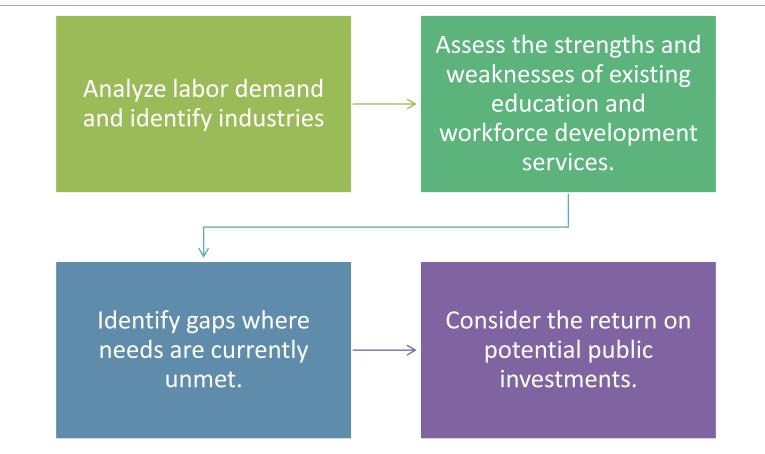
Steps to Building a Career Pathway System



Jenkins, D. and Spence, C. (2006), p. 6.

Gap Analysis

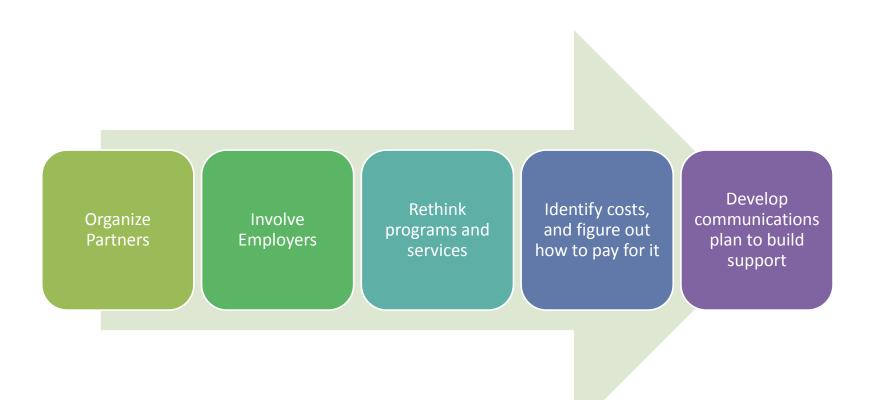
Target industries and jobs that will support individual advancement and regional growth



Jenkins, D. and Spence, C. (2006), p. 5.

Career Pathway Planning

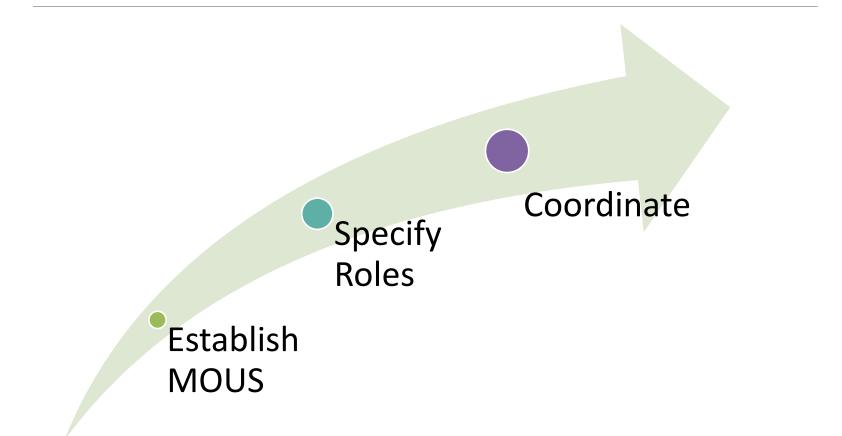
Form a partnership to develop a career pathways plan



Jenkins, D. and Spence, C. (2006), p. 5.

Implementation

Coordinate the work of the partners



Jenkins, D. and Spence, C. (2006), p. 5.

Continuous Improvement

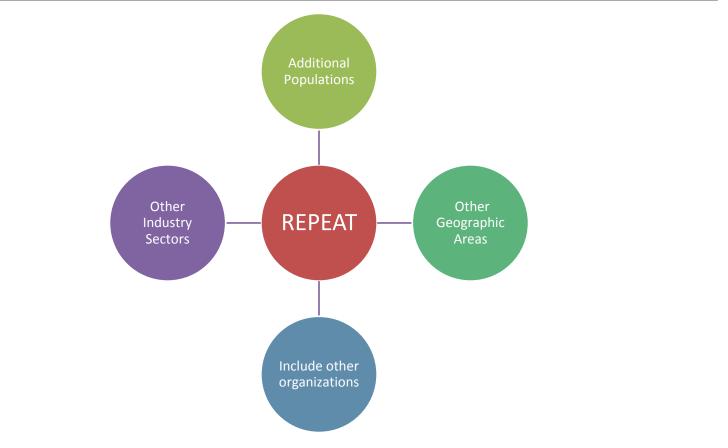
Evaluate and continuously improve career pathways programs and services



Jenkins, D. and Spence, C. (2006), p. 5-6.

Expanding Pathways

Expand the pathways process to involve other partners, populations of participants and sectors



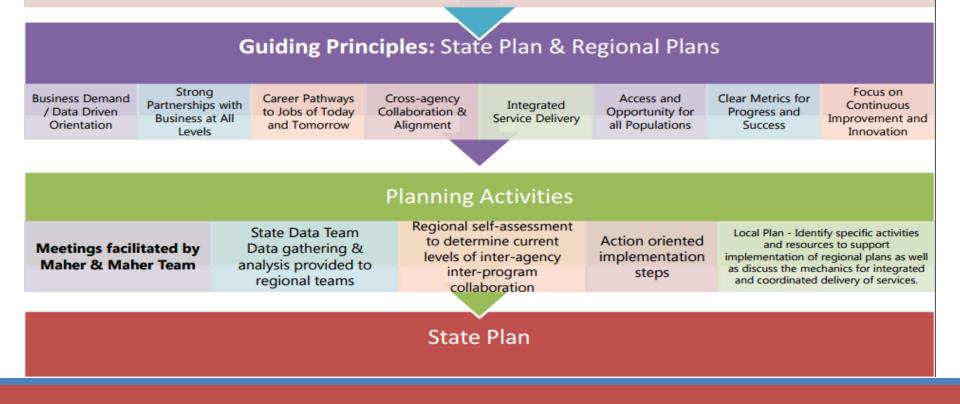
Jenkins, D. and Spence, C. (2006), p. 5-6.

Congruent to Regional Planning

WIOA Planning Framework

Overall Vision: Illinois Workforce, Education, Economic Development State Leadership Team

"Business driven talent solutions that integrate education, workforce and economic development resources across systems to provide businesses, individuals, and communities with the opportunity to prosper and contribute to growing the state's economy."



Building an Integrated Regional Planning Framework: Self-Assessment for Regional Teams

III. Self-Assessment Questions

Regional Team:	Name:			Organiza	ation:		
	ctions that follow, please select a ere your region stands in relation		10.0				
				Rating			
Factors to	o Consider:	Have not started	Just beginning	Making progress, but work to do	Advanced, but want to strengthen	Advanced	Comments / Notes
		1	2	3	4	5	
	prate economic development, w ve the economic growth and c						
partners have jointly reviewed av	ce development, education, and oth ailable data and validated that data d target industries for strategic focus	U	0	0	0	0	
	ners in our region have organized or vices team to coordinate outreach to r region.		0	0	\bigcirc	0	
strategic efforts, investments, an	natically, and regularly collaborate ding stream "silos" to align our goals d service delivery activities to meet nd job seeker/worker customers in c		0	0	0	0	

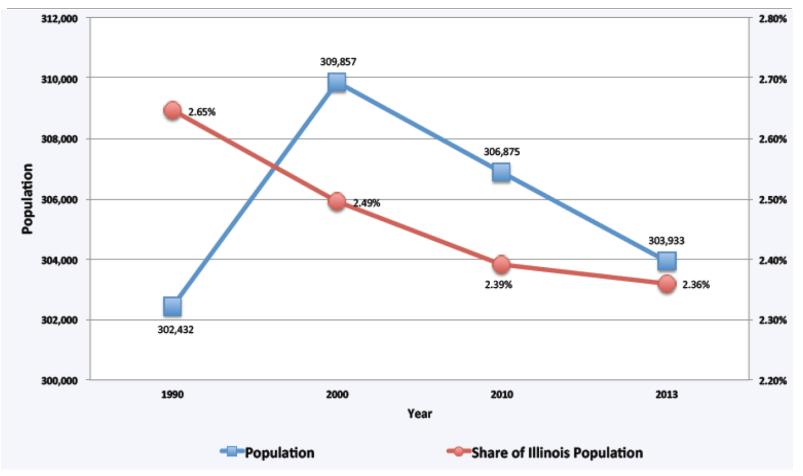




Gap Analysis Findings Example

Current Implications	Future Implications
has been focusing on providing more work-based learning opportunities for customers (On-the-Job Training, Work Experience for youth and adults, Incumbent Worker Training)	Different recruitment strategies will need to be developed due to the75% out-of-school mandate and decreased youth population
opportunities including OJT, Work Experience, and training for adults and youth	will count less GED and Adult Ed hours and will require more work-based activity
manufacturing and healthcare programs, including transition and job skills in the classroom or to the workforce	recruitment efforts, career awareness, and transitioning activities within classroom
offers a dual credit Health Careers program to recruit high school students in the health sciences career pathway	will refer former incarcerated individuals for OJT

Data Analysis Example



Organizing for Career Pathways



Organizing for Career Pathways



Career Pathway Programs

The Alliance for Quality Career Pathways

Three features of a quality career pathway:

- 1. Well-connected and transparent education, training, support services, and credentials within specific sector or cross-sector occupations (often delivered via multiple linked and aligned programs)
- 2. Multiple entry points that enable well-prepared students, as well as targeted populations with limited education, skills, English and work experiences, to successfully enter the career pathway. Targeted populations served by career pathways may include adult education or other low-skilled adult students, English Language learners, offenders or ex-offenders, high school students, disconnected or "opportunity" youth, some former military personnel, un- or under-employed adults, or others
- 3. Multiple exit points at successively higher levels that lead to self- or family-supporting employment and are aligned with subsequent entry points.

Career Pathway Programs

The Alliance for Quality Career Pathways

The 4 Essential Functions of a Quality Career Pathway

- 1. Participant-focused education and training;
- 2. Consistent and non-duplicative assessments of participants' education, skills, and assets/ needs;
- 3. Support services and career navigation assistance to facilitate transitions, and; and,
- 4. Employment services and work experiences.

Sample Program Components: Work-Based Learning

Focus on Education, Foundational Discipline/Soft-Skills, Learn by Doing

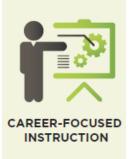
All pathways participants engage in a personalized and coordinated continuum of work-based learning (WBL) experiences designed to help them master and demonstrate academic, technical, and foundational professional skills



Sample Program Components: Career-Focused Instruction

Focus on Education and Foundational Disciplines/Soft-Skills

The career-focused instructional sequence relates to real-life situations and experiences, focuses on the application of learning, and integrates academic and technical content with foundational professional skills



Sample Program Components: Progressive Design

Focus on Education and Learn by Doing

Pathways enable participants to gain entry to or advance within a given career cluster, facilitate efficient transitions to non-duplicative continuing education, and incorporate stackable and portable industryrecognized credentials



Sample Program Components: Participant Supports

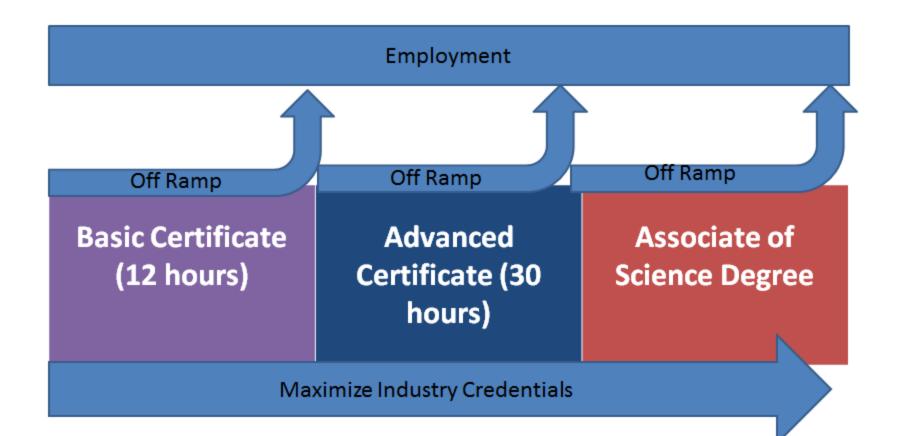
Pathways participants are provided supports to ensure their successful selection and navigation of the pathway and entry into the career field



Sample Career Pathway Program Components

Adult Education and English as a Second Language	High School	Offender and Ex- Offenders	Returning Adults
 Bridge Programs Integrated Education and Training (IET) Opportunities Stackable credentials Integrated literacy and civics education 	 Dual Credit Early College Credit Co-requisite remediation Youth apprenticeship Pre- Apprenticeship Work-Based Learning 	 Re-entry Counseling Transition to re- entry initiatives Tutoring services such as Peer Tutoring Child-care services Secondary school credit 	 Math Refreshers Placement Testing Career Counseling Financial Aid Counseling

Examples: Stackable Credentials



Harper College

Advanced Manufacturing Technology AAS

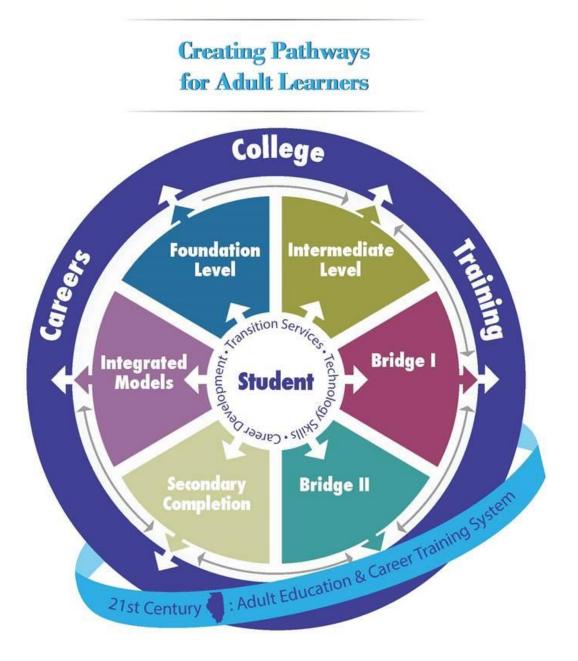
Step 1: Manufacturing Production Certificate (full time = 1 semester; part-time = 1 year)

This 16-hour certificate is designed to build the core competencies of manufacturing production to prepare students for internships and entry level positions in manufacturing. MFT102, MFT104, MFT108, and MFT109 prepare the student for an industry recognized certification assessment. Students who successfully pass all four assessments will be recognized as Certified Production Technicians by the Manufacturing Skill Standards Council (MSSC).

MFT 102	Intro to Manufacturing & Safety (MSSC)	4	MFT 109	Intro to Manufacturing Maintenance (MSSC)	2
MFT 104	Quality and Measurement (MSSC)	2	MTH 097	Tech Math	3
MFT 108	Manufacturing Processes (MSSC)	3	MFT 119	Manufacturing Internship	2

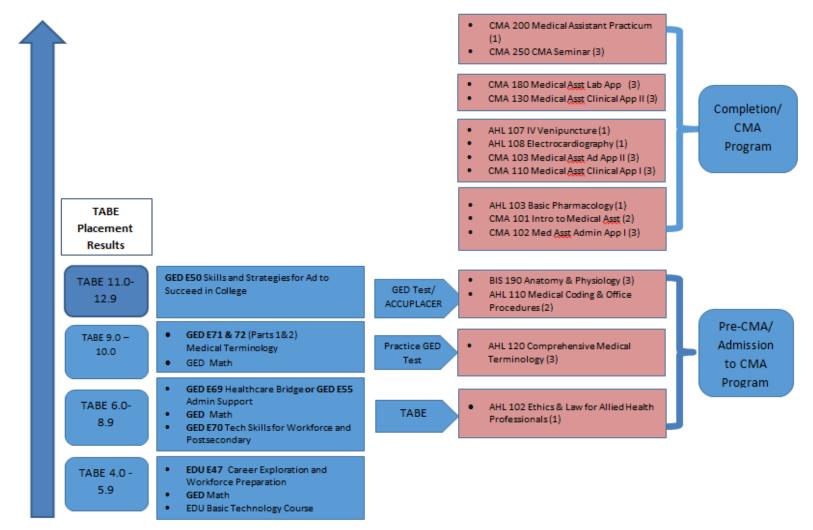
		Step 2:	Select	a fi	eld of specialization			
Mechatronics/Automation		Precision Machining			Metal Fabrication		Supply Chain Management/Logist	ics
Step 3:	Obtai	n an internship related to field of	speciali	izat	ion. Work 16 hours per week v	vhile con	tinuing coursework.	
		Step 4: Complete two	or three	e ce	rtificates in the specialization f	ield.		
Electrical Maintenance Certificate		Computer Numerical Control Oper I	i – – – – – – – – – – – – – – – – – – –	1	Basic Welding Certificate		Inventory/Production Control	
10-hour certificate		15-hour certificate			16-hour certificate		12-hour certificate	
ELT110 Intro Electronics	4	MFT105 Machine Processes I	4		MNT111 Prints & Schematics	2	SCM 101 Supply Chain Mgt	3
ELT142 Electrical Wiring	2	MFT123 Intro CNC Machining	3		WLD110 Welding I	3	SCM 120 Production Control	3
ELT215 Industrial Controls	4	MFT125 Turning – Conv to CNC	3		WLD210 Welding II	3	SCM 122 Inventory Control	3
+		MFT120 Machine Processes II	3		WLD211 Welding III	4	SCM 226 Material Requirements	3
Industrial Electronics Certificate		MNT111 Prints & Schematics	2		WLD212 Welding IV	4	Planning	
6 additional hours							+	
ELT120 Intro Ind Elec Mainte	2	★			+		Purchasing Certificate	
ELT140 PLCs	2	Computer Numeric Control Oper II		1	Welding Fabrication Certificate		6 additional hours	
ELT143 Advanced Electrical	2	11 additional hours			13 additional hours		SCM 125 Purchasing	3
+		MFT128 Milling - Conv to CNC	3		WLD 225 Welding Blueprints	2	SCM 259 Advanced Purchasing	3
Mechatronics/Automation Cert		MFT130 Machining Blueprints	1		WLD240 Cutting Processes	3	*	
10 additional hours		MFT201 Advanced CNC	5		WLD245 Fabrication I	4	Physical Distribution Certificate	
ELT135 Optics & Sensors	2	MFT265 Properties of Materials	2		WLD250 Fabrication II	4	6 additional hours	
ELT144 AC & DC Motors	2						SCM 121 Physical Distribution	3
ELT145 Variable Freq Drive	2						SCM 227 Just-in-Time/Lean	3
ELT161 Industrial Controls	4							
		Ste	p 5: Cor	mpl	ete AAS Degree			
ENG101 Composition	3	ENG101 Composition	3		ENG101 Composition	3	ENG101 Composition	3
ENG103 or SPE101	3	ENG103 or SPE101	3		ENG103 or SPE101	3	ENG103 or SPE101	3
Science, Humanities, Soc Sci	9	Science, Humanities, Soc Sci	9		Science, Humanities, Soc Sci	9	Science, Humanities, Soc Sci	9
Approved Tech Electives	3	Approved Tech Electives	3				Approved Technical Electives	5

Step 6: Advance to a 4-year institution to pursue a baccalaureate degree.



Triton College

Certified Medical Assistant ICAPS



Career Pathway Metrics: The Alliance for Quality Career Pathways

Continuous Improvement	Performance Measurement
Criteria Core elements of quality career pathway programs and guiding principles of state and local/regional career pathway systems	
Quality Indicators Indicators that elements are working and guiding principles are achieved	Shared Interim Outcome Metrics Evidence-based indicators of progress toward desired participant outcomes
	Shared Performance Metrics Indicators of desired participant outcom

Center for Postsecondary and Economic Success at the Center for Law and Social Policy and the Alliance for Quality Career Pathways. (2013, February).

Career Pathway Metrics: The Alliance for Quality Career Pathways

- Criteria for defining high-quality systems and programs;
- Quality indicators for all criteria that signal how well the systems and programs are functioning to support the achievement of desired participant outcomes;
- Interim participant outcome metrics that indicate progress toward achieving desired longer-term outcomes; and
- Performance outcome metrics that are shared across education, training, employment, and other public, private, and philanthropic systems involved in the career pathway system (e.g. Shared measures in WIOA Title I and Title II)

Center for Postsecondary and Economic Success at the Center for Law and Social Policy and the Alliance for Quality Career Pathways. (2013, February).

Sample Metrics based upon ACQP

Sample Criterion: A clear referral method and procedures has been adopted for referrals to services (Center, et al., 2013).

Sample Quality Indicator: Staff are knowledgeable about referral policies and use them to refer clients / students appropriately (Center, et al., 2013).

• Sample Interim participant outcome metrics: Data analysis suggests students who are referred to appropriate services fare better than students who do not receive referrals, despite eligibility.

✓ WIOA Outcome Measure: Attainment of a Degree or Certificate (Youth Measure)

Entered Employment (Adult Measure)

Center for Postsecondary and Economic Success at the Center for Law and Social Policy and the Alliance for Quality Career Pathways. (2013, February).

Questions?

For Questions about this power point contact:

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