Adult Career Pathways TOOLKIT



February 2013

Prepared by Debra Mills, CORD



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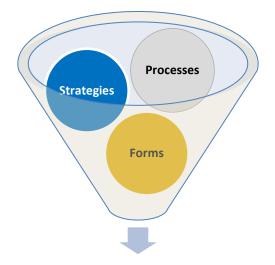
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Introduction

Welcome to the Adult *Career Pathways Toolkit*. The purpose of the toolkit is to help educators and other stakeholders understand their roles in developing and delivering Adult Career Pathways (ACP) programs.



Adult Career Pathways Toolkit

It is recommended that the reader peruse NCPN's *Overview of Career Pathways Toolkit* prior to reading this toolkit (downloadable from the NCPN website, <u>www.ncpn.info</u>). The reader should be familiar with the ten components of OVAE's program of study (POS) design framework:

- 1. **LEGISLATION AND POLICIES:** Federal, state, and local legislation or administrative policies promote POS development and implementation.
- 2. **PARTNERSHIPS:** Ongoing relationships among education, business, and other community stakeholders are central to POS design, implementation, and maintenance.
- 3. **PROFESSIONAL DEVELOPMENT:** Sustained, intensive, and focused opportunities for administrators, teachers, and faculty to foster POS design, implementation, and maintenance.
- 4. **ACCOUNTABILITY AND EVALUATION SYSTEMS:** Systems and strategies to gather quantitative and qualitative data on both POS components and student outcomes are crucial for ongoing efforts to develop and implement POS.

- 5. **COLLEGE AND CAREER READINESS STANDARDS:** Content standards that define what students are expected to know and be able to do to enter and advance in college and/or their careers comprise the foundation of a POS.
- 6. **COURSE SEQUENCES:** Non-duplicative sequences of secondary and postsecondary courses within a POS ensure that students transition to postsecondary education without duplicating classes or requiring remedial coursework.
- 7. **CREDIT TRANSFER AGREEMENTS:** Credit transfer agreements provide opportunities for secondary students to be awarded transcripted postsecondary credit, supported with formal agreements among secondary and postsecondary education systems.
- GUIDANCE COUNSELING AND ACADEMIC ADVISEMENT: Guidance counseling and academic advisement help students to make informed decisions about which POS to pursue.
- 9. **TEACHING AND LEARNING STRATEGIES:** Innovative and creative instructional approaches enable teachers to integrate academic and technical instruction and students to apply academic and technical learning in their POS coursework.
- 10. **TECHNICAL SKILLS ASSESSMENTS:** National, state, and/or local assessments provide ongoing information on the extent to which students are attaining the necessary knowledge and skills for entry into and advancement in postsecondary education and careers in their chosen POS.

<u>The final section of the toolkit consists of forms that will help you in obtaining information</u> <u>about your current situation and how best to proceed.</u>

Good luck in your endeavors in the Career Pathways arena!

What Are Adult Career Pathways (ACP)?

Adult Career Pathways represent a specialized application of Career Pathways. A Career Pathway is

a coherent, articulated sequence of rigorous academic and career/technical courses, commencing in the ninth grade and leading to an associate degree, baccalaureate degree and beyond, an industry-recognized certificate, and/or licensure. The Career Pathway is developed, implemented, and maintained in partnership among secondary and postsecondary education, business, and employers. Career Pathways are available to all students, including adult learners, and lead to rewarding careers. (Hull et al., *Career Pathways: Education with a Purpose*, CORD, 2005)

An Adult Career Pathway focuses more on the special needs and circumstances of adults, especially those who were not initially successful in public education. Whereas the target population of Career Pathways is high school students, the target populations of Adult Career Pathways include demographics such as high

ALL COURSE SEQUENCES should have multiple entrances (including for the adult learner) and multiple exits.

school dropouts, holders of GEDs (but no further credential), high school graduates with no college, foreign-born residents, ex-offenders, re-entering workers, and employed persons who seek to upgrade their skills. (For more on Adult Career Pathways, see Hinckley et al., *Adult Career Pathways: Providing a Second Chance in Public Education*, CORD, 2011.)

Our focus will include the many career-limited *adults* who do not have the education and/or training necessary to earn a "living wage." (For statistics on "living wages" for localities across the country, visit the "Living Wage Calculator" at <u>http://www.livingwage.geog.psu.edu</u>.)

Career-limited adults need a second chance in public education that enables them to enter and exit the Career Pathways system as their circumstances dictate. ACP provide the necessary flexibility in points of entry and exit. The need varies from region to region, and the partners in each region must work together to define the role of ACP in the broader communitywide Career Pathways system.

The population of American adults who need a second chance in public education comprise the following groups (which sometimes overlap):

- 1. High school dropouts
- 2. High school completers who did not pursue further education and training

- 3. College noncompleters
- 4. Returning veterans who entered military service after high school
- 5. Immigrants
- 6. Criminal offenders who have completed their terms of incarceration
- 7. Adults who need to retool (to change careers, reenter the workforce, or advance in their present careers)

National Vision of ACP

As noted above, ACP programs work within the Career Pathways umbrella and offer multiple entrance and exit points for adults. An ACP program consists of the guidance, remediation, curricula, and other support elements required to enable career-limited adults to enter the workforce and progress in rewarding careers. It is a systemic framework that connects adult education programs, work, and postsecondary education. Each step in an ACP program is designed to prepare the student for the next level of work and education.

Typical ACP program components include the following:

- A "prep stage" designed to prepare participants for job entry and college study
- Industry-focused curriculum
- A multistep career ladder
- Partnerships with community and government agencies
- Part-time employment (usually beginning after completion of the prep stage)
- Personal and academic support services

ACP programs are designed to *expedite transitions*—from unemployment to employment, from underemployment to better employment, or (as in the case of displaced workers) from one industry to another. (Hinckley et al., *Adult Career Pathways: Providing a Second Chance in Public Education,* CORD, 2011)

ADULT EDUCATION *is at a crossroads and finds itself changing to meet the new demands of a global economy.* The following graphic describes some of the key aspects of ACP programs.

 ACP is a systemic framework that consists of a connected series of education programs, with integrated support services and work experience, that enables adults to combine work and learning.
•ACP is an economic development <i>process</i> —the synergy created when best practices and resources are aligned to target an employment sector that is critical to a regional labor market.
 Business (the customer) drives the process by identifying targeted sectors, skills, and competencies and reviewing curriculum.
 ACP programs empower adult education students to enter postsecondary education and earn degrees, certificates, and/or industry credential.
•All training counts (<i>college credit</i>). ACP programs provide academic credentials and increased educational opportunities .
•ACP programs involve collaborative efforts among stakeholders and the joining of educational missions (workforce, academic, remediation, student affairs and categorical programs) to eliminate silos.
•ACP programs bridge gaps between <i>adult basic</i> education and college and between remedial and for- credit courses
 ACP programs use contextualized, integrated academics that optimize learning gains and career and college readiness.

The following graphic describes the "new basics" toward which adult education is evolving via ACP programs.

Customer	Student is the primary customer	\rightarrow	Students and employers are the customers
Goal of Curricula	Life skills are the primary goal	\rightarrow	Work readiness skills and preparation for postsecondary education are the primary goals
Content focus	Applying literacy, numeracy and English language learning to everyday life tasks	\rightarrow	Literacy and numeracy and English language learning as well as thinking and reasoning skills such as problem solving, team work and following instructions
How work readiness is taught	Might include some employment-related tasks like filling out a job application	\rightarrow	Teaches basic skills in a work context and stresses good work habits such as punctuality, diligence, communication, and appropriate dress and behavior
Program focus	Driven by students' personal goals, needs and interests	\rightarrow	Driven by students' employment goals, the skill needs of family-sustaining jobs and the entry requirements for postsecondary education and training
End goal	Most Adult Education students never achieve a GED, much less the postsecondary education that is the key to success in today's economy. ⁹	\rightarrow	Most students achieve a high level of basic and workforce readiness skills and are prepared to enter postsecondary education and training and family-sustaining jobs.

Source: Guide to Adult Education for Work: Transforming Adult Education to Grow a Skilled Workforce, National Center on Education and the Economy, 2009

FORM 1	FORM 1 will help you obtain a "pulse" of the adult education system in your community and whether the	
	system is moving toward the "new basics."	

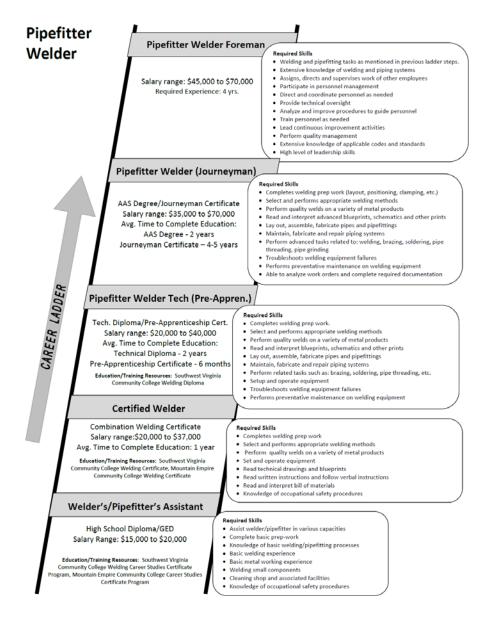
Career Ladders (Maps)

Every ACP program can be represented visually by a ladder or map that illustrates the steps to further education and employment. (In the literature, the terms *ladder* and *map* are used interchangeably. We will use the term *ladder*.) The key components of pathway ladders commonly include the following:

- Potential jobs in the pathway industry
- The progression of education and training within the pathway
- Salary information
- Service providers

- Partnerships
- Support services
- Linkages between pathway components

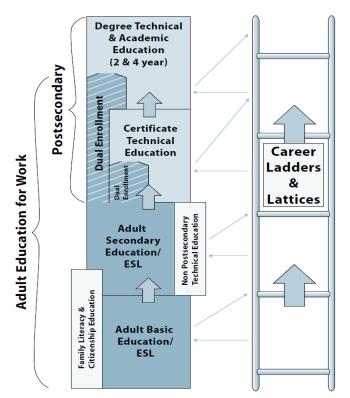
Following is a sample career ladder for a pipefitter welder for the coal mining industry in southwest Virginia.



Pathway ladders are developed as information is collected on the pathways they represent (e.g., labor market data, related postsecondary courses). Each regional partnership must decide what industry sector(s) and related occupations are imperative for the region and develop the

corresponding career ladders. The ladders should be updated regularly to reflect changes in partners or course requirements or other relevant changes.

In an ACP program, the academic ladder should be aligned with the career ladder of the targeted industry, as in the following illustration.



Career Pathways System

Source: Guide to Adult Education for Work: Transforming Adult Education to Grow a Skilled Workforce, National Center on Education and the Economy, 2009

Key features of a comprehensive, fully implemented ACP system should include:

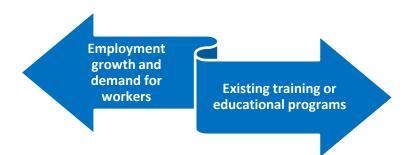
- Basic skills instruction contextualized for a specific occupation or cluster of occupations within an industry or field
- Support services, such as counseling, academic advising, tutoring, career counseling, financial aid, and job placement
- Curriculum and coursework that are broken into steps that are aligned with and articulate to academic and career advancement

- Visual diagrams or "road maps" that show multiple entry and exit points and depict vertical and lateral movement within occupations or career clusters
- Transition or "bridge" programs designed to help adults improve their basic skills and prepare for postsecondary-level courses, especially math, reading, and writing courses
- Community and business partnership arrangements that provide support services (e.g., childcare, transportation, and case management), job shadowing, and internships

Resource: In November 2010, ACE of Florida, the Florida Department of Education, and other partners broadcasted a three-hour webinar about building Career Pathways for Florida's adult students. The webinar gives viewers a clear picture of the Florida initiative and how adult education and literacy programs can participate. For an in-depth look at Florida's vision for the ACP system, review the webinar at <u>http://www.wfsu.org/vod/ace-111010.php</u>. Please keep in mind that your state's vision may be different.

What to Do First

One of the first steps in building an ACP program is to identify an employment sector and a suitable target population. This should be done in partnership with business and industry. (See NCPN's Partnership Toolkit and NCPN's Effective Advisory Committees Toolkit, both downloadable from the NCPN website, <u>www.ncpn.info</u>.) When selecting a sector to focus on, consider two main factors:



While you may identify several potential sectors, consider the one that presents the most opportunities for growth and development of Career Pathways. What are the possible entry points for the adult learner? Once an industry sector has been targeted and occupations identified by industry, programs available to high school students and AE/ESOL learners should be identified. What secondary and postsecondary programs are available? Are those programs candidates (with possible modifications or "bridge" programs for adults) for entry into the pathway for the targeted audience?

FORM 2	FORM 2 will serve as a beginning inventory tool.

Frameworks for the Adult Learner

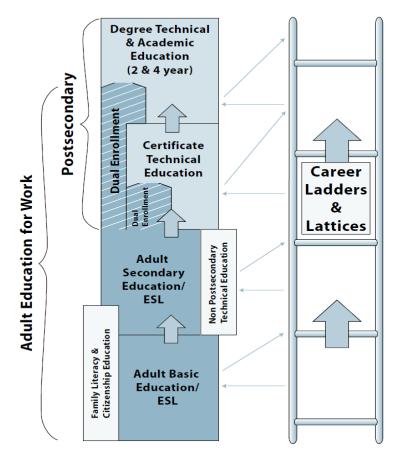
For educators, the most important student outcome is successful transition to postsecondary education and careers. However, before most adult learners can make that transition, they must improve their basic skills. The structure of an ACP will always differ from that of a conventional grade-9–14 Career Pathway. The delivery systems of AE and ESL are usually poorly articulated and do not allow the adult learner to transition to postsecondary education and training without extensive remediation. Whereas grade-9–14 Career Pathways give students three or more years of high school to explore careers and acquire soft skills and basic technical skills, the adult learner in an ACP program must usually cover the same territory in one semester. Another key difference has to do with focus. In an ACP system, all levels are knitted together to ensure that each student achieves the requisite skills and a recognized credential with the ability to progress further in the education and training pipeline. Progressing through these levels is not necessarily linear, depending on the skill level of the individual.

Career Ladders and Laddering Curriculum

The ACP concept is founded on an approach to curriculum and career preparation in which the student (who may also be an employee) progresses through a series of steps, like rungs on a ladder. Hence the terms *career ladder* and *ladder curriculum*.

As illustrated in the graphic on the following page, each academic ladder should be aligned with the corresponding career ladder in industry.

A career ladder is a series of steps or occupational levels within a given company or occupation. Employees work their way up career ladders by increasing their knowledge and skills and contributing to the success of the companies for which they work. In most cases, each rung requires a higher level of knowledge and skills than the one(s) below it and rewards the employee with higher pay and/or other benefits. Whether, and how fast, a person advances along a career ladder is determined by his or her ability to meet *standards*, specific requirements as to what the person must know and be able to do before moving up. Some standards are developed locally by individual companies. Others are developed by government agencies, professional associations, or advisory boards that oversee entire industries. In an ACP, cooperating employers—some of whom might normally be competitors—develop a common career ladder that is applied consistently among the ACP students who work for those employers. (Hinckley et al., Adult Career Pathways: Providing a Second Chance in Public Education, CORD, 2011)



Source: Guide to Adult Education for Work: Transforming Adult Education to Grow a Skilled Workforce, National Center on Education and the Economy, 2009

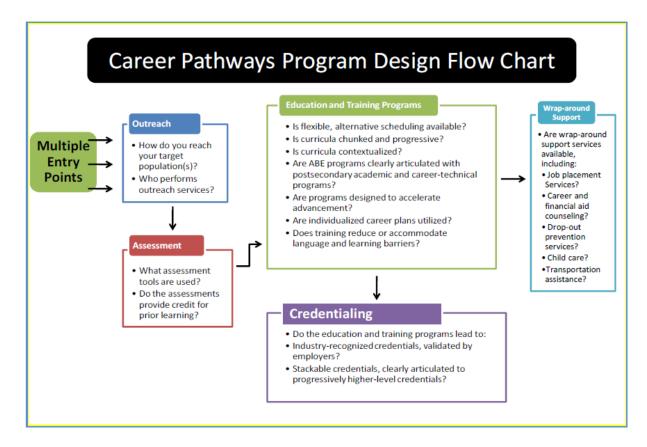
Just as a career ladder denotes a series of job-performance levels, each corresponding to certain knowledge and skills within a given occupational area, a ladder curriculum consists of a series of educational levels that students are expected to attain as they move through their programs. When the programs are career-focused, as is the case with ACP, the knowledge and skills to be mastered through the ladder curriculum should be determined jointly by educators and employers. Employers are uniquely qualified to say what employees in their fields should know and be able to do. By definition, every ACP curriculum advisory committee should include representatives of the employers for whom the ACP students will work. (Hinckley et al., *Adult Career Pathways*)

There is no standard template for creating a ladder curriculum. Because of its flexibility, the ladder curriculum model can be customized for different settings. In some cases, it might not

take the form of a ladder—in which students progress in a strictly linear fashion—but rather a lattice or web, allowing for lateral movement as well. Not all students are able to work through their educational programs sequentially without stopping. Some make lateral moves, exiting their programs to take care of personal needs, work full time, or acquire additional knowledge and skills appropriate to their current levels before progressing to the next levels.

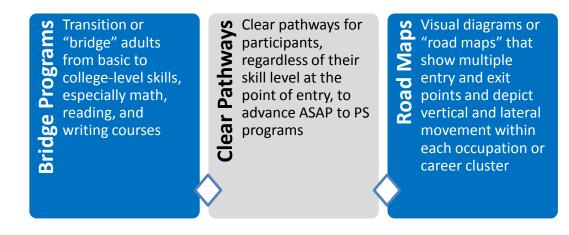
Program Design

Program design involves considerations such as outreach, assessment, and credentialing. The following flowchart, developed by Social Policy Research Associates on behalf of the U.S. Department of Labor, Employment, and Training Administration (August 2011), provides questions that should be asked during the program design process.



Every ACP should consist of three design components: (1) The main focus is on transitioning or **bridging** adults from basic to college-level skills, especially math, reading, and writing courses. (2) Every program should provide <u>clear pathways</u> for participants, regardless of their skill level at the point of entry. (3) Every program should provide a visual diagram or <u>road map</u> that shows multiple entry and exit points and depicts vertical and lateral movement within each occupation or career cluster.

The following figure shows these three components.



Chunking

You will sometimes hear the phrase "chunking the curriculum." Chunking involves breaking up a degree program into "chunks" of classes. Completion of each chunk earns in a competency-based certificate recognized by employers.

FORM 3Use FORM 3 to weigh the relevant benefits of and barriers
to chunking.

Your partnership will begin by identifying industry sector(s) and corresponding occupations for implementation and curriculum development. The credentials associated with these occupations are at the "heart" of that curriculum because they determine the "exit points" where adult learners will enter the workforce.

FORM 4	Use FORM 4 to inventory the types of credentials associated with the occupations you are considering for implementation.
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Many times in a partnership there are many different training providers that provide the associated credentials within an occupation.

FORM 5Use FORM 5 to identify the types and titles of the credentials and which training providers issue them.	
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Bridge Programs

Most AE/ESL learners need a "prep stage" or bridge to transition to postsecondary education or training. Bridge programs ease the transition to postsecondary education by integrating basic skills instruction (or English language instruction) with occupational skills training, and they are suitable for adults who have reading and mathematics skills at or below the tenthgrade level. Well-crafted adult education and ESL bridge programs can reduce or even eliminate the need for developmental education because they are closely aligned with the requirements of postsecondary education. Bridge programs can be developed for students at all levels, although students at the lowest skill levels may need to take several types of bridge programs (including "pre-bridges") before they are ready for postsecondary education.

The essential features of a bridge program are:
Modular curriculum
Connects points on a career ladder
Industry certification articulates with academic degrees
Curriculum is contextualized
Learning assessments are project-based
Specific criteria to enter and exit
Articulates to other bridges and to postsecondary education
Academic support is incorporated into lesson plans
Offers career counseling
Offers non-academic support services as part of the regular schedule

Adapted from How to Build Bridge Program That Fits into a Career Pathways: A Step-by-Step Guide Based on the Carreras en Salud Program in Chicago

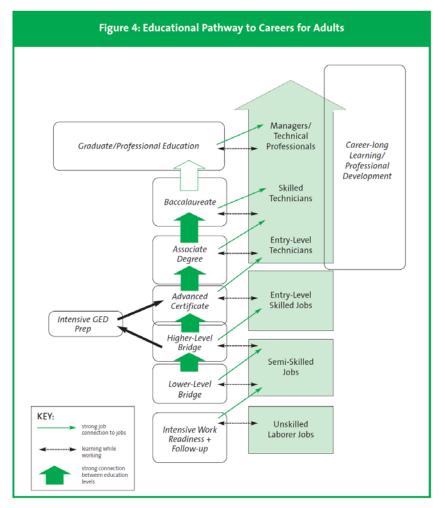
National Snapshot

Following is a national snapshot of the bridge programs represented in the 2010 BridgeConnect survey, a national survey designed to help determine the depth and breadth of bridge programs throughout the country.

- The survey showed that bridge program participants generally have low educational skills when they enter the programs. In fact, 57 percent of the adults served by survey respondents possess educational skills below the tenth-grade level, with 19 percent below the sixth-grade level.
- Bridge programs are structured to meet the needs of adult participants. They offer instruction at times and places that are convenient to working adults, offer a "learningby-doing" format, and allow students to work at their own pace.
- Most programs are cohort-based, allowing students to progress through their classes together. The average class size is between ten and 19 students; the average program length is 20 weeks.
- By definition, bridge programs have an industry focus. Seventy-five percent of the programs surveyed target allied health. Other occupations or industries served include

administrative/office technologies, the construction trades, energy, information technology, and manufacturing. (Workforce Strategy Center, *Building a Higher Skilled Workforce: Results and Implications from the BridgeConnect National Survey*, Nov 2010, <u>http://www.workforcestrategy.org/images/pdfs/publications/bridge_connect_report_20</u> <u>10-11.pdf</u>)

Bridge training can be built on existing educational programs that serve low-skilled adults, but these programs should be reconfigured to ensure a connection both to job advancement and to further education. Most bridge programs cannot be purchased "off the shelf" like training curricula or instructional software. Developing a bridge program is a process of adapting existing programs and services or adding new ones to enable the target population to advance to higher levels of education and employment. The particular form and content of a bridge program will depend on both the needs of the individuals to be served and the requirements of the education programs and jobs at the next level.



Source: *Bridges to Careers for Low-Skilled Adults: A Program Development Guide,* Women Employed with Chicago Jobs Council and UIC Great Cities Institute, 2005

Designing a Bridge Program Involves These Steps

Identify the target population and assess their learning and career goals and barriers to success.

Identify jobs and further education and training programs that would provide opportunities for advancement for the target population and map out the requirements of entry and success in those jobs and educational programs.

Conduct a gap analysis to determine how well existing programs or services prepare members of the target population to enter and succeed in the targeted job and education programs and highlight where individuals are "falling through the cracks."

Redesign existing program components and create new ones to address gaps and create "bridges" to better jobs and higher-level education and training.

Adapted from Bridges to Careers for Low-Skilled Adults

FORM 6

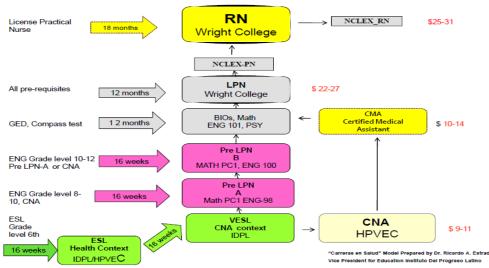
Use **FORM 6** to identify strategies and timelines for each of the bridge program design steps.

Flowchart Examples (with Bridges)

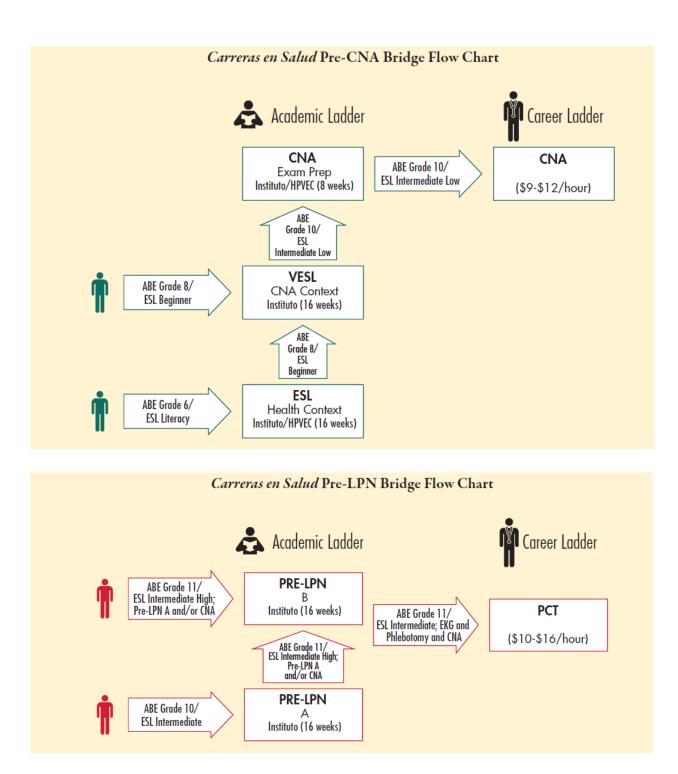
Flowchart examples with bridge programs for the adult learner are provided so that you can learn from promising practices from across the nation.

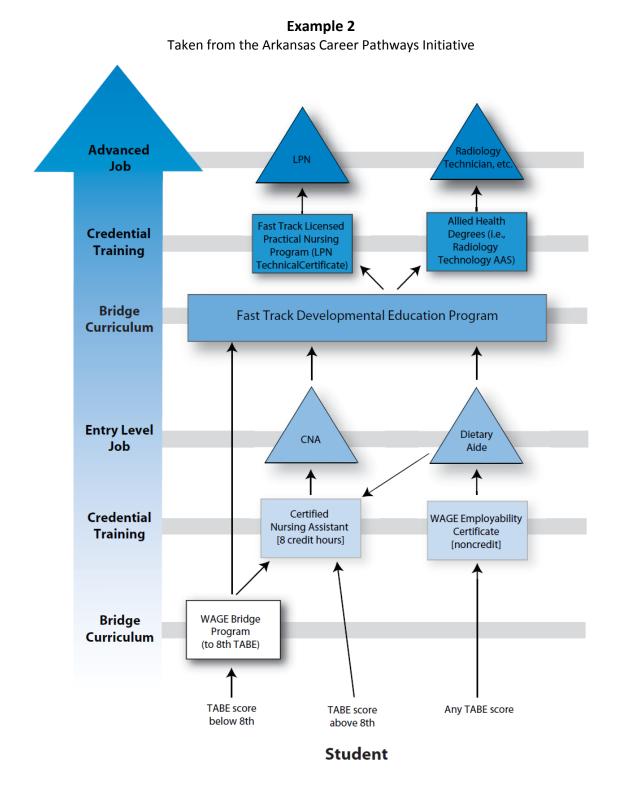
Examples 1A, 1B and 1C

Taken from *How to Build Bridge Programs That Fit into a Career Pathway: A Step-by-Step Guide Based on the Carreras en Salud Program in Chicago*



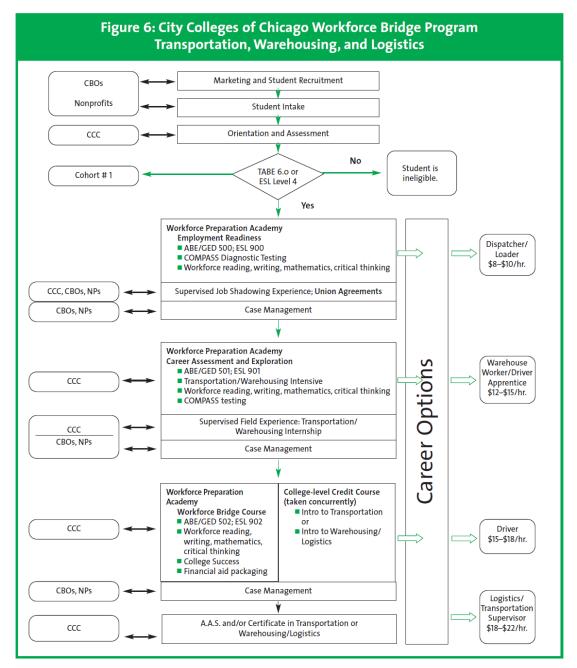
THE CARRERAS EN SALUD PATHWAY MODEL

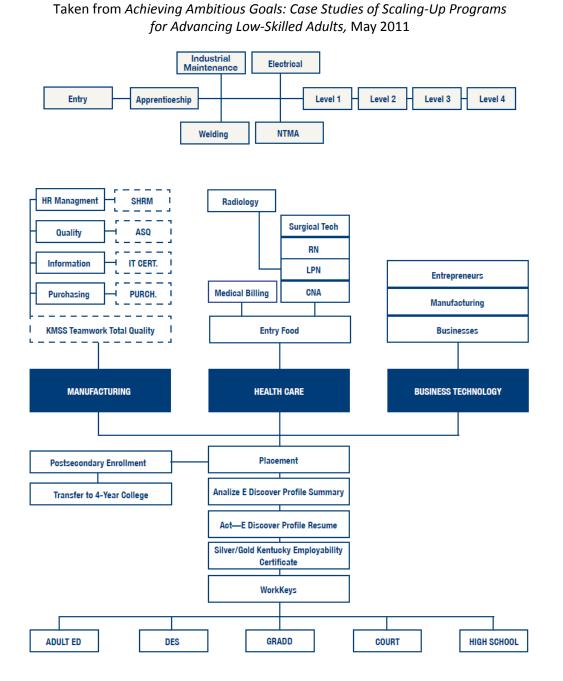




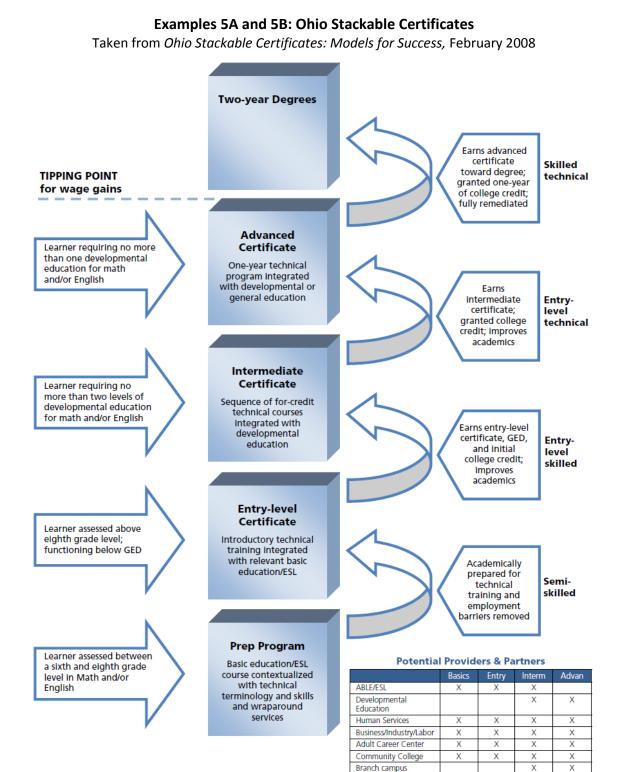
Example 3

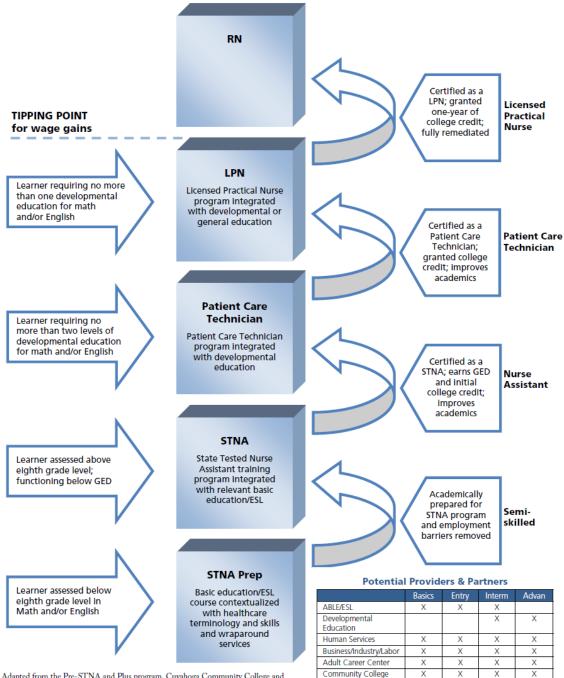
Taken from *Bridges to Careers for Low-skills Adults: A Program Development Guide,* Women Employed with Chicago Jobs Council and UIC Great Cities Institute





Example 4: Owensboro Community and Technical College



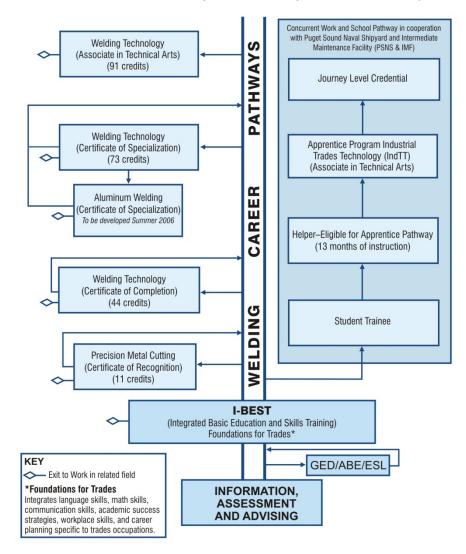


Adapted from the Pre-STNA and Plus program, Cuyahoga Community College and the Healthcare Career Pathways program, Pickaway-Ross Career & Technology Center

Branch campus

Example 6: Olympic Washington

Taken from Ohio Stackable Certificates: Models for Success, February 2008



College-level welding program is enhanced with basic skills instruction through:

Foundations for Trades

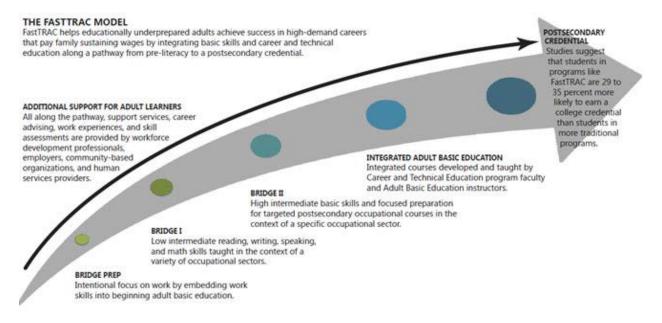
- 10 credits, counts only as elective
- 10 hours a week, 10 weeks
- Co-taught 50% of time (Adult basic education instructor teaches 100% of class; professionaltechnical instructor attends 50% of classes)
- · Work and college readiness, including study habits, job expectations, etc.
- · Removal of barriers to job and school, teaching students crisis management, helping find housing
- Introduction to basic welding concepts, including reading blueprints
- Lab observation of welding tools

Precision Metal Cutting Certificate of Recognition

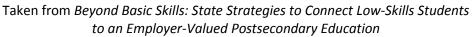
- 11 credits, counts toward degree
- Two courses: Blueprint Reading (classroom) and Welding (laboratory)
- Technical Curriculum taught by professional-technical instructor
- Adult basic instructor teaches college success strategies, including note-taking and study habits; reviews welding vocabulary; emphasizes on-the-job safety by reviewing how to read dials and gauges properly; blueprint reading; and available for academic tutoring before and/or after class

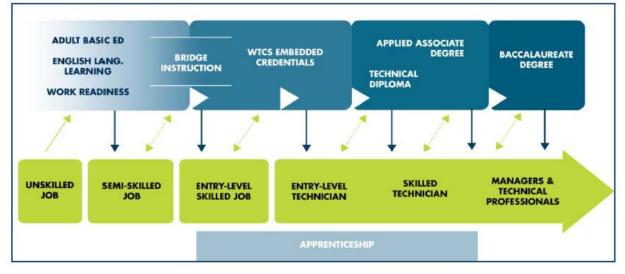
Example 7: Minnesota FastTrac

Taken from Strengthening the Skills of Our Current Workforce: Recommendations for Increasing Credential Attainment Among Adults in Minnesota, 2011



Example 8: Wisconsin Rise Model





Resources

- Adult Career Pathways News—An online collection of instructional resources from the Designing Instruction for Career Pathways project. The collection consists of a broad variety of teaching resources—ranging from course outlines to lesson plans and activities—appropriate for AE, ASE, and ELL programs. <u>http://www.acp-sc.org/</u>
- Illinois Online Bridge Directory—The directory presents information about current bridge instruction offered by Illinois' community colleges and adult education providers. Bridge programs listed in this online directory are based on Illinois' Bridge Definition. <u>http://occrl.illinois.edu/projects/shifting_gears/bridge_directory</u>
- Credential Resource Guide : The U.S. Department of Labor has developed the "Credential Resource Guide." <u>http://wdr.doleta.gov/directives/attach/TEGL15-10a2.pdf</u>
- Florida Ready to Work, an employee credentialing program that tests and scores job skills and work habits. <u>http://www.floridareadytowork.com/</u>
- For other toolkits in the Career Pathways arena, please check out <u>www.ncpn.info</u>

Forms

FORM 1: Adult Education: Moving Towards "New Basics"										
Has your AE moved toward the "New Basics"? Please rate each	D	isa	gree	•←-				\rightarrow	Agr	ee
component below:	1	2	3	4	5	6	7	8	9	10
Students and employers are the customers.										
The curriculum includes work-readiness skills, and preparation for postsecondary education is the primary goals										
The content focus includes literacy, numeracy, and English language skills as well as thinking and reasoning skills (problem solving, team work and following instructions).										
Basic skills are taught in a work context that stresses good work habits.										
Program goals are driven by the learner's employment goals, the skill requirements for a family-sustaining job, and the entry requirements of postsecondary education and training.										
Most students achieve a high level of basic and workforce readiness skills and are prepared to enter postsecondary education and training and family-sustaining jobs.										

	Possible Growth	List Possible	√ Secondary Program	√ Postsec Program	Candida Entry of and/or Learner	f AE ESL
	Low-Med-High	Occupations	Available	Available	AE	ESL
Agriculture, Food & Natural Resource	<u>!S</u>					
The production, processing, marketing, dis	stribution, fina	ncing, and deve	elopment of a	agricultural	commodi	ties and
resources including food, fiber, wood prod	lucts, natural r	esources, hortic	culture, and o	other plant a	and anim	al
products/resources.			1	1	1	
Food Products and Processing Systems						
Plant Systems						
Animal Systems						
Power, Structural & Technical Systems						
Natural Resources Systems						
Environmental Service Systems						
Agribusiness Systems						
Architecture & Construction						
Careers in designing, planning, managing,	building and r	naintaining the	e built enviro	nment.	_	
Design/Pre-Construction						
Construction						
Maintenance/Operations						
Arts, A/V Technology & Communicati	ions					
Designing, producing, exhibiting, performing	ing, writing, an	d publishing m	ultimedia co	ntent includ	ing visual	and
performing arts and design, journalism, ar	nd entertainme	ent services.	1	1	1	-
Audio and Video Technology and Film						
Printing Technology						
Visual Arts						
Performing Arts						
Journalism and Broadcasting						
Telecommunications						
Business Management & Administrat	<u>ion</u>					
Careers in planning, organizing, directing	and evaluating	ı business funct	ions essentia	al to efficient	t and prod	ductive
business operations.	-1	-	T	T	-	-
General Management						
Business Information Management						
Human Resources Management						
Operations Management	1					
Administrative Support						
Education & Training						
Planning, managing and providing educat	ion and trainin	g services, and	related learn	ning support	services.	
Administration and Admin. Support	1					
Professional Support Services	1					
Teaching/Training						
Planning, services for financial and investr	ment planning,	banking, insur	ance, and bu	isiness finan	cial	
Finance Planning, services for financial and investr management. Securities & Investments	ment planning,	banking, insur	ance, and bu	isiness finan	cial	

	Possible	List Possible	√ Secondary Program	√ Postsec Program	Candidate for Entry of AE and/or ESL Learner?		
	Growth Low-Med-High		Available	Available	AE	ESL	
Accounting	2000 med mgn						
Insurance							
Banking Services							
Government & Public Administration					1		
Planning and performing government fun	ctions at the lo	cal. state and f	ederal levels	. includina a	overnanc	ρ.	
national security, foreign service, planning		-		, meruumg g	overnane	c)	
Governance	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				1		
National Security							
Foreign Service							
Planning							
Revenue and Taxation							
Regulation	1		1		1		
Public Management and Administration	1				1		
Health Sciences				I		I	
Planning, managing, and providing therap	eutic services	diagnostic ser	vices health	informatics	sunnart	ervice	
and biotechnology research and developm		alagnostic seri	nees, neurin	injointutics,	Supports	er vices	
Therapeutic Services			T			<u> </u>	
Diagnostic Services							
Health Informatics							
Support Services							
Biotech Research and Development							
					1		
Hospitality & Tourism		autotion and a	n a varti a na af	ve et eu ve et e	and atha	. food	
Hospitality & Tourism encompasses the m				restaurants	ana otnei	5000	
services, lodging, attractions, recreation e	vents and trav	el related servi	ces.	1	1		
Restaurants and Food/Beverage Services							
Lodging Travel & Tourism							
Recreation, Amusements & Attractions							
Human Services			c				
Preparing individuals for employment in C	-		-				
counseling and mental health services, far	niiy ana comm	unity services,	personal car	e, ana consi T	imer servi	ces.	
Early Childhood Development & Services							
Counseling & Mental Health Services							
Family & Community Services	+					<u> </u>	
Personal Care Services							
Consumer Services							
Information Technology							
Building linkages in IT occupations for ent	-				-		
development, support and management of	of hardware, so	oftware, multim	nedia and sys	tems integr	ation serv	ices.	
Network Systems							
Information Support and Services							
Web and Digital Communications						ļ	
Programming and Software Development							
Law, Public Safety, Corrections & Sec							
Planning, managing, and providing legal,		protective servi	ces and hom	eland securi	ty, includi	ng	
professional and technical support service	s.						

	Growth List Possible Program Pr	ible Secondary Postse vth List Possible Program Progra	√ Postsec Program	Candida Entry of and/or Learner	f AE ESL ?	
	Low-Med-High	Occupations	Available	Available	AE	ESL
Correction Services						
Emergency and Fire Mgt Services						
Security & Protective Services						
Law Enforcement Services						
Legal Services						
Manufacturing Planning, managing and performing the p professional and technical support activitie manufacturing/process engineering.						elated
Production						
Mfg Production Process Development						
Maintenance, Installation & Repair						
Quality Assurance						
Logistics & Inventory Control						
Health, Safety and Environ. Assurance						
Marketing Planning, managing, and performing mark	eting activities	s to reach orga	nizational ob	jectives.		T
Marketing Management						
Professional Sales						
Merchandising						
Marketing Communications						
Marketing Research						
Science, Technology, Engineering & M Planning, managing, and providing scienti science, social science, engineering) includ services.	fic research an					
Engineering and Technology					+	
Science and Math						I
Transportation, Distribution & Logisti Planning, management, and movement of related professional and technical support management, logistics services, mobile eq	^e people, mater services such o	as transportati	on infrastruc			iter and
Transportation Operations						
Logistics Planning and Mgt Services						
Warehousing and Distribution Ctr. Op.						
Facility and Mobile Equipment Maint.						
Transportation Systems/Infrastructure						
fiansportation systems/initastructure			1		1	
Planning, Management and Regulation						

FORM 3: "Chunking" Discussion Form							
Benefits of Chunking	Barriers to Chunking						

FORM 4: Credential Checklist										
List Occupations for	Check all that apply for any credentials associated with occupation:									
which the partnership is considering a CP implementation:	Industry Recognized	Stackable	Portable	Certificate	AAS Degree	Apprenticeship	License	Other		

FORM 5: Credential and Training Provider Crosswalk Occupation: Type of Credential a Title of Credential **Training Provider** List the type of credential (e.g. Certificate, Degree, List all training providers that provide this certificate. Certification, License, or Apprenticeship) **Occupation:** Type of Credential & Title of Credential **Training Provider** List the type of credential (e.g. Certificate, Degree, List all training providers that provide this certificate. Certification, License, or Apprenticeship) **Occupation:** Type of Credential & Title of Credential **Training Provider** List the type of credential (e.g. Certificate, Degree, List all training providers that provide this certificate. Certification, License, or Apprenticeship)

FORM 6: Bridge Program Design Steps: Strategies and Timelines									
Identify target population to be served and assess their learning and career goals and barriers to success.									
Strategies or Activities		Timeline	Person/Group Assigned	Notes					
Identify jobs and further education and training programs that would provide opportunities for advancement for the target population and map out the requirements of entry and success in those jobs and educational programs.									
Strategies or Activities		Timeline	Person/Group Assigned	Notes					
Conduct a gap analysis to determine how well existing programs or services prepare members of the target population to enter and succeed in the targeted job and education programs and highlight where individuals are "falling through the cracks."									
Strategies or Activities		Timeline	Person/Group Assigned	Notes					
Redesign existing program cor			reate new or	ies to address gaps a	nd create "bridges" to				
better jobs and higher-level educatio		ning.		Person/Group					
Strategies or Activities			Timeline	Assigned	Notes				
Create a program flowchart to	review t	he elements		determine remaining gaps.					
Strategies or Activities			Timeline	Person/Group Assigned	Notes				
				I	L				
Is the bridge curriculum in	Yes	No	Notes						
modules?									
Does the bridge connect	Yes	No	Which?						
points on a career ladder?									

Form 6 (cont)

Industry certification articulates with academic degrees

Curriculum is contextualized

Learning assessments are project-based

Specific criteria to enter and exit

Articulates to other bridges and to post-secondary education

Academic support is incorporated into lesson plans

Offers career counseling

Offers non-academic support services as part of the regular schedule