### ABE/Workforce Development Action Plan Report Contract #2017-31

Prepared: June 29, 2017

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National College Transition Network

World Education, Inc.



### Overview

The City of Chelsea contracted with the National College Transition Network at World Education, Inc. (WEI), to study and report on local/regional adult education services and gaps in those services relative to local labor market needs, in order to provide recommendations for an action plan. Chelsea CONNECT, the intermediary managing the project, directed WEI to address the action plan recommendations to Chelsea CONNECT and the ABE/Workforce Development Advisory Group. This report provides a summary of the pathway research, makes recommendations for action, and compiles the primary supporting documents shared throughout the project.

The project commenced in September 2016 (although a pre-launch meeting with the Advisory Group was held in August) and ends with the submission of this report. Early into the project it became clear that the Advisory Group needed additional time to establish criteria, and to more fully consider additional labor market information. To accommodate this need, the original number of planned meetings increased from three to five.

### **Key Actions September 2016 – January 2017**

- Developed a collaborative working group.
- Established a common understanding of career pathways through WEI's sharing of research on career pathway models.
- Analyzed information that the WEI team collected from Advisory Group members and home organizations to inform the selection of career pathway selection, target wage, and criteria for pathway selection.
- Selected three pathways for further investigation: Advanced Manufacturing, Construction and Property Management, and Healthcare.
- Agreed that the entry point of the chosen pathways is the first point on a career pathway and that the target wage for the first exit point would be \$17/hour -\$35,000 annual wage).

For more details about these actions, see the Interim Report located in the Supporting Documents section of this report.

### **Key Actions: February –June 2017**

- Researched the three career pathways identified by the Advisory Group for priority.
- Presented information and analysis to the group.
- Analyzed information and identified recommendations for action.
- Conducted action planning session based on WEI's recommendations for action.



### **Recommendations for Action**

World Education convened a meeting of the Advisory Group on June 1, 2017 to present initial recommendations for action and solicit feedback in an effort to make the Chelsea ABE/Workforce Development Action Plan realistic and achievable. An action plan template populated by WEI with the recommendations and the priority action steps for each recommendation guided the discussion. This framework may be found, with the additional information added at the June 1 meeting, in the Supporting Documents section of this report.

These recommendations are related to overall network development and building linkages to existing services in order to create the foundation necessary for developing an effective career pathway system.

### **RECOMMENDATION #1**

### Build network capacity and strengthen the foundation that is essential to build an effective career pathways system.

Rationale: ABE/Workforce Advisory members expressed interest in seeing the group continue beyond this project. A strong foundation and commitment to a shared mission is required to build and sustain an effective career pathway system.

### **RECOMMENDATION #2**

### Build stronger linkages to stakeholders (e.g. REB, training providers, employers, NAMC), to increase accessibility and opportunity for Chelsea residents.

Rationale: There are underutilized training resources in the region that could be accessible to Chelsea residents with improved linkages. Steps to leverage local/regional expertise and resources should be taken before any attempts to duplicate or develop similar local training.

### **RECOMMENDATION #3**

### **Build individual program capacity**

Rationale: Individual organizations and programs need to use the expertise tapped by the network to inform their curriculum and program design so that they are better equipped to help participants explore, prepare for, and access the opportunities, options, and career pathways.

Continuing to use the action plan template as a guide, it is now the work of the Advisory Group to flesh out the details and outline the activities, identify the leads, target dates, resources, opportunities, and constraints as they emerge, through an iterative process. Although the grant was managed by Chelsea CONNECT, the intermediary for the project, WEI recognizes that the grant for this project came from the City of Chelsea. Going forward, we hope that the City of Chelsea will support the Advisory Group members in implementing the plan.



### Summary of the Pathways Research: Advanced Manufacturing, Construction and Maintenance, and Healthcare

World Education researched the three selected careers to identify the opportunities, challenges, and gaps in services for Chelsea residents, and to suggest how the Advisory Group might address them. WEI shared an initial summary of their research with the Advisory Group on March 27, 2017. WEI facilitated a meeting on June 1, 2017 to present initial recommendations and solicit the group's input into the action steps. WEI integrated the group's feedback into this final version of the pathway research and used it to shape the action plan recommendations.

WEI gleaned labor market data from the MA Executive Office of Labor and Workforce Development, the U.S. Department of Labor's Bureau of Labor Statistics, Massachusetts Career Information Systems (MA CIS), and Occupational Employment and Wages Estimates Massachusetts, 2014. The skill analysis was conducted using occupational profiles found in O'NET; The Occupational Outlook Handbook; a variety of industry reports; interviews with key training providers in Boston, across Massachusetts, and in other parts of the country; scans of online job postings in the region; and reviews of the websites of large regionally-based companies in a given industry sector.

Interviews with staff from the Metro North Regional Employment Board and other industry experts fleshed out details about the labor market, pathway training opportunities, and skill analysis that the labor market data did not capture. The section on training and education opportunities builds on the ABE and workforce training services inventory WEI developed for Bunker Hill Community College under a separate scope of work. Also, the WEI team leveraged their direct experience, and statewide and national networks to identify models and best practices for these pathways.

### **Advanced Manufacturing Pathway**

### **Opportunities**

- There are entry- and mid-level positions that don't require more formal education than high school diploma.
- There are opportunities for advancement once within the industry.
- Labor market indicators—including job descriptions—show that there is still growth in the region.
- Northeast Advanced Manufacturing Consortium (NAMC) is an established consortium of training providers (including Bunker Hill CC), WIBs (including Metro North), career centers (including Career Source), and businesses working together on the talent pipeline, training opportunities, etc.
- NAMC has developed deep industry knowledge and broad regional employer partnerships.
- Advanced manufacturing is aligned with Metro North REB's priorities.



### **Challenges and Gaps**

- The level of reading, writing, and math skills required for the training (8-10 GLE) may still be out of reach for many without remediation (or integrated training and education approach).
- Employers require high school diploma or equivalent, so training providers must, too. Even if employers use HSE as a proxy for a skill level that can be attained without HSE, they haven't moved off of this requirement.
- NAMC has not developed a model for recruiting and bridging from ABE and the few bridging attempts in the North Shore haven't been successful for a variety of reasons.
- NAMC's rotating training model has strengths (gives time to build bridge) and challenges (have to wait for turn when it comes around locally).
- Lessons from programs that offered some bridges to manufacturing: tough sell, still a big reach, need more time for career exploration and engagement in a contextualized atmosphere.
- Lessons from Jane Adams Resource Corporation (JARC) is that the bridge program needs to be
  in a workplace simulated environment (machine shop) to give people a realistic sense of the
  work and generate excitement and interest in the hands-on work. Students don't gain
  enough exposure through contextualized ESOL and site visits. The latter describes the model
  North Shore CAP and other ABE career pathways programs tried with very limited success.
- In addition to building skills and bridges to manufacturing, additional career awareness
  campaigns are required to generate interest in manufacturing jobs. Consortiums like NAMC
  and a similar one in Hampden County, Precision Manufacturing Regional Alliance Partnership,
  focus their educational and outreach campaigns on high school students, with minimal
  attention to adult learners. <a href="http://www.rebhc.org/wp-content/uploads/2012/01/AMP-it-Up-FINAL-Report-March-21-2016.pdf">http://www.rebhc.org/wp-content/uploads/2012/01/AMP-it-Up-FINAL-Report-March-21-2016.pdf</a>

### Questions

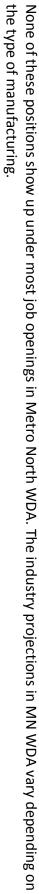
- Where does food production and manufacturing in Chelsea fit into the landscape?
- The food manufacturing companies in Chelsea, like Kayem, don't come up in the scan of manufacturing positions that we've explored and there is no information about job openings and hiring on the websites (more in machining).
- What do we know about students working in these companies? Is there a pathway that can be developed from these jobs to higher paying jobs in advanced manufacturing?



# LABOR MARKET INFORMATION

Massachusetts (2014 – 2024)Median Hourly Wages*Team Assembler SOC:51-4031.00\$14.00 MA \$14.00 MNComputer Numerical Control (CNC) Operator\$20.80 MASOC: 51-4011.00\$23.40 MNElectronic Equipment Assembler\$17.45 MA \$16.60 MNSOC: 51-2022.00 Manufacturing Production Technician\$33.33 MA \$31.34 MN		Growth # openings/	Growth %	Postings using 02150 (25 miles)	Description
rical perator ment		openings/	%	(25 miles)	
rical					
rical perator ment		year			
rical perator ment		360	-1%	80-100	Work as part of a team having responsibility
perator ment ment		(2120 in MN		manufacturing jobs,	for assembling an entire product or
perator ment mician	•	currently)		but difficult to	component of a product.
ment		70	-5%	accurately count for	Operate computer-controlled machines or
ment		(190 in MN		each position	robots to perform one or more machine
ment		currently)		because regardless of	functions on metal or plastic work pieces.
pment )0 hnician				which SOC used as	
)0 :hnician		70	-6%	filter, all come up in	Assemble or modify electrical or electronic
)O hnician		(1,060 in MN		search.	equipment, such as computers, test
:hnician		currently)			equipment, telemetering systems, electric
hnician				T	motors, and batteries.
		20	-2%		Set up, test, and adjust manufacturing
		(160 in MN			machinery or equipment, using any
		currently)			combination of electrical, electronic,
SOC: 17-3029.09					mechanical, hydraulic, pneumatic, or
				T	computer technologies.
CNC Machine \$24.54 MA		20	-3%		Develop programs to control machining or
Programmer \$29.37 MN	7 MN				processing of metal or plastic parts by
					automatic machine tools, equipment, or
SOC = 51-4012.00					systems.

<sup>\*</sup>Median wages are usually a good proxy for wages of workers in the position for a few years.





## REQUIREMENTS

Occupation	<b>Education and Training</b>	Certifications	Relevant Industry Associations
Team Assembler	Usually requires a HSE (JZ 2).	Most of the job descriptions don't	<ul> <li>Northeast Advanced</li> </ul>
		indicate more than HSE, and ability to	Manufacturing Consortium
		read and write English.	(NAMC)
Computer Numerical	May require vocational	Most of the job descriptions don't	<ul> <li>Mass Manufacturing Extension</li> </ul>
Control (CNC)	training, on-the-job	indicate more than HSE, but do look for	Partnership (Mass MEP)
Operator	experience, or an associate's	years of experience and ability to read	
	degree (JZ 3).	and write English.	<ul> <li>National Institute for</li> </ul>
			Metalworking Skills (NIMS) offers a
		CNC Milling 1 certification may offer an	host of sequential credentials.
		advantage to those without experience.	IPC - Association Connecting
Electronic Equipment	Usually requires a HSE (JZ 2).	Most of the job descriptions don't	Electronics Industries
		years of experience and ability to read	<ul> <li>Manufacturing Skills Standards</li> </ul>
		and write English.	Council (MSSC)
		Some preference for IPC soldering	American Society for Quality (ASQ-
		certifications.	certilled Quality Hispector)
Manufacturing	May require vocational	Certified Production Technician is a	
Production Technician	training, on-the-job	related credential, but rarely required in ich nostings	
	degree (JZ 3).	,	
	Computer skills. Depending		
	screening.		



	degree (JZ 3).	
	experience, or an associate's	
but rarely included in the job postings.	training, on-the-job	Programmer
Series of NIMS certificates are related,	May require vocational	CNC Machine

Production Technicians also specify computer literacy, math skills, proficiency with types of manufacturing software (e.g., SAP), and Skills: All of the positions posted specified the importance of reading and communicating in English. The CNC and Manufacturing familiarity with various manufacturing standards and practices (e.g., Lean, Good, etc.).

These positions are all on the production side of manufacturing because that's the pathway the REB has outlined. Another side of the

control positions were not included in the original MN REB schema, but will be a focus of the new TechHire Grant.

pathway not included here is the transportation, logistics, and distribution, which also features entry-level positions. Additionally, quality



### **TRAINING PROGRAMS**

Northeast Advanced Manufacturing Consortium (NAMC) <a href="http://www.namcnetwork.com/">http://www.namcnetwork.com/</a> Robin Dion, Metro North REB is the Consortium Manager, <a href="mailto:rdion@mnreb.org">rdion@mnreb.org</a>

NAMC is a collaboration among manufacturing companies, WDBs, career centers, community colleges, and vocational/technical high schools created in 2012 to define and implement the Commonwealth's advanced manufacturing strategy within the Northeast MA.

- NAMC runs 19-week training programs sponsored by various community colleges and vocational/tech schools in the region.
- The first five weeks are held at the participating college, the second 14 weeks are held at the participating vocational technical HS.
- The course prepares graduates for entry level employment at precision machining or electronic assembly companies in the region.
- Eligible applicants must score at least an 8<sup>th</sup> Grade Level Equivalent (GLE) in reading and math, but those closer to 10<sup>th</sup> GLE are more successful.
- English proficiency is necessary for training and employment (they haven't piloted any sort of contextualized English support directly though the consortium).
- To date 160 individuals have been trained under the consortium.
- Over 80% of individuals have been placed in employment.
- Piloting new Quality Technician Training (6 weeks, 120 hours) in June, 2017.
- Over 80 companies have hired graduates.
- 200 total companies are participating in some way.

NAMC has expanded the number of training partners to now include Bunker Hill Community College, Somerville and Medford Vocational High Schools who launched a training cycle in January 2017. BHCC teaches the foundational skills component and vocational component at Somerville High School.

NAMC employer partners tend to be concentrated north of Chelsea, but the consortium is working on identifying and engaging companies that are in the Chelsea and Bunker Hill area and more accessible by public transportation.

Career Source piloted the use of Career Ready 101 to remediate math skills for applicants who fell below the required math level. All but two of the recruits met the baseline skills requirements. Trainees will be done in June and Metro North REB is working on identifying employers accessible by public transportation.

**The New TechHire Grant** will focus on youth and young adults, ages 17 to 29 with barriers to employment, as well as veterans and individuals with disabilities, limited English proficiency, criminal records, and long-term unemployment. BHCC will be a training provider for future cohorts, offering



the 6-week, 120-hour program ending in a Certified Quality Inspector credential. Free to those who qualify. Schedule to be determined.

### **LARE Training Institute**

http://www.americantraininginc.com/groups/lare-institute/

The Andover campus offers training and certificates in electronic assembly and soldering inspection.

### **Northeast Metropolitan Regional Vocational High School**

http://www.neadulted.com/courses/trade-preparation

Based in Wakefield, the Community Education Department offers tuition based-courses on welding and welding certification test preparation. They offer classes in the evening.

### North Shore Community College, Lynn Campus

https://www.northshore.edu/academics/guided-pathways/pdf/mnc.pdf

The 25-credit certificate in Advanced Manufacturing targets students with prior work or learning experiences through hands-on applications at a vocational/technical high school or related employment in a manufacturing/machining environment.

### Center for Manufacturing Technology, Woburn

http://www.customtrainingcenter.com/about.html

The Center for Manufacturing Technology (CMT) is a full service training facility specializing in machine shop training. Students gain hands-on experience using milling, lathe, and grinding machines. A variety of certification courses are offered, such as Certified Machine Technician and NIMS certificates. Classes begin weekly offering diverse scheduling options.

CMT provides training for Middlesex Community College Manufacturing Technology Program https://www.middlesex.mass.edu/careertraining/manufacturing.aspx

Prerequisites for Middlesex Program: A study of signed numbers and the order of operations, powers, laws of exponents, roots, linear equations, point plotting, graph of straight lines, and a brief introduction to plane geometry.

For example, General Machine Shop Practices (#C009) was funded through a state Manufacturing Training Grant in 2016. This is a comprehensive course consisting of 101 Classes taught in two hour interactive lessons. The classes are designed to introduce students to Precision Machining. The program covers: Math Fundamentals, Basics of Tolerance, Blueprint Reading, Shop Algebra, Structure of Metals, Fixture Design Basics, Mechanics of CNC, CNC Specs for Mill and Lathe, and Creating a Milling Program. The student will also gain hands-on experience, creating hand tools or locating devices, through participation in five school projects or practical "labs". Enrollment cycles are 40 weeks in length (5 days-per-week, 6 hours-per-day).

Prerequisites: Students must be at least eighteen years of age; have a High School Diploma, GED, or equivalent; and have some understanding of Math and basic Algebra. Students should possess a



strong mechanical aptitude, have good problem-solving abilities, and be able to work independently. Experience working with machinery is helpful.

Objectives: A CMT Certificate and up to four NIMS credentials are awarded upon successful completion.

### LESSONS FROM BRIDGE TO MANUFACTURING PROGRAMS IN OTHER REGIONS

### North Shore Community Action Program (NSCAP)

NSCAP partnered with North Shore WIB and Career Center on an Adult Career Pathways grant to build a pathway to manufacturing using an ESOL curriculum contextualized to exploring manufacturing careers. They adapted some of the Transformation Agenda modules on manufacturing. They also visited local companies such as Analogic and Millipore, but students didn't see workers like themselves there (Spanish and Portuguese speaking women).

Ultimately, students were not interested in manufacturing work. It's hard to break down the image of it as monotonous and dead-end at the entry level. The demands of shift work are also unattractive, especially for women. Most of the recruitment is through temp agencies (and temp-to-hire).

The curriculum added value, nonetheless, because the lessons on LEAN manufacturing, problem solving and continuous improvement were interesting and transferable to other occupations of interest.

More career awareness and outreach, aligned with and supported by the NAMC member companies as well as role models and champions from students' communities is needed to make the pathway attractive and viable.

### **Center for New Americans/CNA (Northampton)**

CNA put together a bridge class to help English Language Learners prepare for GCC's grant-funded Foundational Manufacturing Course, which was a free four week evening program which meets 20 hours-per-week, to prepare students for entry level manufacturing positions or to enter GCC's Advanced Manufacturing Pipeline (AMP) CNC certificate program. Even the four week course was a bit of a reach for the CNA students, so GCC broke up the four week course into modules that were more spread out in topics such as OSHA, math for manufacturing, blueprints, and metrology. They also had Tooling U (online curriculum) accounts through GCC.

Most of the CNA students did not make it past OSHA or math modules. They were placed in jobs, primarily in warehouse (shipping and receiving) positions, but it's not clear that they couldn't have qualified for these entry level positions without the four week training. The AMP CNC training was out of the reach of most of the students, given the academic skill requirements to enter.

The requirements were SPL 5-6 (intermediate advanced English) and some interest in manufacturing. They didn't screen for math skills. If CNA were to run the bridge program again, they would make the screening and intake more rigorous. The Foundation instructors also recommend that the



manufacturing program be more hands-on, perhaps alternating weeks in the classroom and shop to help students engage and connect the academics to the work.

### **Employer and Industry Information**

In the Northeast region, fabricated metal products and machinery comprise 41% of the companies, and computer and electronic product manufacturing is the second largest cluster (23%) of companies. Overall, food processing and production comprises just 9% of the region's manufacturing. However, many of the Chelsea residents working in manufacturing are working in the lower-skilled, lower-paid food processing, for example State Gardens, Kayem, and Signature Breads. Information about job openings, hiring requirements, or opportunities for training and advancement were not available on these companies' websites.

### **Scan of Job Postings**

Many of the manufacturing companies use staffing agencies, such as National Engineering Service Corp (NESC) and Randstad). A search of entry level positions, such as Assembler and CNC Operator, within a 25 mile radius of Chelsea yielded openings in Bedford, Danvers, Andover, Peabody, Merrimack Valley, and among NAMC member companies, but none in Chelsea.

### Metro North REB held a NAMC event in 2016 with Middlesex and these companies:

- ABIOMED
- Boston Centerless
- Essco Calibration Laboratory
- General Electric
- Laser Services
- Microline Surgical
- Sekisui Voltek
- Paradigm Precision
- Smyth Companies
- LLC Dow Division
- Xperttech
- WestRock

### SkillUp Washington's Manufacturing Employer Survey

https://skillupwa.org/resources/manufacturing-employer-survey/

Though respondents are manufacturing businesses in WA, there is information about employer challenges, hiring needs, and recommendations for preparing students for entry into the field, and for retention and advancement once hired.

### **Construction and Maintenance Pathway**

### **Opportunities**

- Labor market still seems good for construction trades and maintenance.
- Many settings with maintenance needs Hospitals, hotels, universities, housing complexes are the many settings where property maintenance technicians are needed.
- Aligned with MN REB priorities.
- There are high quality programs in Boston that are recruiting participants for building maintenance (BEEMS) and pre-apprenticeship trades (Building Pathways) programs that are accessible by public transportation. These programs are eager to reach out to Chelsea residents for information sessions and recruitment. Building Pathways has union penetration and industry expertise that would be hard to duplicate (and why duplicate it when it's accessible?).
- May be able to enter both construction and maintenance side with limited training, but advancement requires additional training and English skills.
- Maintenance may provide pathway that's easier to access and easier physically without competing with/for unions and apprenticeship slots.
- Associated Builders and Contractors (ABC) may have an increasing commitment to diversity under Morisset St. Preux's leadership.
- Hospitals, hotels, universities, housing complexes are the many settings where property maintenance technicians are needed.
- Metro North REB (Chris Abrizio Lee) is interested in developing pathways to property
  maintenance jobs and companies and researching Certified Occupation Specialists as an
  accessible occupation.
- Search of facilities maintenance positions yielded a few that required additional certifications beyond some knowledge of basic repairs (in multiple trades). However, they do require HSE and a drivers' license.

### **Challenges and Gaps**

- Union and apprenticeship training is hard to navigate and access. Each has their own application schedule and takes applications only periodically.
- Industry expertise really key at all levels of program design and implementation. Can generalists be effective?
- Maintenance pathway and requirements are not fully developed and will require more research and interviews with local companies to map.
- Still requires HSE, reading, writing, English, and some computer literacy (for maintenance and management, especially).
- The unionized commercial construction industry in Boston lacks the capacity to advance individuals who do not have strong English skills. Pre-apprenticeships and apprenticeships might consider incorporating contextualized English language learning into the career pathway. Associated Builders and Contractors (ABC) is considering an English support class for pre-apprentice candidates.



- Most of Building Pathways students are Boston residents because the unions are recruiting from Boston for residency requirements. BP can take non-Boston residents, but they have to place them in other jobs. The requirement is 50% residents. The state and federal jobs have different requirements.
- Limited bridge training programs for adults that include support services.
- Apprenticeships are not appropriate for someone who needs a job right away, because the training is full time and there is a lag between the pre-apprenticeship and the apprenticeship, though they will help with stop-gap job placement.

### Questions

- What lessons can be learned from the Chelsea Connect pilot? How can you build on the contacts made with training and industry and implement with sufficient planning, partner development, coordination, and industry input?
- How to partner with the Pre-Apprenticeship programs (union-based and non-union based) to develop pathways and opportunities for low skilled residents?
- How does the group feel about pursuing non-union training and companies?



# **LABOR MARKET INFORMATION**

making it a board. Additional labor market information on this sector will be compiled by the REB early in FY18. Metro North REB has identified Construction/Property Management in the 3-year strategic plan as a primary industry sector to research,

Massachusetts	Median	Growth #	Growth	Postings using	Description
(2014 – 2024)	Hourly	openings/	%	02150	
	Wages*	year		(25 miles)	
Construction Helpers	\$19.00	54	7%		Construction helpers are entry-level workers. They
(MA CIS )					have skilled trades with a variety of basic tasks. They
					also use the materials and tools of the trade.
Construction Laborers	\$23.67	510 (MA)	+2%	32 – US Jobs	Perform tasks involving physical labor at
				19 – Career	construction sites. May operate hand and power
SOC: 47-2061.00		53 (MNWDA)		Building	tools of all types. May assist other craft workers.
Construction	26.84	380	+5%	14	Construct, erect, install, and repair structures and
Carpenters					fixtures of wood, plywood, and wallboard, using
					carpenter's hand tools and power tools.
SOC: 47-2031.01					
Maintenance and	\$20.62	680	+4%	280 – US Jobs	Perform work involving the skills of two or more
Repair (General)				580 – Job Bldrs	maintenance or craft occupations to keep machines,
		81 (MNWDA)		(few near	equipment, or structures in repair.
SOC: 49-9071.00				Chelsea)	
Painters, Construction,	\$20.54	120	+3%	5	Paint walls, equipment, buildings, bridges, and other
Maintenance					structural surfaces.
SOC: 47-2141.00					
Building Maintenance	\$20.62	760/120	+5%/	Job postings	Primary job is to maintain the safety and comfort of
(MA CIS )		MA/Boston	+6%	more in the	the occupants of the building. Work on all the
				\$15/hour start	mechanical systems of the buildings. This includes
			MA/	range	HVAC, plumbing and electrical jobs (only jobs where
			Boston		licensing isn't required).



Massachusetts	Median	Growth #	Growth	Postings using	Description
(2014 – 2024)	Hourly	openings/	%	02150	
	Wages*	year		(25 miles)	
Property, Real Estate,	\$35.91	140/47	+1%/	25 – US Jobs	Coordinate the selling, buying, leasing of real estate
Associations Manager			6.5%	27 – America's	properties. Includes managers of owned, rented, or
		MA/Boston		Job Xchange	leased housing units/buildings.
SOC: 11-9141.00			MA/		
			Boston		
Certified Occupancy	N/A				From Posting for Recertification Specialist:
Specialist					Responsible for handling all certifications and all
					necessary paperwork to comply with regulatory
					agencies. Maintain accurate reports.
					Also see Property Manager/Assistant Property
					Manager.

wages are \$20.62/hour, but job listings posted wages closer to \$15.00/hour. \*Median wages are usually a good proxy for wages of workers in the position for a few years. For example, Building Maintenance median

electricians, and welders. Specific areas of opportunity for construction (and maintenance) will be: Senior housing and healthcare Medical treatment facilities; Infrastructure maintenance and repairs (e.g., highway, bridge, and street construction); Power line and residences; renovation and expansion of older homes; Repair and remodel of existing homes; Replacement of many industrial plants; From Building Futures: Crafts expected to be in highest demand are carpenters, masons, pipefitters, heavy equipment operators, related construction. Many tradespeople are up for retirement, causing additional replacement openings.



## REQUIREMENTS

Massachusetts	<b>Education and Training</b>	Certifications	Relevant	Relevant Industry Associations
<b>Construction Laborers</b>	Usually requires a HS Diploma	Many certifications on the market.	<ul> <li>Natio</li> </ul>	National Center for Construction
	and some preparation.	Requirements vary by employer,	Educa	Education and Research (NCCER)
	(Job Zone 2).	typically:	• New	New England Carpenters Fund
		<ul> <li>OSHA 10 or 30</li> </ul>	Bostc	Boston Building Trades
		<ul> <li>Valid Driver License</li> </ul>	<ul> <li>Natio</li> </ul>	National Association of Home
Construction	Usually requires a HS Diploma	Variety of certifications on the market.	Builders	ers
Carpenters	and some preparation.	Requirements vary by employer,	Assoc	Association of Builders and
	(Job Zone 2).	typically:	Contr	Contractors
		<ul> <li>OSHA 10 or 30</li> </ul>		
		<ul> <li>Valid Driver License</li> </ul>		
Maintenance and	Usually requires training in	Some certifications on the market (Nat'l	<ul> <li>Natio</li> </ul>	National Apartment Association
Repair (General)	vocational schools, related	Apt Association, Nat'l Hotel and	<ul><li>Natio</li></ul>	National Hotel and Lodging
	on-the-job experience, or an associate's degree.	Lodging).		
	(Job Zone 3).	Requirements vary by employer,		
		typically, postings list general		
		understanding and experience with one		
		or more – HVAC, electrical, plumbing –		
		preferred, but certification not		
		required.		
		<ul> <li>OSHA 10 or 30</li> </ul>		
		<ul> <li>Valid Driver License</li> </ul>		
Painters, Construction,	Usually requires a HS Diploma	Some certifications on the market.	<ul> <li>Natio</li> </ul>	National Apartment Association
Maintenance	and some preparation.	Requirements vary by employer,	<ul> <li>Natio</li> </ul>	National Hotel and Lodging
	(Job Zone 2).	typically, postings list general		
		understanding and experience with one		
		or more – HVAC, electrical, plumbing –		
		preferred, but certification not needed.		



Massachus ++	Education and Training	Costifications	Bolowast Industry Associations
	C	Job postings are interchangeable with	
		maintenance and repair.	
<b>Building Maintenance</b>	HS or equivalent, on-the-job	Most job posting don't indicate that	Facilities Management Association
(MA CIS )	training, skills in trades such	certifications are required. HVAC and	<ul> <li>National Apartment Association</li> </ul>
	as plumbing and	electrical maintenance listed as below	,
	construction.	those where trade licensing required.	
Property, Real Estate,	Bachelor's degree and	NCHM and others offer certification,	<ul> <li>National Center for Housing</li> </ul>
Associations Manager	experience.	but not always required.	Management
			<ul> <li>American Apartment Association</li> </ul>
	Maintenance workers may	Some postings list Certified Apartment	
	also advance as managers.	Manager (CAM) or Accredited Resident	
Certified Occupancy	A scan of job postings finds	Certified Occupancy Specialist granted	
Specialist (or	this function embedded in	by the National Center for Housing	
Recertification	Property Manager and	Management.	
Specialist)	Assistant Property Manager		
	positions requiring 2-4 year		
	degrees plus certification.		
	A posting specifically for		
	Recertification Specialist		
	required Just a Hist.		
	Knowledge of affordable		
	housing programs such as		
	Low Income Housing Tax		
	heneficial		



### EDUCATION AND TRAINING AVAILABLE LOCALLY (INCLUDING ABE, SKILLS TRAINING, BRIDGE TRAINING)

### **Building Energy Efficient Building Maintenance (BEEMS)**

Asian American Civic Association, Chinatown (Training at Madison Park Voc. Tech HS, Roxbury) <a href="http://aaca-boston.org/programs-services/job-training/technician/">http://aaca-boston.org/programs-services/job-training/technician/</a>

The BEEMS Program is a 22-week long program that trains participants for a career as a maintenance worker/engineer. It teaches the fundamentals of carpentry, plumbing, painting, electricity, appliance repair, and cleaning plus English, math (area, perimeter, fractions), and basic computers. Graduates earn OSHA 10 certification.

This course includes a new "green" curriculum on energy efficiency and weatherization. The course includes a five-week internship with major hotels and property management companies. Program may be free for low-income or dislocated workers who qualify for WIOA funding.

- Must pass basic English, math, and writing tests (SPL 5 and 5<sup>th</sup> GLE, reading, writing, computation)
- GED / High School diploma
- Valid U.S. driver's license (preferred for training, required for most jobs)
- 20 hrs./week, Monday-Friday 2:30 pm 6:30 pm
- Graduates are hired in f/t maintenance positions starting at \$16 \$18/hour with benefits.
- Some apply for union apprenticeships

### **Building Pathways Pre-Apprentice Program**

ABCD – Training takes place in Dudley Sq.

https://buildingpathwaysboston.org/

This six-week program was originally established and sponsored by the Boston Building Trades, so there are deep industry expertise and connections. The goal is to prepare participants to gain preparation and a competitive edge in the apprenticeship application process. The training is general and students get exposure to a variety of trades through field trips to different shops. Graduates earn OSHA 10 and Pre-Apprentice certificates.

- 18 years or older
- Specifically targeting women and communities of color
- BP does serve Chelsea in their range minimum age is 18, targeting women and communities
  of color
- Screening includes attending information session, drug test, interest in construction
- High School Equivalency
- TABE testing
- Physical aptitude test (can they follow instructions)
- Valid driver's license
- 6-weeks training, Monday-Friday, 7:00 am 3:30 pm



Placement rate is over 86% -- either in apprenticeship or a job in the industry leading to an apprenticeship.

The numbers of apprenticeship openings vary from trade-to-trade and year-to-year, but there are always more applications than openings.

### Youth Build/Boston Trades Assessment Center at RCC

http://www.youthbuildboston.org/new-programs/

The three-week Introduction to Building Trades Program offers participants exposure to constructions trades and OSHA 10, CPR/First Aid, RRP, Signal Rigger and 2A/IC Forklift Crane certifications. This is a pre-requisite for the nine-week Construction Methods and Materials Program. The nine-week program consists of 400 hours of hands-on, onsite building with certified instructors. Participants who complete the nine-week course earn a Pre-Apprentice certificate and three college credits that can be applied towards an associate's degree in Engineering, Management, and Liberal Arts.

- 18-26 years old only
- Monday-Friday from 8:00 am 4:00 pm
- Also have a Building Trades Exploration class for HiSET preparation and exposure to trades for 16-24 year olds

### Just a Start YouthBuild, Cambridge

https://www.justastart.org/education-and-training/youthbuild/

JAS YouthBuild is a comprehensive youth development program for 16 to 24 year-old out-of-school-youth that provides education leading to grade level increases and credential attainment (high school diploma or HiSET – formerly GED); career exploration and employment skills building; and leadership and life skills training. Through their housing community service work experience, youth gain occupational skills in construction leading to HBI PACT and OSHA certificates (industry recognized credentials).

### **BHCC - Energy and Sustainability Management**

http://bhcc.edu/programsofstudy/programs/energyandsustainabilitymanagement/

This is a 26-28 credit certificate program combining coursework in project management and finance for renewable and efficient energy projects with training in operating and maintaining buildings. "Graduates of the ESM program may seek employment in a variety of entry-level positions such as technicians, coordinators, administrators, sales representatives, or specialists in a wide range of industries including renewable energy, construction, facilities management, environmental protection services, energy efficient services, utilities, and industrial operations. In addition to earning BHCC's ESM Certificate, graduates will qualify to sit for the LEED Green Associate (LEED GA) exam, a nationally recognized certification administered by the US Green Building Council."



### Minuteman Technical Institute (MTI), Lexington

**Building Construction Technology** 

http://www.minutemanti.org/post-graduate-programs/programs-one-pagers/building-construction-technology

Minuteman provides the technical training for the Associates in Building Construction Technology offered by Middlesex CC. Minuteman Tech also offers a ten-month, tuition-based program in residential carpentry for adults. In addition to a Construction Technology Certificate from MTI, graduates earn OSHA 10 and one year's credit towards Construction Supervisor License.

- 10 Months, daytime program September-June
- Tuition and fees for an out-of-district student are \$7,300

### Associated Builders and Contractors Massachusetts (ABCMA)

http://www.abcma.org/about-us.html

Morisset St. Preux is the new Merit Apprenticeship Program (MAP) Director

The Massachusetts Chapter of Associated Builders and Contractors is the largest construction trade association in the Commonwealth, representing over 400 local general contractor, subcontractor, supplier, and associate companies. These companies employ more than 22,000 workers throughout Massachusetts.

ABC promotes a "merit" philosophy, which is that "all construction contracts, both public and private, should be awarded to the lowest responsible bidder, regardless of labor affiliation".

ABC sponsors the Merit Apprenticeship Program (MAP) at 20 Merit Apprenticeships slots in a variety of trades about every six months in Boston and they have trouble filling them with eligible candidates. They are looking for people who have some background in the trades already, enough to know what the work entails and to have made a deep commitment to it. Otherwise, ABE is reluctant to invest time and money in apprenticeship.

### Requirements:

- Attend an Apprenticeship 101 Orientation
- Be at least 18 years of age
- High School Equivalency
- Possess a valid driver's license and have a dependable means of transportation
- OSHA 10
- Applicants who make it through initial screening may be asked to take a physical aptitude test, depending on the trade of interest (some prior experience in and commitment to trades)

ABC doesn't have an English minimum requirement now, because it's not required by state or federal government. But, they are now piloting an ESOL (or Spanish/English) class (through Gould) for laborers working in ABC member companies, because language is an increasing issue.



### **Gould Construction Institute, Woburn**

### http://www.gwgci.org/

Gould is a proprietary school that provides the classroom-based training component for the Merit Apprenticeship Program sponsored by Associated Builders and Contractors (ABC).

Gould also takes walk-ins for training (who are not in registered apprentice programs). In this case, tuition is \$1,775 for the classroom-based training that would result in a certificate of hours completed. They also offer short-term certification trainings, such as OSHA 10. A graduate would have to be hired by a company to complete their on-the-job training hours. Gould doesn't do any career development or job placement. They also take graduates of pre-apprenticeships.

### Application requirements:

- 18 years old
- High School Equivalency
- No testing, just an application

### **Northeast Metropolitan Regional Vocational High School**

http://www.neadulted.com/courses/trade-preparation

Based in Wakefield, the Community Education Department offers tuition based-courses on cabinet making and OSHA construction health and safety, basic construction, and construction licensing preparation. Some are listed as apprenticeship courses, but the information about the apprenticeship sponsor or application process isn't included in the catalogue. They offer classes in the evening.

### **Mass Building Trades**

http://massbuildingtrades.org/boston-metropolitan-district-building-trades-council

Mass Building Trades is the overarching coordinating body for 74 local trade unions. The information about apprenticeship programs is complicated – applications taken during specific time periods, GED, aptitude test required in many cases. Provides reams of information about the various joint apprenticeship sponsors, but not so helpful to our work without a bridge or entrance in.

### **Examples of Building Management Companies with strong Boston/Metro Presence**

- Consigli have information about commitment to diversity
- Shawmut Construction –Employee owned, philanthropic
- NEI General Contracting (previous Chelsea CONNECT partner?)
- Wynn Residential
- Corcoron
- Geneson
- Peabody
- Maloney
- Cummings
- Dolben
- GTI Commercial and Residential



- Lundgren management
- Corcoran
- Trinity
- Mediate Management Co. (Bunker Hill Industrial Park)
- The BBJ Research Department largest commercial property managers
   http://www.bizjournals.com/boston/subscriber-only/2013/06/28/mass-commercial-property-managers.html

### **Other Models and Resources**

- Generation Next, This Old House Foundation might be a source of funding to support pathways for underserved communities. https://www.thisoldhouse.com/more/toh-generation-next
- Building Futures is a pre-apprenticeship program in Providence that is similar to Building Pathways in Boston. <a href="http://www.bfri.org/">http://www.bfri.org/</a>
- Build Your Future is a career exploration site sponsored by National Center for Construction Education and Research to attract young people to careers in construction and crafts trades <a href="http://byf.org/about">http://byf.org/about</a>.
- The Aspen Institute is doing a national survey of construction pre- and apprenticeship trainings in anticipation of the potential infrastructure projects. It will serve as an update to a similar survey conducted in 2009. <a href="http://www.aspenwsi.org/resource/construction-results-national-survey/">http://www.aspenwsi.org/resource/construction-results-national-survey/</a>. The report will be informative when it's released (no date announced). <a href="https://ina.workforcegps.org/blog/general/2017/03/27/17/37/Aspen-Institute-Announces-Survey-to-Help-Identify-Construction-Related-Workforce-Services-with?p=1">https://ina.workforcegps.org/blog/general/2017/03/27/17/37/Aspen-Institute-Announces-Survey-to-Help-Identify-Construction-Related-Workforce-Services-with?p=1</a>



### **Health Care Pathway**

### **Opportunities**

- The state-funded <u>Training Resources and Internship Networks (TRAIN</u>) pilot ends this year (2017). Gleaning the lessons from Bunker Hill Community College's participation provide an opportunity to establish strategies to meet students particular academic and social/personal needs and to help accelerate their education and training.
- There are entry- and mid-level positions that do not require more formal education than high school diploma.
- Labor market indicators including job descriptions show that there is still growth in the region.
- The pathway is aligned with Metro North Regional Employment Board priorities.
- The ongoing state-wide survey to employers that is aimed at gathering the range of titles, scope of work, and certificate requirements across the state for the Medical Assistant position may inform education and training programs' efforts to build a stronger profession.
- The Advanced Leadership in Geriatric Care program developed by Boston's Hebrew Senior Life with seed funding by The Boston Foundation provides an excellent curriculum and approach to advance the role of CNAs with a leadership focus. The curriculum can be replicated.
- MA Health and Human Services Personal and Home Care Aide State Training initiative's
   (PHCAST) purpose is to define core competencies among direct care workers, and to develop
   a training to serve as a base for further competency standardization. It is a collaborative effort
   with internal (e.g., Executive Office of Elder Affairs) and external partners (e.g.,
   Paraprofessional Healthcare Institute). This information will help inform future pathway
   development.

### **Gaps and Challenges**

- CNA training is a primary focus in healthcare training for lower skilled adults. Given the
  mobility limits this pathway creates (exacerbated by BHCC's recent decision to end its LPN
  program), attention is needed to create advancement steps for Home Health Aides and CNAs.
- Partnerships across education and workforce systems need to be strengthened.
- More contextualized approaches to healthcare in ABE curricula are needed, especially for English Language Learners.
- Awareness of state-wide initiatives aimed at building consistency in the training for those interested in allied health and direct service professions, needs to be expanded beyond specific academic programs in a given community college.
- The connection within existing resources to provide comprehensive student supports needs to be expanded and integrated.



### Questions

- Once the current students are "taught out" of BHCC's LPN program, how will advancement for a CNA be established and promoted?
- How can resources be leveraged to continue the comprehensive approach to healthcare training demonstrated in TRAIN?
- How can the group engage the Community Action Program to join this effort?



# LABOR MARKET INFORMATION

	•		•		
2014 – 2024	Median	Growth #	Growth	Postings using	Description
	Hourly Wages*	openings/ year	%	02150 (25 miles)	
Certified Nursing	\$14.50	48	1.20%		Provide basic patient care under direction of nursing
Assistant					staff. Perform duties such as feeding, bathing,
					dressing, grooming, and changing linens. May
					transfer or transport patients. Includes nursing care
					attendants, nursing aides, and nursing attendants.
Home Health Aide	\$12.88	70	3.10%		Provide routine individualized healthcare such as
					changing bandages and dressing wounds, applying
					topical medications to the elderly, convalescents, or
					persons with disabilities at the patient's home or in a
					care facility, monitoring and/or reporting changes in
					health status. May also provide personal care such
					as bathing, dressing, and grooming of patient.
Medical Assistant	\$18.09	22	1.5%		Perform administrative and certain clinical duties
					under the direction of a physician. Administrative
					duties may include scheduling appointments,
					maintaining medical records, billing, and coding
					information for insurance purposes. Clinical duties
					may include taking and recording vital signs and
					medical histories, preparing patients for
					examination, drawing blood, and administering
					medications as directed by physician.
Pharmacy Technician	\$14.00	110	4%		Prepare medications under the direction of a
					pharmacist. May measure, mix, count out, label, and
		(MA)**	(MA)		record amounts and dosages of medications
					according to prescription orders.



### REQUIREMENTS

Occupation	Typical Education and Training	Certifications	Relevant Industry Associations
Certified Nursing	No high school degree or HSE:	State licensing exam and skills test	The National Association for Home Care &
Assistant	13.8%	required.	Hospice (NAHC)
	HS degree or HSE: 37%		
	Some college: 31.7%	Massachusetts CNAs take the Nurse	
		Aide Competency Evaluation (NACE),	
	The most direct path is to	administered by the American Red	
	complete a training program	Cross (ARC).	
	explicitly approved by the MA		
	Department of Health.		
Home Health Aide	No HS or HSE: 13.8%	No certification is required.	The National Association for Home Care &
	HS or HSE.: 37%		Hospice (NAHC)
	Some college: 31.7%		
Medical Assistant	Need high school degree or	No certification is required.	American Association of Medical Assistants
	equivalency.		
	HS degree or HSE: 23.3%		
	Some college: 42.9%		
	Associate Degree: 22%		
Pharmacy	Need high school degree of	After successfully completing a Board-	American Society of Health System
Technician	equivalency.	approved training program or 500	Pharmacists
		hours of pharmacy technician	
	HS or HSE: 25.3%	employment and passing the Board	
	Some college: 34.4%	approved exam, one is required to be	
	Associate Degree: 20%	either certified by the MA State Board	
		of Pharmacy or be nationally certified.	



<sup>\*</sup>Median wages are usually a good proxy for wages of workers in the position for a few years.

<sup>\*\*</sup>Except for where indicated (MA) for Massachusetts-wide, data is for the Metro North region.

Occupation	Typical Education and Training Certifications	Certifications	Relevant Industry Associations
		Pharmacy Technicians must obtain a license.	
		ווכפווטפי.	
		Approved National Exams: Pharmacy	
		Technician Certification Board (PTCB)	
		and Exam for the Certification of	
		Pharmacy Technicians (EXCPT).	



### EDUCATION AND TRAINING AVAILABLE LOCALLY (INCLUDING ABE, SKILLS TRAINING, BRIDGE TRAINING)

### **Health Care Career Preparation**

Bunker Hill Community College Adult Basic Education and Transitions to College Programs offers a Health Career Pathways courses at the Chelsea campus. The Health Career Pathways program includes four classes: Health Care English, Health Care Math, and Health Care Science, and Success in College, Health Careers, and Technology. The program lasts 32 weeks and serves 15 students per course.

This program provides the academic rigor students need for college level work in English and math, as well as, having the students create career pathways plans in the healthcare field. Students are then ready to apply to the allied heath certificate programs offered at the College. The ABE program collaborates with the LARE Institute/American Training.

The **Cambridge Community Learning Center** offers a contextualized ESOL/Healthcare Career Prep program. Classes meet four mornings per week and include English, math, computer skills, and career awareness. The program prepares immigrants to succeed in training for a job in healthcare (e.g. nursing assistant or home health aide.) In FY 2017, two groups of 13 students per group will be enrolled for one four-month cycle each for a total of 26 students served. (Metro North residents are welcome.)

### **Certified Nursing Assistant Training**

The American Red Cross offers exclusively face-to-face CNA classes in Cambridge. Participants need to pass a reading and math assessment or present their high school diploma or high school equivalency certificate, pass a Red Cross criminal background check, and complete the Red Cross physical form/TB test. Classes consist of two sections: in-class training and clinical rotations. During their clinical training, students work directly with patients in a health care facility.

Bunker Hill Community College offers an 8-week intensive CNA (7 cr.) program on its Chelsea Campus each fall and spring semester with online and in-class learning plus off-site Clinical Practica. The courses – Principles of Clinical Practice (online course) Patient Care Skills (in-class 2-3 nights/week), and Practicum for Nurse Aide (off-site) – must be taken concurrently. Participants need to have a high school diploma or equivalency and have successfully completed a college writing and math course, or take the college placement tests or ESL Placement Test. Students are eligible for certification by the American Red Cross upon completion of the course. BHCC's Certified Nurse Assistant Program is accredited by the MA Department of Public Health, Nurse Aide Registry, DPH/Division of Health Care Quality.

The CNA program is one of three BHCC health professional training programs (other two programs: EMT and Pharmacy Tech.) participating in the <u>Training Resources and Internship Networks (TRAIN)</u> Program sponsored by a grant (2016) from Massachusetts Department of Higher Education. The



TRAIN program includes a workforce readiness course and an internship at Massachusetts Eye and Ear Infirmary. TRAIN provides free career training to 36 long-term unemployed Massachusetts residents. Students enrolled in the TRAIN program will receive a \$200/month stipend to cover transportation and other expenses. Participants must have been unemployed for 26 or more continuous weeks, and have a high school diploma or high school equivalency and a clean CORI to qualify for the program. Applicants must also possess a Green Card if they are not U.S. citizens.

Cambridge Community Learning Center (CLC) in partnership with the Academy of Health Care Training (The Academy), and the Rindge School of Technical Arts (RSTA) offers an 11-week CNA training. The CLC provides contextualized ESOL and math instruction, the Academy provides CNA instruction, and RSTA provides the training space, and their faculty share curriculum and other resources. The initial 11 weeks of instruction includes three weekly ESOL classes. The number of ESOL classes will be reduced in weeks 12–17, and the occupational training hours will increase accordingly. The course will conclude with three weekends of clinical work in a healthcare facility, supervised by The Academy. CLC coordinates with the ESOL and training instructors to integrate the curriculum into weekly lessons. The Academy instructors are Department of Public Health and Division of Professional Licensure approved. A Cambridge Employment Program job developer cultivates existing relationships and develops new relationships with health care employers and provides student employment assistance to students.

**Jewish Vocational Services (JVS)** provides a 14-week CAN Training Program. It is a full-time program designed for non-native, intermediate English speakers. The focus is on strengthening students' English and computer skills, and preparing them to pass the CNA certification exam. Program serves Metro North residents.

The **Spectrum Health Care Training** program is a for-profit organization offering CNA training at its Lynn site. Teachers are approved by the Commonwealth of Massachusetts Division of Professional Licensure, Office of Private Occupational School Education and Massachusetts Department of public Health. It is a 120-hour program that meets Monday through Friday offering both day and evening classes. Tuition is \$1,000. Students successfully completing the Nursing Assistant Training program are eligible to take the Nurse Aide Competency Evaluation (NACE), administered by the American Red Cross.

### **Home Health Aide**

The Patient Care Technician 26 credit program at **Bunker Hill Community College** is offered at the Chelsea campus. Being qualified for home health aide employment is among the occupations available to graduates. Graduates can perform direct patient care competently and perform basic computer skills. The program prepares students in Healthcare Provider CPR certifications. They are also eligible to sit for certification exams for State Nurse Aide and Home Health Aide. To be admitted into the program, students need a high school diploma or its equivalency, and complete college placement tests in reading and English.



Charlestown Community Center through funding from English for New Bostonians and the Office for Housing and Urban Development (HUD) offers a two part Home Health Aid seventy-five hour (15 hours/week, 3 days/week, for 5 weeks) training program. The first part, ESOL Home Health Support Program, provides ESOL training within a contextualized health care curriculum. The second part is focused on teaching the skills needed to be a competent home health care aide. The program was developed and is taught by a nurse from Associated Home Health. Associated Home Health also provides the simulation equipment, and sees hiring program completers a priority. Influenced by the I-BEST model, the ESOL teacher team teaches the second part of the course with the nurse instructor. Two cohorts have completed the program with a 100% completion rate. Of those who have completed, half are employed as home health care workers.

The **Cambridge Community Learning Center** program described above incorporates Home Health Aide training, too. The main difference from CNA training is that Home Health Aides are not preparing for certification.

The **Spectrum Health Care Training** program also offers Home Health Care Aide training at its Lynn site

### **Medical Assistant**

The **Medical Assistant Certificate Program** at **Bunker Hill Community College** is a 28 credit program offered at the Chelsea Campus each fall and spring. Graduates are able to assist with the examinations and treatment of patients in clinical areas; phlebotomy; and EKG, and perform computer and medical office tasks. Admission requirements include possessing a high school diploma or its equivalent, and placing out of, or completing ENG095 and RDG095 with a C or better.

The **Medical Professional Institute** in Malden is a private for-profit organization offering a six-month medical assistant program. It is a MA approved training center. Graduates experience 355 hours of classroom learning, 135 laboratory hours, and 240 clinical hours. Among the courses are: Phlebotomy and Specimen Collection, Anatomy, Physiology, Medical Terminology, Medical Office Administration, and Physician's Office Laboratory Testing. To be accepted candidates must show evidence of high school graduation or equivalency.

### **Pharmacy Technician**

**Bunker Hill Community College's Pharmacy Technician** program is a 16 credit program. Courses include: Pharmacy Operations, Pharmaceutical Calculations, Pharmacology, and Pharmacy Law. Students also participate in a 150 hour internship in a pharmacy. The program is approved by the MA Board of Registration in Pharmacy. Also, the Pharmacy Technician Certification Program is one of the three TRAIN health professional training programs (See BHCC CNA description above.) The program partners with CVS for internship placements.

The Pharmacy Technician Certification Training Program at **Jewish Vocational Services** is a full-time, 12 week program that prepares participants to pass the national pharmacy technician certification exam. The program includes a 114-hour externship at CVS, Students are in classes four days per week



from 9:00 am – 3:00 pm and on externship at CVS for an additional 9.5 hours per week. Ongoing support is provided throughout the program. Ideal candidates have a high school diploma/equivalency, communicate well in English, and have a clean CORI.

### **Models to Consider**

LaGuardia Community College, New York, NY
 GED Bridge to College Careers Program/NY-BEST Integrated Academic and Healthcare Careers
 Pathway Training

The New York Basic Education and Skills Training (NYBEST) Programs at LaGuardia Community College are designed to address the needs of non-traditional, adult students who may read at levels far below the secondary threshold, have family responsibilities, and face economic and educational disadvantages that often impede a professional course of study.

NYBEST integrated healthcare career pathways programs employ a developmental instructional model that includes a pre-training vestibule focused on developing academic skills needed to complete rigorous training, academic support services, job placement services and both didactic and student-centered teaching strategies. Training and curriculum is designed and taught collaboratively by an experienced Allied Health technical instructor and a basic skills educator trained to teach adult learners.

 The Genesis Center, Providence, RI https://john-lloyd-a6xx.squarespace.com/adult-education/

The Genesis Center offers a twelve-week Health Care Orientation training program for those interested in careers in healthcare or direct support. Participants learn basic, entry-level content that will familiarize them with the field and potential career paths, including CNA, Home Maker, Direct Support, and Elder Care. September and January classes are offered in partnership with Rhode Island Hospital and Women and Infants Hospitals' Stepping Up program, which assists students in getting internships and jobs.



### **Supporting Documents**

- 1. Action Plan Recommendations
- 2. Inventory: Key Adult Basic Education and Workforce Training Centers Metro Chelsea Area
- 3. Interim Report
- 4. November 10, 2016 Advisory Group Meeting: Power Point Deck



# Chelsea ABE/Workforce Development Advisory Group Action Plan Recommendations

set of guiding assumptions, labor market data, and criteria through a process facilitated by World Education. Chelsea residents and suggest how the Advisory Group might address them. The career pathways were selected by the Advisory Group, based on a World Education was tasked with researching three distinct career pathways and to identify opportunities and challenges/gaps in services for Group). The Advisory Group was convened by Chelsea CONNECT to guide and inform the career pathway research conducted by World Education. This action plan reflects the recommendations from World Education, Inc. to the Chelsea ABE/Workforce Development Advisory Group (Advisory

toundation necessary tor developing an effective career pathway system This action plan focuses on recommendations related to overall network development and building linkages to existing services in order to create a

details and outline the activities, identify the leads, target dates, resources, opportunities, and constraints as they emerge, through an iterative World Education convened a meeting of the Advisory Group on June 1<sup>st</sup> to present these recommendations and solicit feedback on the action plan process in an effort to make the action plan realistic and achievable. From this point forward, it will be the work of the Advisory Group to flesh out the

## **RECOMMENDATION #1**

Build network capacity and strengthen the foundation that is essential to build an effective career pathways system.

commitment to a shared mission is required to build and sustain an effective career pathway system Rationale: ABE/Workforce Advisory members expressed interest in seeing the group continue beyond this project. A strong foundation and

Priority Action Steps	How you'll do it	Leader	Constraints, Opportunities,	Target Date
			Resources	
1. Commit to a shared mission and	Review original problem statement	Stefanie	<b>C</b> = Many committees and	Draft mission
goal.	from the RFP.		networks with overlapping	to be shared
			membership and missions.	for discussion
	Review research from WEI.		This group needs to sharpen	by June 16.
			its focus to address gaps not	
			addressed elsewhere.	

Priority Action Steps	How you'll do it	Leader	Constraints, Opportunities,	Target Date
			Resources	
2. Identify overlapping and	Share WEI matrix initiative template	Sandy	$\mathbf{R}$ = The updated matrix to	Done 6/8
intersecting member initiatives,			identify resources.	
committees, to identify	Revise and build the matrix aimed at	Barbara will		
opportunities, duplicated efforts,	listing initiatives.	update and	<b>C</b> = Competition as well as	Barbara will
etc.		send around	collaboration among	circulate the
	Add other relevant networks targeted	the matrix	members is a reality.	matrix by 6/30.
	needs (e.g., childcare, transportation,	for member		
	CONNECT partners).	input.		
3. Identify additional members &	Distinguish members from	Meelynn and	$\mathbf{R} = \mathbf{Members}$ participate in	M & D will
stakeholders	stakeholders.	Darrell	diverse networks with	meet and
			specific expertise and	solicit ideas for
	Each member will scan their contacts		perspectives that can be	identifying
	and other networks.		tapped.	stakeholders
	Start w/ student and resident needs		<b>R</b> = ABE and Workforce	and members
	(e.g., childcare, transportation, immigration) and seek out related		Training Provider Inventory	by 6/30.
	expertise.		<b>C</b> = <b>T</b> ime is limited and there	
	Communicate a targeted mission and		are many competing	
	focus (that is not redundant to other		various networks and	
	groups) when reaching out to potential		groups. Identifying is easier	
	members. Be clear about focus of		than getting people to the	
	group and what you're asking of them.		table.	

-	Driority Action Ctons	LOW YOU'II AO II	loador	Constraints Opportunities	Target Date
					c
4	4. Articulate a leadership structure			<b>R</b> = DOL Career Pathways	
	and process for decision making			Toolkit, pg. 14.	
	and accountability.				
л	5. Articulate process for				
	communication and expectations				
	for sharing information, e.g.,				
	funding opportunities, new				
	initiatives and changes in policy				
	landscape.				

# RECOMMENDATION #2

Build stronger linkages to stakeholders (e.g. REB, training providers, employers, NAMC), to increase accessibility and opportunity for Chelsea residents.

leverage local/regional expertise and resources should be taken before any attempts to duplicate or develop similar local training. Rationale: There are underutilized training resources in the region that could be accessible to Chelsea residents with improved linkages. Steps to

Priority Action Steps	How you'll do it	Leader	Constraints, Opportunities,	Target Date
			Resources	
<ol> <li>Build stronger linkages and</li> </ol>	Organize a meeting or series of			
coordination with Metro North REB	meetings to:			
to align and build on mutual priority	<ul> <li>Promote and build awareness of</li> </ul>			
pathways, such as manufacturing,	Chelsea Network.			
housing management.	<ul> <li>Learn about the overarching goals</li> </ul>			
	and initiatives of REB and WIOA			
Tap into the synergy that is creating the	plan.			
broader collaboration (i.e., WIOA push)	<ul> <li>Identify differences in focus (WIOA</li> </ul>			
to assess how research and	MOU and partners doesn't capture			

Priority Action Steps	How you'll do it	Leader	Resources	larget Date
partnerships can support the Chelsea network's linkages.	<ul><li>all the need).</li><li>Be better informed about labor market data.</li></ul>			
	<ul> <li>Educate REB about the particular needs of Chelsea and gaps in services.</li> </ul>			
	<ul> <li>Learn about results of REB's investigation of building</li> </ul>			
	<ul><li>maintenance pathways.</li><li>Identify mutual goals and interests.</li></ul>			
2. Build linkages to Northeast Advanced Manufacturing Consortium to bridge gaps in NAMC recruitment and training of low- skilled residents.	Organize a meeting or series of meetings to:  Promote and build awareness of Chelsea Network.  Define the problem and gaps in service for Chelsea target population.  Investigate linkages between lower paid food manufacturing (e.g. Chelsea companies) and betterpaying advanced manufacturing to explore whether a pathway/bridge might be developed.  Identify elements of bridge to manufacturing (e.g. career awareness/exposure, academic skills, workforce readiness/soft skills needed).			

Priority Action Steps	How you'll do it	Leader	Constraints, Opportunities,	Target Date
3. Formalize recruitment pipeline from Chelsea to Building Pathways preapprenticeship program.	<ul> <li>Organize a meeting or series of meetings to:</li> <li>Promote and build awareness of Chelsea Network.</li> <li>Define the problem and gaps in service for Chelsea target population.</li> <li>Identify elements of bridge to construction (e.g., career awareness/exposure, academic skills, workforce readiness/soft skills needed).</li> </ul>			
4. Formalize recruitment pipeline from Chelsea to BEEMS facilities maintenance program.	<ul> <li>Organize a meeting or series of meetings to:</li> <li>Promote and build awareness of Chelsea Network.</li> <li>Define the problem and gaps in service for Chelsea target population.</li> <li>Identify elements of bridge to facilities maintenance (e.g., career awareness/exposure, academic skills, workforce readiness/soft skills needed).</li> </ul>			
5. Explore pre-apprenticeship recruitment opportunities with Morisset St. Preux, new Director of Workforce Development and Apprenticeship at Associated Builders and Contractors (ABCMA).	Organize a meeting or series of meetings to:  Promote and build awareness of Chelsea Network.  Define the problem and gaps in service for Chelsea target population.			

Priority Action Steps	How you'll do it	Leader	Constraints, Opportunities, Resources	Target Date
	<ul> <li>Identify elements of bridge to construction (e.g. career awareness/exposure, academic skills, workforce readiness/soft skills needed).</li> </ul>			
6. Incorporate lessons from state-wide initiatives in healthcare pathways, and from the Training Resources and Internship Networks (TRAIN) pilot to integrate comprehensive student support.	Organize a meeting with Geoff Vercauteren, Director of Healthcare Workforce Development at MA Department of Higher Education.			
7. Create career steps for advancement for Home Health Aides and CNAs with employers.			R = Hebrew Senior Life Advanced Geriatric Care curriculum to advance CNA.	
8. Consider outreach to a variety of credible training providers, including tuition-based opportunities, to develop a recruitment pipeline to the targeted pathways.			R = Career pathway research and education and training inventory developed by World Ed.  C = Career Source is bound by Eligible Provider List for WIOA-funded training and is not supposed to have a preferred provider. ABE programs are not constrained in this way.	

## RECOMMENDATION #3 Build individual program capacity

so that they are better equipped to help participants explore, prepare for, and access the opportunities, options, and career pathways. Rationale: Individual organizations and programs need to use the expertise tapped by the network to inform their curriculum and program design

Priority Action Steps	How you'll do it	Leader	Constraints, Opportunities, Resources	Target Date
1. Review demographic and			R = BHCC Welcome Back	
participant applications to			Center for those with health	
employment background of			care background.	
immigrants and ELLs in Chelsea to			<b>R</b> = WES Global Talent Bridge	
develop targeted approaches (for			resources for high skilled	
example distinguish approaches for			immigrants.	
high skilled immigrants lacking ESOL			http://www.globaltalentbrid	
skills versus those with limited			ge.org/	
2. Illiciteds collection and	incorporate career evaloration and		Development system and	
Training (IET) approaches to ABE	sector/occupational content and		resource library	
curricula, especially for English	workforce preparation skills into		http://www.sabes.org/,	
Language Learners, to increase	academic curriculum (e.g.,		LINCS resources collection	
student understanding of career	contextualized instruction, integrated		and online PD courses	
pathways and opportunities in	education and training).		https://lincs.ed.gov/,	
health care, manufacturing, and/or			National College Transition	
construction and maintenance.			Network	
			http://www.collegetransitio	
			n.org/home.html,	
			Penn State IET Toolkit	
			https://tinyurl.com/ycb83pm	
			Webinar on IET Models	
			http://www.collegetransitio	
			n.org/services.webinars.html	

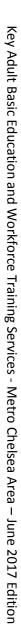
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Priority Action Steps	How you'll do it	Leader	Constraints, Opportunities, Resources	Target Date
			<b>C</b> = Part-time staff with limited time for PD and for curriculum development and preparation.	
<ol> <li>Address skills gap through academic rigor and inclusion of career</li> </ol>	Pursue training and PD on aligning curriculum with the College and Career		<b>R</b> = Same as above, plus Employability Skills	
readiness & employability skills in	Readiness Standards and employability		Framework	
ABE and transition curriculum.	skills frameworks.		http://cte.ed.gov/employabi lityskills/ Achieve the Core	
			intely//demicacticeore.org/	
			limited time for PD and for	
			curriculum development and preparation.	
<ol> <li>Share instructional and advising resources to develop a consistent,</li> </ol>				
aligned approach to raising awareness of career pathways and opportunities across Advisor Group members.				



Agency
Funding
Service Location
Services
Schedule/ Open Wait Summers?
Wait List
Access to Public Transport/ Support Provided?
Cost
Child Care
Staff Speak Other Languages?
Comments

				Job Corps	Education	Adult	Center for	Cambridge				English	School of	<b>New England</b>						Concepts	Future Media		Center	Learning	Community				<b>Brooks House</b>	Phillips			,	Project	Literacy	CAMBRIDGE
		Labor	Dept. of	U.S.			fees	Tuition and					fees	Tuition and						fees	Tuition and				MA DESE	donations	volunteers,	Harvard,	from	Support				Cambridge	City of	GE
		regional office	Boston	Statewide,				n/a						Cambridge							Cambridge				Cambridge					Chelsea					Cambridge	
	to college,		GED/HiSET, computer,	ABE, diploma completion,	:	volunteer opps	computer literacy,	ESOL, job training,					college	ESOL, transition to						and graphic design	Video, web, multimedia,		opps	family literacy, volunteer	ABE, ESOL, GED/HISET,	School on Fri. afternoons	Cambridge Rindge & Latin	kids at CHANCE,	tutoring; Also, ESOL for	ESOL- one-on-one ESOL				literacy, volunteer opps	ESOL, computer, family	
Open summers	weekends/	evenings,	afternoon,	Morning,	Open summers	weekends/	afternoon, evening,	Morning,				summers	afternoon/Open	Morning,					summers	afternoon/Open	Morning,		summers	afternoon/Open	Morning,				summers	Evening/Open	summers	morning/Open	and Saturday	afternoon, evening,	Morning,	
				No				No						N <sub>O</sub>							No				No					No					No	
				Depends on site/Yes				Harvard/No						Harvard Sq./No							Kendall Sq./No				Central Square/No					Harvard Sq./No					Central Sq./No	
				Free	available	scholarships	subject,	Varies by					subject	Varies by				available	discounts	program	Varies by				Free					Free					Free	
				No				N <sub>O</sub>						N <sub>O</sub>							No				yes					No					ON	
				None indicated	Mandarin	German, Chinese	Portuguese,	Spanish, French,				Chinese	Portuguese and	Spanish, French,							Not indicated	language line	(limited), French,	Spanish, Chinese	Haitian Creole,					n/a			Portuguese	French,	English, Spanish,	
case;	of open court	resident, free	legal US	16-24 yrs.,	own device"	"Bring your	classes are	All computer	only.	or residency	work permit	student visa,	students with	Accepts	Vouchers	ITA, Trade	Section 30,	Provider -	Training	Job Quest	Eligible MA			residents only	Cambridge											





Agency
Funding
Service Location
Services
Schedule/ Open Summers?
Wait List
Access to Public Transport/ Support Provided?
Cost
Child Care
Staff Speak Other Languages?
Comments

YouthBuild	Ross Education	
Primary: U.S. Dept. of Labor	Tuition and fees	
Cambridge and Chelsea areas	Tuition and Cambridge fees	
Basic math, computer, diploma completion, GED/HiSET, job readiness, volunteer opps	Cardio-phlebotomy tech., Morning, medical assisting evenings, certificate, patient care tech., and phlebotomy tech.	
Morning, afternoon/Open summers	Morning, evenings/Open summers	
Z <sub>0</sub>	2 0	
Not listed/Yes		
Free	Varies by program, no financial aid	
N <sub>o</sub>	<b>Z</b> 0	
None indicated	No	
17-24; high school dropouts	Eligible MA Job Quest Training Provider - Section 30, ITA, Trade Vouchers	residential training program.

CHARLESTOWN/REVERE	OWN/RE	VERE								
Smart from	Donations	Donations Charlestown	ESOL, computer literacy,   Morning/Not open	Morning/Not open	No	Sullivan Square	Free	Yes	Spanish,	Must have or
the Start	and private		financial literacy, career summers	summers					Cantonese,	be primary
	funding		planning, volunteer opps						Somali, Haitian	caregiver to
									Creole at other	children ages
									sites	0-5, Section 8
										or subsidized
										housing
										residents, or
										receive public
										assistance
Charlestown	Not	Charlestown	Computer, basic math,	Morning/Not open	No	Not listed/No	Free	No	Spanish,	16+ yrs. old;
Community indicated	indicated		ESOL, citizenship,	summers					Cantonese	MA resident
Center			GED/HiSET, volunteer							
			opps							
	•					-				

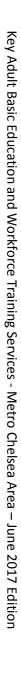


LARE	Inter- generational Literacy Project	Bunker Hill Community College	CHELSEA	First Cong. Church of Revere	Revere Community School	Agency
Tuition and fees	MA DESE	MA DESE		Private donations	City of Revere	Funding
Chelsea	Chelsea	Chelsea		Revere	Revere	Service Location
Computer, Basic Math, GED/HISET, job training, readiness, volunteer opps	Computer, ESOL, Spanish GED/HiSET, volunteer opps	ESOL, distance learning, computer, family literacy, Spanish GED, GED/HiSET		ESOL, volunteer opps	ESOL, Citizenship GEDI/HiSET, job readiness, volunteer opps	Services
Morning, Afternoon, Evening, open summers	Morning, evening/ Open Summers	Morning, afternoon, evening, weekends/ Not open summers		Mornings/Not open summers	Evening/Not open summers	Schedule/ Open Summers?
N <sub>o</sub>	Yes	Yes, 36 month wait time		No	Yes, 3-6 months	Wait List
Not listed/No	Not listed	/No		Not listed	Wonderland	Access to Public Transport/ Support Provided?
Varies by subject	Free	Free		\$40 for books	Varies by subject	Cost
	Yes	N <sub>O</sub>		No	Yes	Child Care
Spanish, Cambodian, English	Spanish, Portuguese, French, Somali	Spanish, Vietnamese, Portuguese, Arabic		Spanish	Spanish, Arabic, Mandinga, Wolof, French	Staff Speak Other Languages?
	Parents of Chelsea Public School students; Should be Chelsea resident; primarily caregiver of at least one child under age 10	Few sites offer Spanish GED preparation/ testing; Must meet Accuplacer score requirements			Revere residents only; Scholarships available for Revere public school parents	Comments

Key Adult Basic Education and Workforce Training Services - Metro Chelsea Area – June 2017 Edition



Pathways Inc.	LYNN	La Comunidad	Everett Adult Learning Center	<b>EVERETT</b>	Learning Program	Adult	Harborside	East Boston	English Innovations		East Boston Ecumenical Center	<b>EAST BOSTON</b>	Chelsea Community School		Agency
MA DESE		Donations, grants	MA DESE, Donations					MA DESE	No sources listed		Private Foundation; BALF; EDIC	NOT	City of Chelsea		Funding
Lynn		Everett	Everett					East Boston	East Boston		East Boston		Chelsea		Service Location
Family Literacy, ABE, ESOL, HiSET/GED, Citizenship, Distance		Spanish native language literacy, ESOL, citizenship, legal services, translation, interpreting, and notary public	Computer, ESOL, volunteer opps		learning, citizenship, GED/HiSET	computer, ESOL, distance	literacy, basic math,	Spanish native language	Computer, ESOL, legal assistance in completing DACA applications, volunteer opps		ESOL, citizenship support, not classes, volunteer opps		Computer literacy in English and Spanish, ESOL, HISET/GED in Spanish	•	Services
Morning, evening/Open summers		Morning, evening, weekends/Open summers	Evening/Open summers				summers	Evening/Not open	Evening/Open summers		Morning, afternoon, evening, weekends/ Open summers		Evening/Not open summers	•	Schedule/ Open Summers?
Yes		No	N <sub>O</sub>					Yes	No		Z o		N <sub>O</sub>	•	Wait List
Not listed/No		Not listed/No	Wellington/No					Not Listed/No	Maverick/No		Not listed/No		Not listed/No		Access to Public Transport/ Support Provided?
Free		Varies by subject	Varies by subject					Free	Free		Varies by subject		Registration (\$25-\$40)		Cost
No		No	No					No	N <sub>o</sub>		Yes		Z o	•	Child Care
Spanish, Russian, Haitian Creole, Vietnamese		Spanish, Portuguese	Spanish, Portuguese, French				•	Spanish	Spanish, Portuguese		Spanish		Spanish		Staff Speak Other Languages?
16+; resident of Greater Lynn area		No eligibility requirements								advocacy	Latina women, immigration services, counseling, tenant education and		Chelsea residents primarily and surrounding cities		Comments





							Learning, Career planning			
Comments	Staff Speak Other Languages?	Child Care	Cost	Access to Public Transport/ Support Provided?	Wait List	Schedule/ Open Wait Summers? List	Services	Service Location	Funding	Agency

Network	Just a Start House	The Welcome Project	SCALE	SOMERVILLE	Technology Academy	Network	Immigrant Learning Center	BCl, Inc.	MALDEN	
Tuition and	Key source: private funding, donations	Housing Authority, donations	Key source: MA DESE, Somerville Public Schools, City funds	ᇤ	fees	<b>Tuition and</b>	MA DESE	Tuition and fees		
Somerville	Somerville	Somerville	Somerville			Malden	Malden	Malden		
Computer Information	Basic math, computer literacy, HiSET/GED, HiSET/GED in Spanish, job readiness, computer literacy, volunteer opps	Family literacy, ESOL, volunteer opps	Basic math, diploma completion, ESOL, HISET/GED, HISET/GED in Spanish, test center, volunteer opps		systems and Information Technology	Computer information	ESOL, Citizenship, Family Literacy, Volunteer opps, Educational and career advising available			Learning, Career planning
Morning,	Morning, afternoon/Open summers	Morning, evening	Morning, evening/No summer		evening/Open summers	Morning, afternoon	Morning, evening/ Open summers	Hospital Central Service Tech., Medical Asst., Medical Office Administrator		
No	No	No	Yes			No	Yes	No		
Davis Sq./No	Not direct/No	Not direct/No	Davis Sq./No			Malden Center/No	Malden Center/No	No/No		
Cost varies	Free	Varies by subject	Free		by course, financial aid available	Cost varies	Free	Varies by course and program		
No	N <sub>O</sub>	No	N <sub>O</sub>			N <sub>o</sub>	N <sub>o</sub>	No		
None indicated	Spanish, Romanian	Spanish	Spanish, Haitian Creole, French, Portuguese			No	None indicated	None indicated		
Eligible MA	Pregnant and/or parenting 14- 20 year olds	Residency in Somerville only for scholarships/ \$50	18+, MA resident, wait list for 18 months		Job Quest Training Provider - Section 30, ITA, Trade Vouchers	Eligible MA	Immigrant and refugees primarily	Job Quest Training Provider - Section 30, ITA, Trade Vouchers		

Key Adult Basic Education and Workforce Training Services - Metro Chelsea Area – June 2017 Edition



Technology fees	Agency
feec	Funding
	Service Location
Systems IT	Services
afternoon/Open	Schedule/ Open Wait Summers? List
	Wait List
	Access to Public Transport/ Support Provided?
hy course	Cost
	Child Care
	Staff Speak Other Languages?
loh Ouest	Comments

Vouchers										
ITA, Trade										
Section 30,										
Provider -										
Training										Institute
Job Quest			course				office asst., medical asst.		fees	Technical
licated Eligible MA	None indicated	No	Varies by	Not direct/No	No		Dental asst., medical	Tuition and Somerville	Tuition and	Lincoln
Vouchers										
ITA, Trade										
Section 30										
Provider -			available							
Training			financial aid			summers				Academy
Job Quest			by course,			afternoon/Open	Systems, IT		fees	Technology fees





### Chelsea Adult Basic Education/Workforce Development Action Plan Interim Report

### Overview

The National College Transition Network (NCTN) at World Education, Inc. was contracted by the City of Chelsea and its community partners to study and report on local/regional adult educational services and gaps in those services relative to local labor market needs. This interim report summarizes the key accomplishments and activities related to this task as of January 31, 2017. The work commenced in September 2016 and will be completed by May 1, 2017. (There was a pre-launch meeting with the advisory group in August.) The initial time frame indicated that the project would be completed in February 2017. It became clear that the Advisory Group needed additional time to establish criteria, and to more fully consider additional labor market information. Given the importance of the Advisory Group, the number of planned meetings was increased from three to five. A revised timeline is included in this report.

### **Key Actions of Advisory Group via NCTN Staff Facilitation**

- Developed a collaborative working group.
- Established a common understanding of career pathways through NCTN's sharing of research on career pathway models.
- Analyzed information the NCTN team collected from Advisory Group members and home organizations to inform the selection of career pathway selection, target wage, and criteria for pathway selection.
- Selected three pathways for further investigation: Advanced Manufacturing, Construction and Property Management, and Healthcare.
- Agreed that the entry point of the chosen pathways is the first point on a career pathway (e.g., ABE, TANF, ESOL, Workforce participants), and that the target wage for the first exit point would be \$17/hour -\$35,000 annual wage).

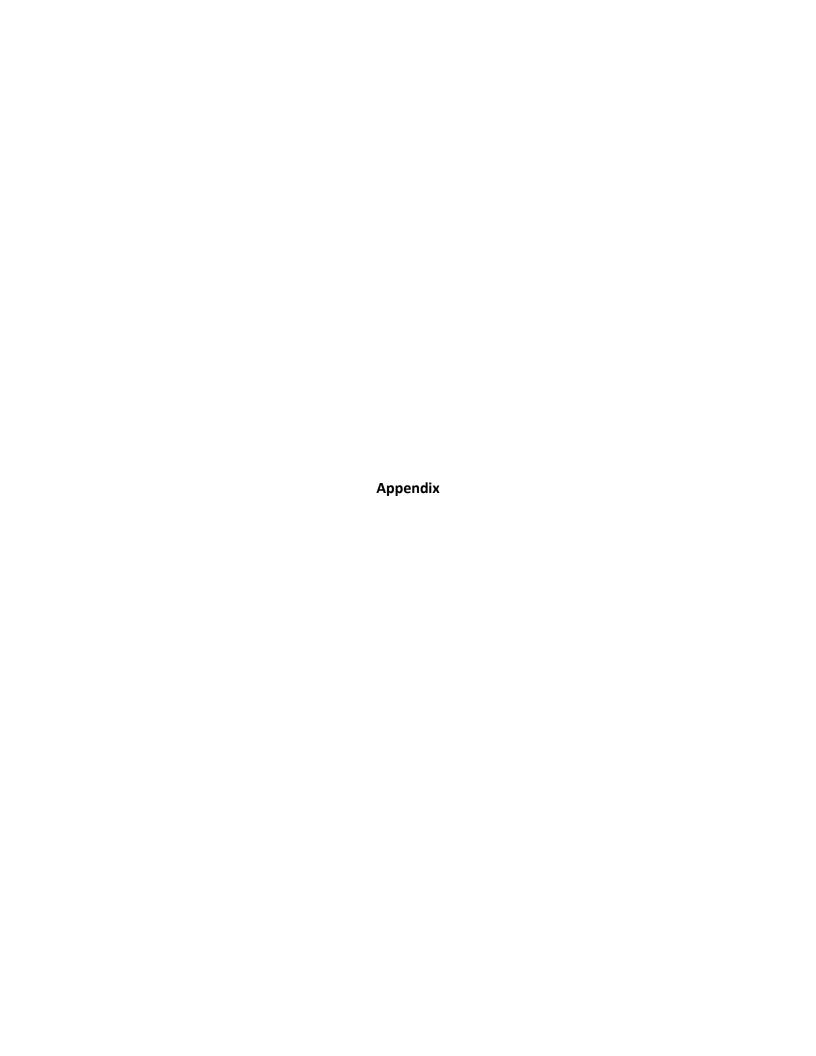
The appendix of this report includes the summary of actions from the three 2016 advisory group meetings (August 5, September 19 and November 10). A summary of activities follows:

Activities	Actions
August 5, 2016 Advisory Group (AG) Pre- Launch Meeting.	Confirmed AG's role, listed potential career pathways to consider, and reviewed SOW.
September 19, 2016 Meeting	Determined job wage criteria, articulated factors for assessing program quality and robustness, established criteria for industry paths labor market, confirmed entry point of pathway, reviewed career pathway models, identified 5 potential fields (i.e., Retail, Healthcare, Advanced Manufacturing, Construction & Property Management, and Information Technology), and agreed to select 3 pathways from these fields on 11/10/16.
Interviewed Metro-North sector specialists to collect career pathway information in 5 fields listed at 9/19/16 meeting. This data informed the decision-making process at the 11/10/16 meeting.	See 11/10/16 PPT deck for data summary.
November 10, 2016 Virtual Meeting	Selected 3 pathways for further investigation: Healthcare, Adv. Manufacturing, and Construction & Building Management
Generating an expanded ABE/WFD inventory for the 3 selected pathways.	Ongoing
Interviewing employers and/or training specialists to determine the current training services and needs regarding the 3 pathways. See Chelsea Career Pathways Information Template in report's appendix for data collection categories.	Ongoing .
Researching best practices, strategies and models.	Ongoing

## Chelsea ABE/Workforce Development Action Plan Timeline

Revised Period of Performance: September 2016 – May 1, 2017

•								Deliverable #3: Recommendations for final Action Plan
			•					Deliverable #2: Recommendations for Action Plan Priorities
	•							9. Convene stakeholder focus group for input on gap assessment and initial recommendations.
•	•	•			•		•	8. Recommend how local community can apply learnings in Chelsea.
		•						Deliverable #1: Interim report that summarizes the data collection
	•	•	•	•	•	•	•	7. Research best practices, strategies, and models.
	•	•						6. Identify gaps in ABE/ training, and services and related challenges.
	•	•	•					5. Assess programs' quality (persistence, completion, entries to further ed., training or jobs) and robustness (employment & support services, intensity, pathways, articulation agreements), timeline to career.
	•	•	•					4. Assess programs' accessibility: location, public transportation, schedule, eligibility requirements.
					•	•		3. Analyze skill requirements for living wage jobs for 3 high-demand, accessible career sectors in greater Chelsea.
•	•				•		•	2. Meet with Action Plan Advisory Group to 1) determine catchment area, accessibility factors, how program quality and robustness should be assessed, identify community stakeholders; 2) help select 3 career sectors; 3) present interim report; 4) discuss action plan priorities; 5) present recommendations for Action Plan.
								1. Hold pre-launch orientation meeting (August) to review SOW, confirm goal, and clarify roles.
∞	7	6	5	4	3	2	1	Tasks
			ths	Months				



### Chelsea ABE/Workforce Action Plan

Advisory Group Pre-launch Meeting 8/5/16

### Agenda

Welcome and Introductions
Goal of Action Plan
Role of Advisory Group
Role of the NCTN/WEI
Feedback on Approach and Timeline
Coordination and Information Sharing About Other Related Initiatives
Wrap-up/Next Steps

### Present

Kimberly Napier (Metro North REB), Darrell Lemar (Bunker Hill CC - Workforce), Toni Borge (Bunker Hill CC – ABE), Barbara Krol-Sinclair (Chelsea Public Schools), Linda Rohrer (Career Source), Stefanie Shul (Connect), Sandy Goodman (NCTN/WEI), and Ellen Hewett (NCTN/WEI)

### **Key Actions**

- Explored Gaming and Hospitality, Information Technology, Financial Services,
   Construction and Property Management, Retail, and Health Care as potential sectors to
   explore. Narrowed down selection to Gaming and Hospitality, Information Technology,
   and Health care. The NCTN team will provide more information about these areas for
   the September meeting.
- Indicated importance that this work be informed by regional planning data.
- Agreed that this Advisory Group can eventually be the group to coordinate ABE grant efforts.

### Chelsea ABE/Workforce Action Plan

Advisory Group Meeting 9/19/16 Notes

### **Present**

Darrell Lemar (Bunker HillCC - Workforce), Toni Borge (Bunker Hill CC – ABE Dept.), Barbara Krol-Sinclair (Chelsea Public Schools), Linda Rohrer (Career Source), Stefanie Shul (Connect), Sandy Goodman (NCTN/WEI), and Ellen Hewett (NCTN/WEI)

### **Confirming Assumptions/Consensus**

- The target audience, that is the starting point for the pathway, is low-income adults, English Language Learners, and adults without a high school credential.
- The targeted occupations are those that are attainable to residents with a high school these three general industries indicated more research diploma and 6 months-to-2 years of postsecondary education and training or on the job training.
- Our work is to study and report on the local/regional adult education and training services and gaps in those services relative to local labor market needs and opportunities and propose an action plan for bridging the gaps.

### **Determining Quality Job Criteria**

We will analyze the skill requirements for three targeted occupations, selected based on the following criteria, to be finalized in consultation with the Action Plan Advisory Group.

- High rate of growth and number of openings projected over 10-year period.
- Minimum entry wage meets living wage standard established for Chelsea. The <u>MIT</u>
   <u>Living Wage Calculator</u> provides a range of wages, based on family size and location

\$13.50 is the wage for an individual without dependents in Suffolk County. \$26.75 is the wage for a family of 2 adults and 2 children, where one adult is employed \* \$17.00 is the wage for a family of 2 adults and 2 children, where both adults are employed.

- Agreed that the target wage will be \$17/hour (\$35,000/yearw).
- Positions are attainable to residents with a high school diploma and 6 months-to-2 years
  of postsecondary education and training or on the job training.
- Other issues to consider in establishing criteria:
  - location and accessibility of employers
  - restricting or prohibiting factors (e,g, requires a car and license, clear CORI, drug and alcohol screens)
  - challenges to attainment for English Language Learners
  - challenges for undocumented residents.

<sup>\*</sup>Connect uses this for the living wage.

### **Identifying 3 Occupational Pathways to Research**

Shared the following chart. At the August meeting we decided that more research into Health Care, Construction and Building Trades, and Gaming and Hospitality is needed.

Industry	Growth	Wages
	2012-2022	(2014 Mean )
Health Care and Social	21.7%	\$27.75
Assistance		
Hospitals	15.3%	\$31.00
Nursing and Residential	20.10%	\$18.00
Care Facilities		
Construction	31.40%	\$33.63
Specialty Trade	30.10%	\$32.23
Contractors		
Amusement, Gambling,	27.8%	\$17.70
Recreation		

Following a dynamic discussion, the group agreed that more clarity regarding the divergent information is needed. The NCTN team will provide this for the Retail, Healthcare, Advanced Manufacturing, Information Technology, and Construction and Property Management sectors at the November 10 meeting.

### **Assessing Program Quality and Robustness**

What are the factors to consider?

- Accessibility
- Job placement record
- Industrial recognized credentials
- Adult friendly
- Hands-on
- Up-to-date with industry standards
- Connection to employers

### **Chelsea ABE/Workforce Action Plan**

Advisory Group Meeting 11/10/16

### **Present**

Kimberly Napier (Metro North REB), Darrell Lemar (Bunker HillCC - Workforce), Toni Borge (Bunker Hill CC – ABE Dept.), Barbara Krol-Sinclair (Chelsea Public Schools, Stefanie Shul (Connect), Sandy Goodman (NCTN/WEI), and Ellen Hewett (NCTN/WEI)

### **Key Actions**

See accompanying ppt. for summary of data presented at the meeting. The slides provide reasons to select (+) and reasons not to select (-)a given pathway based on interviews and LMI data.

After thoughtful deliberation, the Advisory Group selected 3 pathways for further investigation: Construction and Property Maintenance, Healthcare, and Advanced Manufacturing.

### **Chelsea Career Pathway Information Template**

Title of Targeted entry- and mid-level occupation(s)

### LMI

Projected growth in state and region Projected # of openings in state and region Wages

### **Requirements**

Education, training, certifications
Skills
Aptitudes
Interests
Physical abilities

### Education and Training available locally (including ABE, skills training, bridge training)

Alignment with industry needs
Lead to HSE and a PSE credential
Enable entering occupation
Include support services
Implemented through partnerships across systems

### Accessibility of training and jobs

Waiting lists
Transportation
Scheduling
Academic Skill requirements
English language level requirements

### Analysis of Quality (using WIOA Elements and MA ACP Guidelines as standards)

- Aligns with local industry needs
- Leads to the attainment of a high school equivalency and at least one postsecondary credential, Enables a participant to enter or advance within a specific occupation or cluster
- Includes, as appropriate, education offered concurrently with and in the same context as workforce preparation activities and training
- Organizes education, training, and other services to meet the particular needs of an individual in a manner that accelerates the educational and career
- Counseling and supportive services can be leveraged to help participants reach their goals
- Partnerships across education and workforce systems in place

### Applicable Models (local and nationwide)

# Chelsea ABE/WFD Advisory Group

November 10, 2016 Meeting Goal:

Select three pathways to investigate further.

Underlying Assumptions

- Results of pathway investigation will inform the action plan.
- Investigation of the pathways includes identifying education and training services as well as gaps in services to prepare residents for the pathways
- Advisor Group members and home organizations have action plan expertise, contacts, and foundational research to tap for the





## Pathways to Consider

- •Retail
- Health Care
- Advanced Manufacturing
- Information Technology
- Construction and Property Management

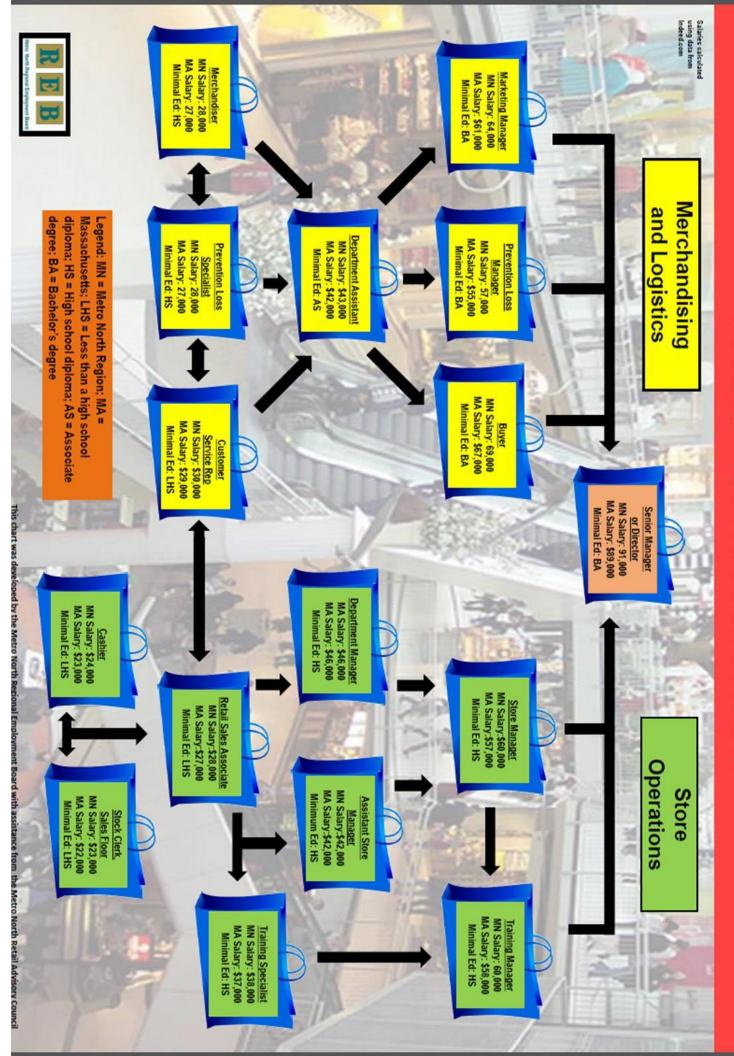


### Retail

- Minimal entry requirements = HS
- Opportunities for advancement in store operations.
- More retention and advancement w/in some companies.
- REB employer contacts

- Entry-level jobs unattractive
- High turnover rate
- Limited opportunities for advancement
- Takes 2 steps up the ladder to reach target

## RETAIL CAREER PATHWAY



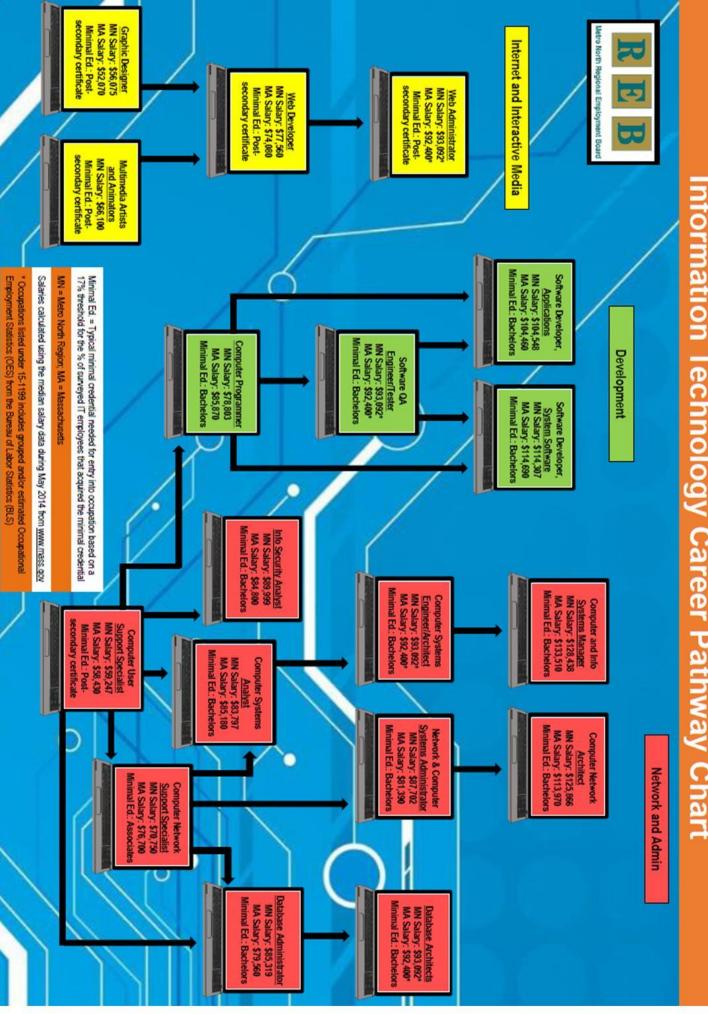


- Entry-level meets the \$\$ mark
- REB plans to explore further.
- Opportunity to build bridges- Microsoft Certs?
- Opportunities lie in the many businesses using IT



- Staffing agencies typical hiring vehicle
- Lots of legwork to find the right fit companies
- Hard to find right people w/ right skills & interest
- Some PSE required
- Entry-level a reach w/out defined bridges.

# Information Technology Career Pathway Chart



## Advanced Manufacturing



- Entry-level meets the \$\$ mark
- Minimal education = HS
- NEMAC very well developed
- Strategy testing math remediation course launching.

- Math, math, math
- Stigma to overcome
- Hard to find right people w/ right skills & interest
- Few NEMAC employers in Chelsea area or Taccess

## Advanced Manufacturing Career Pathways









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## Industrial Production

MN Salary: \$113,114 Manager

Typical Ed: Bachelor's MA Salary: \$102,300

> Mechanical Engineer MN Salary: \$89,922

MA Salary: \$87,790

Typical Ed: Bachelor's

### Mechunical

Technologis Engineering

MN Salary: \$65,204

MA Salary: \$69,330 Typical Ed: Some

MA Salary: \$92,480

Typical Ed:

Bachelor's

MN Salary: \$94,740

<u>Industrial Engineer</u>

Col ege

### **CNC Machine**

Programmer

MA Salary: \$50,860 MN Salary: \$61,097

MA Salary: \$55,930

Typical Ed: Some

MN Salary: \$60,459

**Technician** 

ndustrial Enginee

Typical Ed: High School

### **CNC Machine**

Operator

MA Salary: \$43,450 MN Salary: \$48,717 Typical Ed: High

School

### Mechatronics

Engineer

MA Salary: \$106,870 MN Salary: \$115,578

Typical Ed:

Bachelor's

## Materials Engineer MN Salary: \$85,997

MA Salary: \$90,990 Typical Ed:

Bachelor's

### Manutacturing

Technologist Engineer

MA Salary: \$69,330 MN Salary: \$65,204

Typical Ed: Some

Manuia :uring

**Production** 

MA Salary: \$69,330 MN Salary: \$65,204 Technician

Typical Ed: Some

Eee Shic

Equipment

MN Salary: \$34,511 **Assembler** 

MA Salary: \$36,300 Typical Ed: High School

Electronics Engineer MN Salary: \$100,726

MA Salary: \$100,290

Bachelor's Typical Ed:

MA Salary: \$103,090 MN Salary: \$99,933 Electrical Engineer

Typical Ed: Bachelor's

Engineering **Electionics** 

MA Salary: \$65,260 MN Salary: \$69,890 Typical Ed: Some Technician

College

of May 2015 Metro North and MA as are median salaries for Note: Salaries shown

# Construction & Property Maintenance



- Entry-level meets the \$\$ mark
- Minimal education to enter
- CONNECT laying groundwork
- REB identified as a targeted industry
- Entry level skills same for Con. & Prop. Maintenance

- From laborer to skilled trade or management requires much more training.
- .Specific physical abilities, skills, interests required.
- REB does not have LMI.
   Expect research completion by 6/30/17

## Healthcare



- Minimal education to enter
- Medical secretary, entry level, meets \$\$ mark
- Direct care second level (EMT, Med. Asst.) meets \$\$ mark
- Strong opportunities for PCA, HHA and EMT.
- Uptick in need for med. sec. and med. assist.

Direct care entry level does not meet \$\$ mark

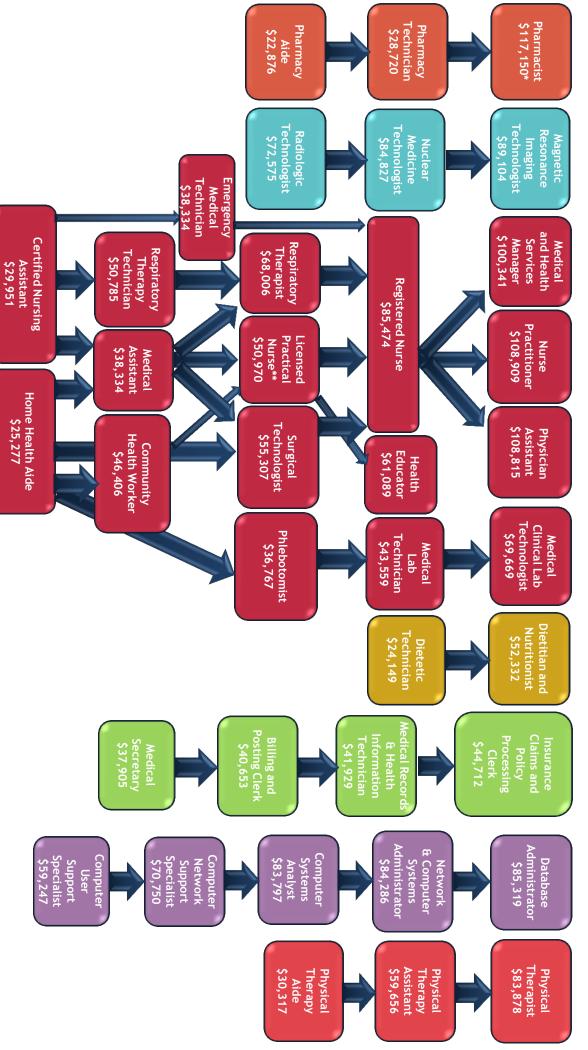
Pathway already receives lots of attention

High turnover of HHAs



Metro North Regional Employment Board

## Metro North Healthcare Career Pathways



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\*\* LPNs are generally not hired at area hospitals

<sup>\*</sup>Median Wage data from Occupational Employment and Wage Statistics Survey, Metro North Workforce Investment Area, Bureau of Labor Statistics May 2014