

Advanced Manufacturing

Local Career Pathway Implementation
Certification Process
Northeast NC Career Pathways

Northeastern NC Career Pathways

Local Advanced Manufacturing Career Pathway Implementation Certification

In November 2016 the Northeastern Regional Advanced Manufacturing Career Pathway was officially certified by the NCWorks Commission. This pathway meets the state's rigorous eight best practice criteria including collaboration among education, workforce development and industry partners; employer engagement at the highest levels, work-based learning opportunities for pathway enrollees; and comprehensive career awareness and development activities.

What happens next?

The Northeastern Career Pathway model is a two-level process. The first level of work addresses the pathway development criteria from a regional stakeholder perspective. Employer identified skills and competencies required for specific advanced manufacturing careers is the focus of this work. A strategic planning committee consisting of employers, educators, workforce development staff and other stakeholders develop the sequence of courses and learning experiences that span middle school through post-secondary education that lead to the acquisition of the identified skills and competencies needed for advanced manufacturing career success. An advantage of this regional approach, especially for large rural areas like ours, is that it broadens the participation and input across all of the stakeholder groups, and raises the bar for creating and sustaining high quality, comprehensive pathways. The success of this effort by the Northeast is evidenced in meeting the standards of the NCWorks Certification process.

In the second level of the career pathway process, the focus moves from regional pathway development to **local pathway implementation**. This process is guided by the formation of **local teams** consisting of representatives from the local community college, workforce development board, K-12 education agencies (LEAs) and local advanced manufacturing employers working together to 1) modify the regional pathway to meet local needs, and 2) develop and execute an implementation plan that aligns with the regional strategies resulting in increasing the number of youth and adults who become advanced manufacturing pathway completers with the skills and competencies needed to enjoy successful careers and meet employer expectations.

The Northeastern Local Advanced Manufacturing Career Pathway Implementation Certification (LHCCPIC) is designed to recognize local partnerships that not only develop but also **implement** high quality advanced manufacturing pathways. Each entity of the local partnership (LEA/high school/community college/workforce development board) upon successfully meeting the criteria established by the Northeastern NC Career Pathways partnership will be awarded a framed dual certification in recognition for meeting both the criteria of the NCWorks Pathway Certification Program and the Local Northeastern NC Career Pathways Implementation Certification Program.

Northeastern NC Career Pathways
Advanced Manufacturing Career Pathway
Local Implementation Certification Program

Community College: [College of the Albemarle](#) WDB: [Northeastern WDB](#)

(add lines for additional LEAs as needed)

LEA: [Currituck](#) High Schools: [Currituck HS](#)

LEA: [Dare](#) High Schools: Cape [Hatteras Secondary](#), [First Flight HS](#), [Manteo HS](#)

LEA: [Edenton-Chowan](#) High Schools: [John A. Holmes HS](#)

LEA: [Elizabeth City – Pasquotank](#) High Schools: [Northeastern HS](#), [Pasquotank HS](#)

LEA: [Perquimans](#) High Schools: [Perquimans County High School](#)

Lead Contact: [Dave Whitmer](#) Email dwhitmer@accog.org

Position/Organization: [Director, NWDB](#) Phone: [252-426-5753 ext. 231](#)

To be considered for the first round of implementation certifications, this completed application plus attachments must be submitted to the email address below (to be determined) in one PDF file by the end of business on **February 28, 2017**.



THE FOLLOWING SECTION IS FOR EVALUATOR USE ONLY

Criteria	K-12 (CTE) Met/Not Met (for evaluator use only)	Community College/ University Met/Not Met (for evaluator use only)	Workforce Development Board Met/Not Met (for evaluator use only)
1. Local Partnership Team Members			
2. Modified Local Pathways (Sequence of offerings)			
3. Collaboration			
4. Work-based Learning			
5. Career Awareness			
6. Adult Learner Focus			
7. Evaluation			

Overall readiness
Final Determination:
Approved _____ Approved with revision _____ Not approved _____

Comments (for evaluator use only):

1. Local Partnership Team Members
K-12 _____
CC/U _____
WD _____

2. Modified Local Pathways (Sequence of Offerings)
K-12 _____
CC/U _____

3. Collaboration

K-12 _____

CC/U _____

WD _____

4. Work-based learning

K-12 _____

CC/U _____

WD _____

5. Career Awareness

K-12 _____

CC/U _____

WD _____

6. Adult Learner Focus

CC/U _____

WD _____

7. Evaluation

K-12 _____

CC/U _____

WD _____

Northeastern NC Career Pathways

Advanced Manufacturing Career Pathway Implementation Certification Criteria

1. **Local Partnership Team Members** - List the team members that participated in the development of the advanced manufacturing pathway(s) implementation plan. Team members may be attached with representations clearly delineated. At a minimum, the team must consist of the following –

a. _____ at least two **community college representatives** who are stakeholders in the implementation of the advanced manufacturing career pathway(s)

Name and position at the college

1. [Evonne Carter, VP of Learning, COA](#)
2. [Michelle Waters, Dean, COA](#)
3. [Robin Zinsmeister, Dean, COA](#)

List additional community college team members

b. _____ at least one **LEA representative** from each of the LEAs in the local partnership

Name, LEA and position

1. [Jean Taylor, CTE Director, Dare](#)
2. [Don Monroe, CTE Director, Currituck](#)
3. [Rhonda James Davis, CTE Director, Elizabeth City Pasquotank](#)
4. [Beverly Harrison, IMC/CDC/SPC, Edenton-Chowan](#)
5. [Jill Cohen, CTE Director, Perquimans](#)

List additional LEA team members

c. _____ at least one representative from the local **workforce development board** or NCWorks Career Center

Name and position

1. [Dave Whitmer, Director, NWDB](#)
2. [Emily Nicholson, Business Services Rep., NWDB](#)

List additional WDB team members

d. _____ at least one **advanced manufacturing employer**

Name, advanced manufacturing provider, position

1. [Tim Askew, Chemical Rep., Enviroserve Chemicals](#)
2. [Jason Futrell, Mechanical Production Supervisor, Hoffer Flow Controls](#)
3. [Joe Gopi, Manufacturing Mgr., Sumitomo Drive Technologies](#)
4. [R. Patrick Stephan, Welding Supervisor, Sumitomo Drive Technologies](#)
5. [Mike Villardi, VP Manufacturing, Hockmeyer Equipment](#)
6. [Steve Price, Sales Engineer, Haas Factory Outlet](#)
7. [Suzanne Sanders, General Manager, Motion Sensors](#)

List additional advanced manufacturing employer team members

e. _____ **Additional Team Members** (optional)

1. [Nannette Turner-Williams, NCWorks Career Center Manager](#)
2. [Latoria Roundtree, Career Advisor/CP Champion, NCWorks](#)

2. Modified Local Pathway(s) - Attach modified local pathway(s) that include at a minimum the following elements of the regional advanced manufacturing pathway(s). Elements must be specific and reflect the involvement of all entities.

[Please see attached Pathways](#)

_____ sequence of courses and learning experiences that begin in high school and continue through post-secondary that result in earned stackable certifications, diplomas and degrees.

_____ work-based learning experiences

_____ sequenced career counseling experiences

_____ Career and College Promise Courses

_____ stackable credentials

_____ graphic and/or narrative that explains pathway entry options for adult learners

3. Collaboration - Date(s) of meetings with all partnering entities present to gather input and develop/finalize local pathways, and implementation plans (minimum of one face-to-face meeting required). Documentation of collaboration, i.e. agenda(s), sign-in sheets is required.

Provide meeting documentation below (expand this section to include additional meetings). Documentation may be attached. Team member representations must be clearly defined.

Meeting Date [May 25, 2017](#) Location [College of the Albemarle, Elizabeth City](#)

List Names of Team Members Present

Community College – [Please see sign-in sheet](#)

LEAs – [Please see sign-in sheet](#)

Workforce Development Bds. – [Please see sign-in sheet](#)

Advanced Manufacturing Employers – [Please see sign-in sheet](#)

Others (list agency/position) -- [Please see sign-in sheet](#)

4. Work-based Learning - On the regionally developed attached document “**Continuum of Key Work-Based Learning Components**” recruit and list local employers who will commit to one or more of the work-based experiences listed. **The minimum requirement for this criteria is at least five employers within the local partnership will commit to provide work-based learning opportunities in one or more of the components designated with an “*”.** Each LEA in the partnership will be responsible for recruiting at least one employer in

meeting the required five employer minimum. You may use the attached continuum (or a chart created by the team) to list employer names, contact information, and approximate number of students affected by experience.

Please see attached

_____ self-check indicates minimum criteria has been met

5.1 Career Awareness – Using the regionally developed “**Comprehensive Career Guidance and Counseling Planning Tools (Grades 6 – Adult)**” updated November 2015 as a guide, and the career counseling planning forms attached, design a local implementation plan for a balanced comprehensive middle school through adult career guidance system. Please specify grade levels, classes, or other means of delivery to explain the comprehensiveness of the plan.

Please see attached

_____ self-check indicates minimum criteria has been met

5.2 Certified Pathway Career Awareness – Each of the local educational and training partners will document at least one advanced manufacturing career awareness activity that was implemented over the past twelve months.

Please see attached

_____ LEA and/or school, describe advanced manufacturing career awareness activity or activities –

_____ Community College, describe advanced manufacturing career awareness activity or activities –

_____ WDB, describe advanced manufacturing career activity or activities-

6. Adult Learner Focus – (a WDB led implementation initiative focused on unemployed, underemployed and incumbent workers)

A Career Pathways toolkit has been created and is currently being used to train Career Advisors throughout the region (the first three pages of the toolkit have been attached – we would be glad to provide the entire toolkit if desired). Two Career Advisors for NCWorks Career Centers have been identified as “Career Pathways Champions”. Their responsibilities includes learning the “in’s and out’s” of Career Pathways and keeping all Career Center staff up to date. They are also responsibly for being “liaisons” between or Center, Community

Colleges, Schools Systems, and local employers. A marketing flyer (please see attached) has been created in several version and is currently being distributed by the Career Pathway Champions to all Career Centers, Community College, and High Schools.

check when each of the following indicators has been met

all of the NCWorks Center counselors and advisors have been trained in the Northeast regional approach to career pathways

targeted marketing materials that feature local advanced manufacturing careers and educational opportunities have been developed and are being used in the counseling/advising process (attach samples of the marketing materials)

a pathway has been developed and published in collaboration with the community college partners specifically for adult learners that clearly lays out pathway entry options and directions for 1) enrolling in NCWorks Online, 2) how to contact the local NCWorks Center for additional services and 3) setting up a CFNC account.

7. Evaluation – The LEAs, Community College and Workforce Development Board agree to track and turn in the advanced manufacturing metrics data sets (first collected in 2013-14) as prescribed by the regional pathway partnership

Check indicates the agreement to provide the prescribed data

LEAs

Community College

WDB

Each team member agrees to provide Advanced Manufacturing Pathway metrics as prescribed by the NE Career Pathways Leadership Council.

Criteria # 2

modified Local Pathways



COLLEGE OF THE ALBEMARLE
Transform Your Tomorrow

HVAC Technologies

D35100 and C35100 I and II
Adult Career Pathway Plan of Study

Air Conditioning, Heating and Refrigeration (HVAC) Technology program will give you the skills needed to work with residential and light commercial systems, as well as assist in the start-up, preventive maintenance, service, repair, and installation of residential and light commercial systems. Upon completion of this concentration, graduates will be able to assist in the startup, preventive maintenance, service, repair, and/or installation of residential and light commercial systems.

Median Pay :\$19.81 per hour *NWDB - Economic Modeling Specialists, Inc.

	6-8 th Grade	9 th Grade	10 th Grade	11 th Grade	12 th Grade	COA Year 1
High School Academics	English	English I	English II	English III	ENG IV	Fall Semester AHR 111* AHR 111* AHR 112 AHR 113* ENG 102 CIS 111
	Math	Math I	Math II	Math III	Math IV	
	Science	Earth Science	Biology	Chemistry		
AHS	Social Studies	World History	Civics	Amer. History I & II		Spring Semester AHR 114* AHR 130 AHR 213 AHR 160 AHR 255 COM 101 WBL 110 or 111
	Hlth/PE	Hlth/PE				
COA CTE Courses				AHR 110 AHR 111 AHR 113 AHR 114	AHR 110 AHR 111 AHR 113 AHR 114	
Career Counseling and Advisement	ACT Explore	NC Career Cluster Guide Activities	ACT Plan	ACT College Readiness Assessment	ACT Workplace Readiness Assessment (WorkKeys)	COA Work Based Learning COA Resume Writing Assistance NC Works Career Center Services - www.ncworks.gov CRC
WBL Opportunities & Career and Technical Student Organizations		Classroom Speaker Field Trip Participate in Student Organization	Classroom Speaker Participate in Student Organization	Classroom Speaker Field Trip to Local Industry Participate in Student Organization	Internship or Senior Project Participate in Student Organization	*HVAC Technology dual enrollment students have the opportunity to complete coursework in the program while in high school.

*COA program curriculum courses required can change over time – be sure to check the current college catalog for the most updated information.



COMPUTER INTEGRATED MACHINING

D50210 and C50210 I and II

Adult Career Pathway Plan of Study

The Computer Integrated Machining curriculum is designed to develop skills in the theory and safe use of hand tools, power machinery, computerized equipment, and sophisticated precision inspection instruments. Students learn to interpret blueprints, setup manual and CNC machines, perform basic and advanced machining operations, and make decisions to insure that work quality is maintained. Upon completion of this concentration, graduates will be able to qualify for employment opportunities for machining technicians exist in manufacturing industries, public institutions, governmental agencies, and in a wide range of specialty machining job shops.
Median Pay : **\$22.20 per hour** *NWDB - Economic Modeling Specialists, Inc.

	6-8 th Grade	9 th Grade	10 th Grade	11 th Grade	12 th Grade	COA Year 1	COA Year 1
High School Academics	English	English I	English II	English III	ENG IV	COA Year 1 Fall Semester MAC 111 MAC 131 MAC 151 MAC 121 MAC 171 and MAC 172 COM 101	Summer Semester MAC 113
	Math	Math I	Math II	Math III	Math IV		
	Science	Earth Science	Biology	Chemistry			
	Social Studies	World History	Civics	Amer. History I & II			
	Hlth/PE	Hlth/PE					
AHS				AHS Orientation Student Success Class Math Reading *Students enrolled in local Early Colleges are eligible to take the entire diploma program while in HS.	HSE Orientation Student Success Class Math Reading	Spring Semester MAC 112 MAC 122 MAC 124 MAC 132 MEC 110 MAT 110 WBL 110 or 111	
COA CTE Courses							
Career Counseling and Advisement	ACT Explore	NC Career Cluster Guide Activities	ACT Plan	ACT College Readiness Assessment	ACT Workplace Readiness Assessment (WorkKeys)	COA Work Based Learning COA Resume Writing Assistance NC Works Career Center Services - www.ncworks.gov CRC	
WBL Opportunities & Career and Technical Student Organizations		Classroom Speaker Field Trip Participate in Student Organization	Classroom Speaker Participate in Student Organization	Classroom Speaker Field Trip to Local Industry Participate in Student Organization	Internship or Senior Project Participate in Student Organization	Computer Integrated Machining *dual enrollment students have the opportunity to complete coursework in the program while in high school. *Early College Students	

*COA program curriculum courses required can change over time – be sure to check the current college catalog for the most updated information.



WELDING TECHNOLOGY

D50420 and C504201

Career CCP/CTE Pathway Plan of Study

College of The Albemarle's (COA) Welding Technology program will give you a sound understanding of the science, technology and applications essential for successful employment in the welding and metal industries through classroom training and practical application in the lab setting. Employment opportunities include entry-level technician, sales and quality control positions in metalworking, construction, manufacturing and fabrication.

Median Pay : \$21.77 per hour US Department of Labor - Welders

	6-8 th Grade	9 th Grade	10 th Grade	11 th Grade	12 th Grade	
High School Academics	English	English I	English II	English III	ENG IV	COA Diploma Fall Semester WLD 110 (Welding) * WLD 112 (Welding) WLD 115 (Welding) * WLD 121 (Welding) * COM 101 (Communications) BPR 111 (Blue Print Reading)
	Math	Math I	Math II	Math III		
	Science	Earth Science	Biology	Chemistry		
	Social Studies	World History	Civics	Amer. History		
	HiTh/PE	HiTh/PE				
AHS				AHS Orientation Student Success Class Math Reading	HSE Orientation Student Success Class Math Reading	Spring Semester WLD 116 (Welding) WLD 122 (Welding) WLD 131 (Welding) * ELC 220 (Electrical) * MAT 110 (Math) WBL 110 or 111 (Work Based Learning)
	COA CTE Courses			WLD 110 WLD 115 WLD 121 WLD 131 WLD 141	WLD 110 WLD 115 WLD 121 WLD 131 WLD 141	
Career Counseling and Advisement	ACT Explore	NC Career Cluster Guide Activities	ACT Plan	ACT College Readiness Assessment	ACT Workplace Readiness Assessment (WorkKeys)	Summer Semester WLD 132 (Welding) WLD 141 (Welding) * Unless taken in High School
WBL Opportunities & Career and Technical Student Organizations		Classroom Speaker Field Trip Participate in Student Organization	Classroom Speaker Participate in Student Organization	Classroom Speaker Field Trip to Local Industry Participate in Student Organization	Internship or Senior Project Participate in Student Organization	COA Monthly HSWP Admission Info Sessions (in person or Online) COA Work Based Learning COA Resume Writing Assistance College Transfer Advisement NC Works Career Center Services www.ncworks.gov CRC

*COA program curriculum courses required can change over time – be sure to check the current college catalog for the most updated information.



COLLEGE OF
ALBEMARLE
Transform Your Tomorrow

Computer Aided Drafting and Design

A50150, D50150 and C50150

Adult Career Pathway Plan of Study

This curriculum prepares the students to apply technical skills and advanced computer software and hardware to develop plans and related documentation, and manage the hardware and software of a CAD system. Includes instruction in architectural drafting, computer-assisted drafting and design (CADD), creating and managing two and three-dimensional models, linking CAD documents to other software applications and operating systems. Upon completion of this concentration, graduates will be able to qualify for CAD jobs in architectural and engineering consulting firms and industrial design businesses.

Median Pay : **\$25.52 per hour** *NWDB - Economic Modeling Specialists, Inc.

	6-8th Grade	9th Grade	10th Grade	11th Grade	12th Grade	COA Year 1		COA Year 2
	English Math Science Social Studies	English I Math I Earth Science World History	English II Math II Biology Civics	English III Math III Chemistry Amer. History I & II	English IV Math IV	Fall Semester	Spring Semester	Fall Semester
AHS	HiTh/PE	HiTh/PE						
COA CTE Courses				ISC 110 ARC 111 DFT 151 SST110 DFT 152 DFT 154 ENG 111	DFT 153 DFT 254 ISC 130 DFT 259 DFT 189 PHI 240	DFT 152* DFT 154* ARC 112 ARC 113 MAT 110 OR 171 ENG 111* OR COM 120	ISC 130* ARC 212 DFT 259* WBL 110 OR 111 DFT 189* PSY 150	
Career Counseling and Advisement	ACT Explore	NC Career Cluster Guide Activities	ACT Plan	ACT College Readiness Assessment	ACT Workplace Readiness Assessment (WorkKeys)	COA Work Based Learning COA Resume Writing Assistance NC Works Career Center Services - www.ncworks.gov CRC		
WBL Opportunities & Career and Technical Student Organizations	Classroom Speaker Field Trip Participate in Student Organization	Classroom Speaker Field Trip Participate in Student Organization	Classroom Speaker Participate in Student Organization	Classroom Speaker Field Trip Participate in Student Organization	Internship or Senior Project Participate in Student Organization	*Computer Aided Drafting dual enrollment students have the opportunity to complete coursework in the program while in high school. +Articulation Credit may be awarded to students who took select high school courses and earned a B or better and scored a 93 or better on a standardized CTE post assessment.		

*COA program curriculum courses required can change over time – be sure to check the current college catalog for the most updated information.



COLLEGE OF
ALESMARLE
Transform Your Tomorrow

Electrical Systems Technology

D35130 and C35130 I and II

Adult Career Pathway Plan of Study

The Electrical Systems Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical/electronic systems found in residential, commercial, and industrial facilities. Course work, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, electronics, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require. Upon completion of this concentration, graduates will be able to qualify for a variety of jobs in the electrical/electronics field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical/electronic systems.

Median Pay : **\$21.94 per hour** *NWDB - Economic Modeling Specialists, Inc.

	6-8 th Grade	9 th Grade	10 th Grade	11 th Grade	12 th Grade	COA Year 1
High School Academics	English	English I	English II	English III	ENG IV	Fall Semester ELC 112*+ ELC 113*+ ELC 118 ELC 125 ELC 230 COM 101 CIS 111
	Math	Math I	Math II	Math III	Math IV	
	Science	Earth Science	Biology	Chemistry		
	Social Studies	World History	Civics	Amer. History I & II		
	HItH/PE	HItH/PE				
AHS				AHS Orientation Student Success Class Math Reading	HSE Orientation Student Success Class Math Reading	Spring Semester ELC 114 ELC 117* ELC 128 ELC 220* MAT 110 OR ENG 102 OR ENG 111 WBL 110 or 111
COA CTE Courses				ELC 112 ELC 113 ELC 117 ELC 220	ELC 112 ELC 113 ELC 117 ELC 220	
Career Counseling and Advisement	ACT Explore	NC Career Cluster Guide Activities	ACT Plan	ACT College Readiness Assessment	ACT Workplace Readiness Assessment (WorkKeys)	COA Work Based Learning COA Resume Writing Assistance NC Works Career Center Services - www.ncworks.gov CRC
WBL Opportunities & Career and Technical Student Organizations		Classroom Speaker Field Trip Participate in Student Organization	Classroom Speaker Participate in Student Organization	Classroom Speaker Field Trip Participate in Student Organization	Internship or Senior Project Participate in Student Organization	*Electrical Systems Technology dual enrollment students have the opportunity to complete coursework in the program while in high school. +Articulation Credit may be awarded to students who took select high school courses and earned a B or better and scored a 93 or better on a standardized CTE post assessment.

*COA program curriculum courses required can change over time – be sure to check the current college catalog for the most updated information.



Dare County Schools

CareerClusters

PATHWAYS TO COLLEGE and CAREER READINESS

Manufacturing

Courses listed within this plan are recommendations only and should be individualized to meet each student's educational and career goals.
(24 credits needed for graduation)

Student Name _____
Grade _____ School Name _____

English		Math		Science		Social Studies		Other		Work Based Learning Experiences	
English I	Math I	Earth Science	World History	Health/PE	CTE Internships						
English II	Math II	Biology	American History 1811 **		Job Shadowing						
English III	Math III	Chemistry, Physics or Physical Science	Civics and Economics		Field Trips						
English IV	4th Math		** or AP US + 1 SS		Classroom Speakers						
University admissions require two world language credits - one being 2nd level Electives - Students choose from CTE Foundation & Enhancement; options below											
Complete a MINIMUM of 4 COURSES to earn a CTE Concentrator Status - ONE must be a STARRED * course.											
FOUNDATION COURSES - 3 required including ONE * course											
Approved CCP Courses *			Fashion Merchandising			Principles of Business & Finance			Drafting		
Entrepreneurship I ^			Marketing ^						Marketing		
ENHANCEMENT COURSES											
Career Management			Drafting I			Microsoft Word and PowerPoint ^			Personal Finance		
CTE Internship			Microsoft Excel & Access ^			Multimedia & Webpage Design					
CREDENTIALS											
Career Readiness Credential (WorkKeys)						Welding Credentials					
MIDDLE GRADES											
Career Counseling						ASVAB					
Exploring Career Decisions						Career Counseling					
Technological Systems						CFNC					
Technology Design & Innovation						Work-based Learning					
HIGH SCHOOL											
Community College Articulated Courses											
Drafting			DFT 111 or ARC 111			Marketing			MKT 120		
Microsoft Word & PowerPoint			CIS 111 or OST 136			Personal Finance			BUS 125		
Principles of Business & Finances			BUS 125								

For More Information, contact

- Your High School Career & Counseling Center
- www.nccommunitycolleges.edu/
- academic-programs/education-catalog
- CFNC.org





CAREER CLUSTER For Manufacturing

PATHWAYS

Manufacturing Production Process Development

●	MM51 Marketing ^																			
●	ME11 Entrepreneurship 1 ^																			
●	MI21 Fashion Merchandising																			
●	Approved CCP Courses																			

Career & College Promise

Approved Career & College Promise Career Technical Education Pathway

Additional Pathways

Health, Safety & Environmental Assurance Logistics & Inventory Control
Quality Assurance

Middle School Courses

BU10 Computer Skills and Applications CC58 Exploring Career Decisions
BU20 Exploring Business, Marketing and Entrepreneurship TED1 Technology Design & Innovation

Cluster Enhancement Courses

- BD10 Multimedia & Webpage Design
- BF05 Personal Finance
- BM10 Microsoft Word & PowerPoint ^
- BM20 Microsoft Excel and Access ^
- CC45 Career Management
- CS97 CTE Internship
- IC61 Drafting I

^ - Uses materials from a third-part provider
* - Completer course

Cluster: Manufacturing

Pathway: Advanced Manufacturing

This Career Pathway can serve as a guide, along with other career planning materials, as students continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each student's educational and career goals. Twenty eight credits are needed for graduation.

Student Name: _____
 Grade: _____
 School Name: _____

Career Counseling		CTE Preparation		Academic		English		Others		Total Credits	Workbased Learning Experiences										
Career Counseling, Exploring Career Decision (8th grade), Exploring Technology (8th Grade), Career Management, Guest speakers from the industry, Career and College promise partnership with College of the Albemarle, Pre Act testing Career exploration, ASVAB assessment		Enhancement (CC45) Career Management (BF05) Personal Finance (BFTT, FACS, & MEE) Principles of Business		Foundation Core and Sustainable Construction Carpentry I Carpentry II Carpentry III		Social Studies World History-1cr American History I/II-2cr Civics and Economics-1cr		Health/PE-1cr		5 5 4 2		Career Academy (partner with Chamber and Extension office) Job Shadowing Field Trips Classroom Speakers Career Forum									
														Complete minimum of 4 Courses to Earn CTE Concentrator Status--one must be starred * course		Electives--Students choose from CTE Foundation & Enhancement options below.		10		Partnership with Sumitomo Drive Technologies Participation of Career and College Promise/COA	
														Required Courses		CTE Advanced Studies		Optional Articulated College Credits			
														NCCER		COA Equivalent High School Course Prin of Business & Finance Mic Word, PP, and Publisher		(BUS125) Personal Finance (CIS111) Intro to Computers			
Credentials Microsoft Word and PowerPoint Microsoft Access and PowerPoint Career Readiness Credential (WorkKeys) EverFI		Introduction to T and I		Career Diploma Endorsement Requirements CTE Concentrator Status		Continuing Education College of the Albemarle															

Community College Options

University Options

You can view the Educational Catalogue for NC Community Colleges at this link:

www.cfnc.org

Click on the Education Catalogue link.

[East Carolina University](#)
[Elizabeth City State University](#)
[Fayetteville State University](#)
[North Carolina State](#)

Asterville-Burcome Technical Community College	Guilford Technical Community College
Blue Ridge Community College	Isothermal Community College
Carteret Community College	Johnston Community College
Catawba Valley Community College	Lenior Community College
Cleveland Community College	Mayland Community College
Coastal Carolina Community College	Montgomery Community College
College of the Albemarle	Sandhills Community College
Davidson County Community College	South Piedmont Community College
Durham Technical Community College	Southwestern Community College
Fayetteville Technical Community College	Tri-County Community College
Forsyth Technical Community College	Wake Technical Community College
Gaston College	Wilkes Community College

Visit <http://www.cfnc.org> for more information

NC Average Annual Wage: \$36,903

Employment Outlook

The Manufacturing curriculum is designed to introduce students to the various aspects of the manufacturing industry. Students will be provided with a fundamental knowledge of carpentry and exportation in technology. Students will also gain an understanding of the role of manufacturing in today's global economy. Course work includes Introduction to Trade and Industrial Education and Carpentry concepts. Skills related to the application of these concepts are developed through the study of the foundational coursework in the Carpentry pathway, communication, team building, and decision making. Through these skills, students will have a sound awareness of the manufacturing processes..





Manufacturing


Elizabeth City-Pasquotank Public Schools Career & Technical Education Pathway Plan



Career Pathway Plan of Study for ▶ Students ▶ Parents ▶ Counselors ▶ Teachers/Faculty

This Career Pathway Plan of Study can serve as a guide, along with other career planning materials, as students continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each student's educational and career goals. Students are strongly encouraged to participate in honors, advanced placement, or Career & College Promise courses.

Student Name _____
 Student ID Number _____

	8	9	10	11	12	Computer Integrated Machining - Diploma			
						Year 1- Fall	Year 1- Spring	Year 1- Summer	
ACADEMIC	ENGLISH/ LANGUAGE ARTS MATH SCIENCE SOCIAL STUDIES	English	English I	English II	English III	English IV	MAC 111 MAC 131 MAC 151 MAC 121 MAC 171 MAC 172 COM 101	MAC 112 MAC 122 MAC 124 MAC 132 MEC 110 MAT 110 WBL 110 or 111	MAC 113
		World History Health/PE	World History Health/PE	Civics	American History I/II				
TECHNICAL	CAREER & TECHNICAL EDUCATION OPTIONS	Exploring Career Decisions	Core & Sustainable Construction (PCHS) or Drafting I (NHS) or Personal Finance	Carpentry I (PCHS) or Electrical Trades I (PCHS) or Drafting II Architecture (NHS)	Carpentry II (PCHS) or Drafting III Architecture (NHS)	Carpentry III (PCHS) or Electrical Trades II (PCHS)	The Computer Integrated Machining curriculum is designed to develop skills in the theory and safe use of hand tools, power machinery, computerized equipment, and sophisticated precision inspection instruments. Students learn to interpret blueprints, setup manual and CNC machines, perform basic and advanced machining operations, and make decisions to insure that work quality is maintained.		
COLLEGE	CAREER & COLLEGE PROMISE		DFT 111 ARC 111 ARC 114	ARC 113	ELC 112 ELC 113	 COLLEGE ALBEMARLE			
CAREER DEVELOPMENT	COUNSELING AND ADVISING		NC Career Cluster Guide Activities	ACT PLAN	ACT College Readiness Assessment ASVAB	ACT Workplace Readiness Assessment (WorkKeys) ASVAB	COA Monthly HSWP Admission Info Sessions COA Resume Writing Assistance College Transfer Advisement NC Works Career Center Services - www.ncworks.gov		
		WORK-BASED LEARNING OPPORTUNITIES CTSOs (Career Technical Student Org.)	Groundhog Job Shadow	Classroom Speaker Field Trip	Classroom Speaker Field Trip	Career Day Job Shadow	Work-Based Learning Opportunity	Upon completion of this concentration, graduates will be able to qualify for employment opportunities for machining technicians exist in manufacturing industries, public institutions, governmental agencies, and in a wide range of specialty machining job shops.	
CREDENTIALS	STACKABLE CREDENTIALS		Autodesk Certified User	Autodesk Certified RevIt	OSHA-Industry Cert NCCER Credential	Career Readiness Credentials (CRCs) [WorkKeys]	Quick Facts: Machinists and Tool and Die Makers 2016 Median Pay: \$43,160 per year; \$20.75 per hour Typical Entry-Level Education: High school diploma or equivalent Work Experience in a Related Occupation: None On-the-job Training: Long-term on-the-job training Number of Jobs, 2014: 477,500 Job Outlook, 2014-24: 6% (As fast as average) Employment Change, 2014-24: 29,000		

**Edenton-Chowan Schools
STEM**

**Career & Technical Education Pathway Plan
Pathways: Technology & Design (TED) &
Graphic Arts and Imaging Technology (GAIT)**

This Career Pathway can serve as a guide, along with other career planning materials, as students continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each student's educational and career goals. Twenty-eight credits are needed for graduation from high school.

English Language Arts	Math	Science	Social Studies	Others	STEM Careers:
9 English I	NC Math I or II	Earth Science	World History	Health/PE	Engineers: Aerospace, Agricultural, Architectural, Biochemical, Biomedical, Chemical, Civil, Electrical, Electromechanical, Electronics, Energy, Environmental, Health & Safety, Industrial, Manufacturing, Marine, Mechanical, Mechatronics, Microsystems, Mining & Geological, Nanosystems, Nuclear, Photonics, Robotics, Solar Energy Systems, and Wind Energy
10 English II	NC Math II or III	Biology	The Founding Principles of Civics and Economics	Students planning to attend 4-year university should take two foreign languages, one being a 2nd level course.	Other STEM Careers: Astronomers, Cartographers, Chemists, Computer Programmers & Support, Doctors, Drafters, Gaming, Graphic Communication & Design, Professors, Researchers, Scientists, Teachers, Technicians,
11 English III	NC Math III or above	a Physical Science	American History I and American History II		A career in TED or in GAIT begins in the STEM Academy!
12 English IV	4th Math				

Electives: Students choose from CTE Foundation & Enhancement options below. Must complete a minimum of 4 courses to earn CTE Concentrator Status ~ one must be a starred * course.

Foundation	Enhancement	STEM Credentials Available:
Technology Engineering & Design: Technology, Engineering & Design, Technological Design, Engineering Design * Graphic Arts and Imaging Technology: Introduction to Graphics, Adobe Visual Design, Adobe Digital Design, Adobe Video Design *, Print Advertising & Design *	Students can opt to replace one Foundation Course above with an Enhancement Course: Microsoft Excel & Access Microsoft Word & PowerPoint Principles of Business & Finance CTE Internship Marketing Personal Finance Advanced Manufacturing I Digital Media Career Management Entrepreneurship I	Career Readiness Credentials Microsoft Word, PowerPoint, Excel & Access EverFI OSHA 10 Adobe ACA Certifications

Workbased Learning Experiences: Skills USA



Perquimans County Schools
 Career and Technical Education

"Proud of the Past Focused on the Future"



Cluster: Advanced Manufacturing

Courses listed within this plan are recommendations only and should be individualized to meet each student's educational and career goals.
 (28 credits needed for graduation)

Student Name: _____
 Grade: _____
 School Name: _____

Grade	English	Math	Science	Social Studies	Other	Work-Based Learning Experiences		
						Skills USA	Virtual Interview	
9	English I	Math I	Earth Science	World History	Healthy/PE	Skills USA		
10	English II	Math II	Biology	American History I&II**		STEM Career Opportunities through College of Albemarle		
11	English III	Math III	Chemistry	Civics and Economics		Job Shadowing	CTE Internships	
12	English IV	4th Math				Field Trips	Service Learning	
University admissions require two world language credits—one being 2nd level Electives—Students choose from CTE Foundation & Enhancement options below Complete minimum of 4 Courses to Earn CTE Concentrator Status—one must be starred * course Foundation Courses - 3 required						Classroom Speakers		
Foundation Adobe Visual Design Adobe Digital Design Adobe Video Design Approved CCP courses -Welding 112, 115, 116,121 CS95 CTE Advanced Studies								Community College Articulated Courses High School Courses Community College Courses Microsoft Word & PPT CS 111 OR OST 136 Personal Finance BUS 125 Principles of Business & Fin. BUS 125
Enhancement BF10 Principles of Business & Finance BM10 MS Word and PowerPoint BF05 Personal Finance BM20 Microsoft Excel & Access CS 97 CTE Internship								Career Diploma Endorsement requirements CTE Concentrator Status 2.6 Unweighted GPA Minimum of one industry credential
Credentials EverFI Adobe ACA Certifications Career Readiness Credential (WorkKeys) Microsoft Word, Powerpoint Microsoft Excel, Access								
Career Exploration 8th Grade Introduction to Biotechnology in Agriculture Career Counseling 9-12th Grade Pre-ACT--10th grade ACT College Readiness Assessment								For More Information See: http://www.nccommunitycolleges.edu/academic-programs/education-catalog ctnc.org Local High School Student Services

Criteria # 3

Collaboration



Advanced Manufacturing Pathways Meeting Agenda

May 25, 2017

- I. Overview of Local Pathway Certification
 - a. Why?
 - b. Who?
 - c. What?

- II. Advanced Manufacturing Pathways Offered by College of The Albemarle
 - a. Credit and Non-Credit
 - b. Machining
 - c. Welding
 - d. Computer Aided Drafting
 - e. Electrical Systems
 - f. HVAC

- III. Work Based Learning

- IV. Pathway Options: High School to College to Career

- V. Northeast Workforce Development Board

- VI. Steps and Roles for CP Implementation

- VII. Questions and Discussion

ADVANCED MANUFACTURING - SIGN-IN SHEET

Local Pathway meeting

May 25, 2017

FC - 121 College of The Albemarle

Name - printed	Title	Company/ School	Signature
Nannette C. Turner-Williams	Manager	NCWORKS	<i>Nannette Turner-Williams</i>
Latoria Roundtree	Career Advisor	NCWORKS	<i>Latoria Roundtree</i>
Rob Boyce	Pathway Facilitator	NCWORKS	<i>Rob Boyce</i>
Emily Nicholson	Bus. Serv.	NWDB	<i>Emily Nicholson</i>
BEVERLY HARRISON	INC/COO/SPC	EDENTON- CHOWAN	<i>Beverly P. Harrison</i>
Tim Askew	Chemical Rep	ENUNOSERVE Chemicals	<i>Tim Askew</i>
Jason Futrell	Mechanical Production Supervisor	Hoffer Flow Controls	<i>Jason Futrell</i>
John Stolarczyk	CAD Program Coordinator	COA	<i>John Stolarczyk</i>
Don Monro	CTE Director	Curriculum Schools	<i>Don Monro</i>
JOE GOPI	MANUFACTURING MANAGER	SUMITOMO DRIVE TECHNOLOGIES	<i>Joe Gopi</i>
R. Patrick Stephan	Welding Supervisor	Sumitomo Drive Technologies	<i>R. Patrick Stephan</i>
MICHAEL LOPES	PC WELDING	COA	<i>Michael Lopes</i>
William J. Spear	WELDING INSTRUCTOR	COA	<i>William J. Spear</i>
MIKE VILLARDI	VP MANUFAC.	HOCKMEYER EQUIP	<i>Mike Villardi</i>
Rhonda James-Pass	CTE - Director Eliz. City - Pass. Public	Eliz. City - Pass. Public Schools	<i>Rhonda James-Pass</i>
STEVE PRICE	SALES ENGINEER	HAAS FACTORY OUTLET	<i>Steve Price</i>
Suzanne Sanders	General Manager	Motion Sensors	<i>Suzanne Sanders</i>
KAREN ALEXANDER	COA PERS. COORD BUS TECH	COA	<i>K. Alexander</i>

Advanced MANUFACTURING Local Pathway Meeting- Sign-In Sheet

May 25, 2017 FC 121 – College of The Albemarle

Name - printed	Title	Company/ School	Signature
Jean Taylor	CTE Director	Dare Co Schools	Jean Taylor
Don Monroe	CTE Director	Currituck Co Schools	Don Monroe
Latoria Roundtree	CTE		
Rhonda James-Davis	CTE Director	Eliz. City - Pasg. Public Schs	Rhonda James-Davis
Evonne Carter	VPL	COA	Evonne Carter
Michelle Watus	Dean	COA	Michelle Watus
Robin Zinsmeister	Dean	COA	Robin Zinsmeister
David Chambers	Fac	COA	David Chambers
[Signature]	Director	NWDB	[Signature]
Haam Robert	EMS Supervisor	Steel America	Haam Robert
Nathan Hassell	EMS Supervisor	Edome's Shipyard	Nathan Hassell
Joie Cohen	CTE Director	Perquimans County School	Joie Cohen

Criteria # 4

Work Based Learning

Employers Providing Advanced Manufacturing Work-based Learning Opportunity

Entity	Employer 1	Employer 2	Employer 3
Currituck	none currently, plan to begin Internship program 2018-19		
Date	NC Ferry System, Chris Bock	Kitty Hawk Iron and Steel, Helen Hoppe	Outer Banks Heating and Cooling
Edenton-Chowan	Nucor	Albemarel Boats	
E-City-Pasquotank	Currently in the process of reaching out to local companies to form partnerships to offer students work-based learning opportunities		
Perquimans	Albemarle Electric	Expect marine industry employer(s) in the future	
COA	Hockmeyer Equipment		
NWDB	NWDB: OJT contracts currently in progress at Hoffer Flow Controls & Albemarle Boats		

Criteria # 5.1

Career Awareness

Northeastern NC Works Pathways Comprehensive Career Guidance and Counseling
Local Implementation Planning Document Grades 6 – Adult

Self-Awareness	
M I D D L E S C H O O L	<p>Put LEA code in parenthesis (1-Camden; 2– Currituck; 3-Dare; 4- E-Chowan; 5- E-Pasquotank; 6-Gates; 7-Perquimans)</p> <ol style="list-style-type: none"> 1. Use the “Who Am I” lessons from the middle school career development course(grades 6-8) (2,3,) 2. CDC will have individual 1:1 meetings with students to discuss academic and aptitude challenges and strengths based on interest inventory, career interests and goals (grades 7,8) (2,3,4,5) 3. Investigate and research self-awareness activities through Career Cruising (grades 6-8) (3) 4. Administer interest inventory (grades 6-8) (2,3,5) 5. Administer learning style inventory (grades 6-8) (2,3,5) 6. Career Fair (grades 6-8) (2,3,5,7,4) 7. Investigate and research self-awareness activities through CFNC (grades 6-8) (2,3, 5,4)
H I G H S C H O	<p>Put LEA code in parenthesis (1-Camden; 2– Currituck; 3-Dare; 4- E-Chowan; 5- E-Pasquotank; 6-Gates; 7-Perquimans)</p> <ol style="list-style-type: none"> 1. Use student interest inventory from Career Cruising and CFNC (grades 9-10) (3,5,7) 2. Schedule individual student sessions to discuss the link between academic and student interests and discuss future career interests (grades 9-12) (2,3,5,7,4) 3. Provide CTE specific training for counselors and school administration (clusters, pathways, Program of Study, concentrators) (grades 9-12)(2,3,5,7,4) 4. ASVAB (2,3,5) 5. WorkKeys (2,3,5,7,4)

O L	6. Conduct sessions on interpreting ASVAB results (grades 11-12) (2,3,5)	
C O M M U N I T Y C O L	<ol style="list-style-type: none"> 1. COA Financial Aid Advisement and assessment of resources available for support 2. COA Veteran's Services for career advisement and resources available for support 3. COA Human Resources & Soft Skills Development Courses 4. COA Career Readiness Credentials including use of TABE (Test of Adult Basic Education) 5. Complete CFNC account and career interest inventories 6. Referrals to NC Works Career Center Services and tools - www.ncworks.gov 7. Use SAT, multiple measures, ACT, and ATI TEAS scores for placement in english and math course levels and for health sciences program admissions. 8. Referrals and info shared from the Bureau of Labor Statistics Occupational Outlook Handbook 9. COA personnel are housed at the EC NC Works Career Center 1 day per week to strengthen partnership 10. Minority Male Success Initiative providing specific outreach and career assessment/advising to new and enrolled minority male students - EC Campus only 11. Open House events and Campus Tours - interactive and designed to help students make good career choices 12. Promotional workforce development materials showing salary information and growth potential of employees in specific fields 13. Director of Advising and Student Success will visit classes and give workshops on specific career information 14. The college hosts an annual Career Fair on the EC Campus 15. Mandatory <i>Connect Sessions</i> for new students prior to placement testing and registration 16. Advanced Manufacturing Event (Yearly) on the Currituck Camps 	
W O R K F O R C E D E V.	<p style="text-align: center;">Adults</p> <ol style="list-style-type: none"> 1. NCWorks Self-Assessment Tools 2. NCWorks Objective Assessment with Staff 3. CRC Scores 4. College Placement Tests 5. O-Net Online Activities 6. My Next Move Online Activities 	<p style="text-align: center;">Non-adults</p> <ol style="list-style-type: none"> 1. NCWorks Self-Assessment Tools 2. NCWorks Objective Assessment with Staff 3. CRC Scores 4. College Placement Tests 5. O-Net Online Activities 6. My Next Move Online Activities 7. TABE (Test of Adult Basic Education) 8. Career Inventory Assessment 9. Volunteer Opportunities

Northeastern NC Works Pathways Comprehensive Career Guidance and Counseling Local Implementation Planning Document Grades 6 – Adult

Career Awareness, Exploration, and Goal Setting	
M I D D L E S C H O O L	<p>Put LEA code in parenthesis (1-Camden; 2- Currituck; 3-Dare; 4- E-Chowan; 5- E-Pasquotank; 6-Gates; 7-Perquimans)</p> <ol style="list-style-type: none"> 1. Career Fair (grades 6-8) (2,3,5,7,4) 2. Provide field trips related to student career interests (grades 7-8) (2,3,5,7) 3. Invite/provide guest speakers (grades 6-8) (2,3,5,7,4) 4. Begin the career development plan using Career Cruising (grade 8) (3) 5. Set up CFNC accounts (grade 8) (2,3,5,7,4) 6. Conduct/participate in career planning lessons, parent nights, student course registration (grade 7-8) (2,3,5,7,4) 7. Participate in Take Your Sons and Daughters to Work Day (grade 6) (2,3) 8. Participate in Career Development Poster/Poetry Contest (grades 6-8) (3) 9. STEM Expos (grades 6-8) (5,4) 10. Participate in Groundhog Job Shadowing Day (grade 8) (3,5) 11. Student membership and participation in CTSOs (grade6-8) (3, 7,4)
H I G H S C H O O L	<p>Put LEA code in parenthesis (1-Camden; 2- Currituck; 3-Dare; 4- E-Chowan; 5- E-Pasquotank; 6-Gates; 7-Perquimans)</p> <ol style="list-style-type: none"> 1. Organize career fairs, cluster based (grades 9-12) (2,3,5,7) 2. Student internships, career shadows, service learning (grades 9-12) (2,3,5,7,4) 3. Coordinate local community college and post-secondary reps in classrooms (grades 9-12) (2,3,5,7) 4. Career-based classroom speakers (grades 9-12) (2,3,5,7,4) 5. Student membership and participation in CTSOs (grades 9-12) (2,3,5,7,4) 6. Update CFNC accounts, interest inventories, 4-year plans (grades 9-12) (2,3,5,7,4) 7. Parent Nights, course registration (grades 9-11) (2,3,5,7,4) 8. Senior Projects, college planning (grade 12) (2,3,7,4) 9. Organize college tours (grade 11-12) (3,2,5,7,4) 10. Host financial aid workshops (grades 11-12) (3,5,7,4)

	<p>11. Provide virtual and face-to-face job shadowing opportunities (grades 9-12) (2,3, 5,7,4)</p> <p>12. Miscellaneous Career and College Expo Activities (2,3,5,7,4)</p>				
<p>C O M M U N I T Y C O L L</p>	<ol style="list-style-type: none"> 1. Annual Advanced Manufacturing Event held on the Currituck Campus. 2. Utilization of student success coaches to provide intensive advisement to students 3. Orientation activities designed to include career awareness, exploration and goal setting 4. Open communication and sharing (i.e.. GRAD data; student career plans) between high school and community college counselors 5. Structured one on one advising and also cohort advising in Advanced Manufacturing-related programs of study. 6. Advanced Manufacturing Boot Camps (Welding and Manufacturing) in summer 7. Collaboration GroundHog Shadow Days and Gear up Career exploration days 8. Campus tours of middle and high school students to see labs and participate in hands-on activities 9. Visits to high school classes and career days/fairs to promote career pathways including lunch and learn series at local high schools and middle schools. 10. Referrals to NC Works Career Center Services and resources - www.ncworks.gov with WIOA Counselor on campus 1 day per week. NC WORKS Career Centers are located on 2 of the 4 COA campus sites. 11. COA College and Career Readiness Advisement services 12. Referrals and info shared from the Bureau of Labor Statistics Occupational Outlook Handbook through marketing materials. 13. Production of multiple tools and career pathways information on website and in paper format for advising and program /career information. 13. Employer and colleges visits to classrooms to speak about careers, college transfer and recruitment activities (ex. Summitomo, Iron Works, etc.) 14. COA personnel are housed at the EC NC Works Career Center 1 day per week to strengthen partnership 15. Minority Male Success Initiative providing specific outreach and career assessment/advising to new and enrolled minority male students - EC Campus only 16. Open House events and Campus Tours - interactive and designed to help students make good career choices 17. Promotional workforce development materials showing salary information and growth potential of employees in specific fields 18. The college hosts an annual Career Fair on the EC Campus 				
<p>W O R K F</p>	<table border="1"> <thead> <tr> <th data-bbox="300 241 332 1029">Adults</th> <th data-bbox="300 1029 332 1976">Non -adults</th> </tr> </thead> <tbody> <tr> <td data-bbox="126 241 300 1029"> <ol style="list-style-type: none"> 1. Career Fairs 2. Job Fairs </td> <td data-bbox="126 1029 300 1976"> <ol style="list-style-type: none"> 1. Career Inventory Assessment 2. Individual Education Plans 3. Work-Based Learning Activities (Work Experiences, Job </td> </tr> </tbody> </table>	Adults	Non -adults	<ol style="list-style-type: none"> 1. Career Fairs 2. Job Fairs 	<ol style="list-style-type: none"> 1. Career Inventory Assessment 2. Individual Education Plans 3. Work-Based Learning Activities (Work Experiences, Job
Adults	Non -adults				
<ol style="list-style-type: none"> 1. Career Fairs 2. Job Fairs 	<ol style="list-style-type: none"> 1. Career Inventory Assessment 2. Individual Education Plans 3. Work-Based Learning Activities (Work Experiences, Job 				

O R C E D E V. B D.	<p>3. O-Net On-Line Activities</p> <p>4. NCWorks.gov research/activities/career services</p> <p>5. Referral to Community College.edu websites</p> <p>6. Referral to Community College staff in Centers</p> <p>7. Referral to Community College Workshops</p> <p>8. Title I, Title II, Title IV, Title V Information</p> <p>9. OJT</p> <p>10. HRD Classes</p>	<p>Shadowing)</p> <p>4. Career & Job Fairs</p> <p>5. Business & College Tours</p> <p>6. Education/Career Websites (MyNextMove.com, O-Net On-Line, CFNC.org, etc.)</p> <p>7. LMI Data Research Tools</p> <p>8. NC Annual Youth Summit</p> <p>9. NC General Assembly Tours</p> <p>9. Referral to Community College Workshops</p> <p>10. Referral to Community College.edu websites</p>
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Northeastern NC Works Pathways Comprehensive Career Guidance and Counseling Local Implementation Planning Document Grades 6 – Adult

High School Course Selection and Post-Secondary Planning	
M I D D L L E S C H O O L	<p>Put LEA code in parenthesis (1-Camden; 2– Currituck; 3-Dare; 4- E-Chowan; 5- E-Pasquotank; 6-Gates; 7-Perquimans)</p> <p>1. High School tour (grade 8) (2,3,5,7,4)</p> <p>2. Parent Night, high school course selection, CDP (grade 8) (2,3,5,7,4)</p>
H I G H S C H O O L	<p>Put LEA code in parenthesis (1-Camden; 2– Currituck; 3-Dare; 4- E-Chowan; 5- E-Pasquotank; 6-Gates; 7-Perquimans)</p> <ol style="list-style-type: none"> 1. Share Career Cluster Documents with students during course registration, parent nights (grades 9-12) (2,3,5,7,4) 2. Parent Night, share articulation credit possibilities, CCP (grades 9-12) (2,3,5,7) 3. CDC and school counselors partner to meet with students to discuss course selection, post-secondary planning including high school plan (grades 9-12) (2,3,5,4) 4. Use Career Cruising, CFNC with students (grades 9-12) (2,3,5) 5. Career Fairs (grades 9-12) (2,3,5,4) 6. Promote certifications and credentials for students (grades 9-12) (2,3,5,7,4) 7. Multicultural programs for EL parents (grades 9-12) (2,3) 8. Career Shadows, student internships, apprenticeships (grades 9-12) (2,3,5,7,4) 9. Promote and coordinate volunteer and service learning opportunities (grades 9-12) (2,3,5,7,4)

	<p>10. Promote extra curricular camps and workshops offered at post-secondary institutions related to career choices (grades 9-12) (2,3,5,7,4)</p> <p>11. Assist with scholarship and financial aid process (grades 11-12) (2,3,5,7,4)</p> <p>12. Coordinate transition fair for EC and 504 students (grades 11-12) (3)</p> <p>13. Sponsor Lunch and Learn and/or Tuesday Talks with a focus on “soft skills” and “technical skills” (grades 9-12) (5,7)</p> <p>14. Promote CTE Internship via email to Class of 2018 and Class of 2019 (2,3,4)</p> <p>15. Promote students enrolling in CCP/CTE courses - welding (7,5,3)</p>	
<p>C O M M U N I T Y C O L L</p>	<ol style="list-style-type: none"> Individual and cohort counseling sessions with program coordinators/faculty. Assignment of student advisor in Student Success and Enrollment Management area who has specific knowledge related to selected program’s advisement. Articulated credit between high school and community college. Well defined pathways for all advanced manufacturing-related programs at COA and use of CCP and CTE pathways in high schools to obtain college credit while in high school. Secondary Education meetings annually with CCP and CTE high schools counselors to share pathway options and marketing materials. Yearly Advanced Manufacturing Event to ensure students are exposed to advanced manufacturing pathways and career options. COA advisors go to high schools to assist with testing and advising of high school students. Dedicated Secondary Education Director and a college recruitment position that facilitate high school pathways. Utilizing SAT and ACT and multiple measures for post secondary planning and placement levels. Minority Male Success Initiative providing specific outreach and career assessment/advising to new and enrolled minority male students - EC Campus only Open House events and Campus Tours for high school students - interactive and designed to help students make good career choices Mandatory <i>Connect Sessions</i> for new students prior to placement testing and registration 	
<p>W O R K F O</p>	<p style="text-align: center;">Adults</p> <ol style="list-style-type: none"> Career Fairs Referral to Community College web-sites FAFSA application information Referral to Title I Services NCWorks Objective Assessment with Career 	<p style="text-align: center;">Non-adults</p> <ol style="list-style-type: none"> Career Fairs Referral to Community College web-sites FAFSA application information College Tours NCWorks Objective Assessment with Career

<p>R C E D E V. B D.</p>	<p>Advisors</p>	<p>Advisors</p> <ul style="list-style-type: none"> 6. TABE & College Placement Test 7. Career Inventory Assessment 8. LMI Data Research Tools
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**Northeastern NC Works Pathways Comprehensive Career Guidance and Counseling
Local Implementation Planning Document Grades 6 – Adult**

Personal/Employability Skills Development	
<p>M I D D L E S C H O O L</p>	<p>Put LEA code in parenthesis (1-Camden; 2– Currituck; 3-Dare; 4- E-Chowan; 5- E-Pasquotank; 6-Gates; 7-Perquimans)</p> <ol style="list-style-type: none"> 1. Guest speakers, field trips (grades 6-8) (2,3,5,7,4) 2. Practice “mock interviews”, job applications (grades 6-8) (2,3,5) 3. Soft Skills Role plays (2,3,5) 4. Interactive student email campaigns (grades 6-8) (3) 5. College and Career Expo Introduction Assembly (grades 6-8) (2,3) 6. Miscellaneous College and Career Expo Activities (grades 6-8) Professional Dress Competition (3,7) Secret 10 Exhibitor - Soft Skills Interactive Activity (3) 7. Student membership in CTSOs (grade 6-8) (7,4,3)
<p>H I G H S C H O O L</p>	<p>Put LEA code in parenthesis (1-Camden; 2– Currituck; 3-Dare; 4- E-Chowan; 5- E-Pasquotank; 6-Gates; 7-Perquimans)</p> <ol style="list-style-type: none"> 1. Student membership in CTSOs (grades 9-12) (2,3,5,7,4) 2. KeyTrain sessions/WorkKeys soft skills assessments (grades 9-12) (2,3,5,7,4) 3. Career Shadows, Internships, guest speakers, career fair (grades 9-12) (2,3,5,7,4) 4. Senior Project (grade 12) (2,3,4) 5. Promote yearly Chamber of Commerce Job Fair (grades 9-12) (2,3,5,7) 6. Coordinate a school-wide job fair (grades 9-12) (2,3,4) 7. Refer and coordinate connections with the Vocational Rehab and NC Works (grades 11-12) (2,3,5) 8. Involve students in community volunteering and service projects (2,3,5,4) 9. Soft Skills Role plays (2,3,5,7) 10. Interactive student email campaigns (3)

	<p>11. College and Career Expo Introduction Assembly (2,3)</p> <p>12. Miscellaneous College and Career Expo Activities</p> <p>Professional Dress Competition</p> <p>Secret 10 Exhibitor - Soft Skills Interactive Activity (3)</p>	
<p>C O M M U N I T Y C O L</p>	<ol style="list-style-type: none"> 1. COA WBL 110 class includes communication in the workplace (soft skills), and career exploration, resume writing, and interviewing skills. Students complete WBL 110 or 111 (actual work experience). 2. COA Career Center 3. COA Resume Writing Assistance 4. COA Human Resources & Soft Skills Development Courses 5. COA Career Readiness Credentials 6. COA Work Based Learning activities with focus on professionalism and work skills 7. COA College and Career Readiness Advisement 8. Referrals to NC Works Career Center Services - www.ncworks.gov and onsite WIOA counselor 2 days per week 	
<p>W O R K F O R C E D E V. B</p>	<p style="text-align: center;">Adults</p> <ol style="list-style-type: none"> 1. NCWorks On-Line Learning Resources 2. Working Smart 3. Employer specific training needs 4. CRC classes and testing 5. HRD Communication Classes 6. HRD Employability Skills Classes 7. OJT 8. Referral for Title I, Title II, Title IV and Title V Classes 	<p style="text-align: center;">Non-adults</p> <ol style="list-style-type: none"> 1. Working Smart Course 2. CRC classes and testing 3. HRD Communication Classes 4. HRD Employability Skills Classes 5. Work-Based Learning Activities (Work Experiences, Job Shadowing) 6. Volunteer Opportunities 7. OJT 8. Financial Literacy Education (Real World Simulation, Workshops) 9. Entrepreneurial Skills Training 10. Referral to Voc Rehab

D.

11. Referral to Continuing Education Courses

Criteria # 5.2

Certified Pathway
Career Awareness

Adv Manufacturing Pathway Career Awareness Activities

	Advanced Manufacturing Pathway Career Awareness Activity	Date	Activity Description
Currituck	COA, Aviation Center Career Days, Career Forum	3/23/17, annual activities. on going	Annual activities to elevate student awareness and promote opportunities in manufacturing
Dare	COA Open House, tours of Manchese Seafood Industrial Park, NCDOT Ferry System; COA Advanced Manufacturing Day	4/1/2017 and on-going through 2018	Manufacturing tour and open house, job shadows, internship, guest speakers
Edenton-Chowan	Nucor, Albemarle Boats	4/12/17, 5/16/17	Visits to industry, tours
E-City-Pasquotank	COA Advanced Manufacturing Day	April 26	Students were informed of educational opportunities and careers in machining, welding, aviation, engineering and drafting and design
Perquimans	STEM career visits to ECSU & COA	2/13/17 and on going	students participated in STEM day at colleges. Teachers participated in PD at ECSU (Saturday training)
COA	Advanced Manufacturing Day	3/31/2017	Event designed to educate students about local career opportunities in Advanced Manufacturing
Northeastern WDB	Advanced Manufacturing Day at COA	3/31/17	Partnered with COA for Advanced Manufacturing Day on March 31st by helping to promote the event and career advisors attended.

Criteria # 6

Adult Learner Focus

Do more than get a job.
Find your pathway to a GREAT CAREER!

Our Career Advisors
can help you get started
in one of these
**In-Demand
Careers in
Northeastern
North Carolina**



ADVANCED MANUFACTURING

- Machining
- Electrical Technology
- Welding



BUSINESS SUPPORT

- Administrative Support
- Information Technology
- Logistics



HEALTHCARE

- Nursing
- EMS/Paramedic
- Dental Hygienist



AGRISCIENCE/BIOTECHNOLOGY

- Biotech Technician
- Agribusiness Technology
- Foodservice Technology

Get started for free at...

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Northeastern
North Carolina
Career Pathways



Guiding Your
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Workforce**

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**NORTHEAST NC
CAREER
PATHWAYS**

***TOOLKIT FOR
CAREER ADVISORS***



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¹ *Northeastern Workforce Development Board created this template and is currently being used to train staff via Integrated Services Delivery 2.0*

² *Regional Model for Career Pathways for CTE students; contact your LEA for specific use at your area high schools*

³ *Pathway used by College of the Albemarle's Health Sciences; contact your local community college for their specific pathway materials/sequence*

⁴ *Contact information for the counties that encompass the Northeast NC Prosperity Zone*

Acronyms Used: LEA – Local Education Entity (School Districts); CTE – Career Technical Education; NENC – Northeast NC

CAREER PATHWAYS

*A Toolkit for Local
Implementation for Career
Advisors in Northeast NC*

WHY USE THIS?

“Career Pathways” shouldn’t be considered an *added component* of a career advisor’s work with clients—it should be the basis for all work that a career advisor does with a client.

HOW DO I USE THIS GUIDE?

Northeast NC has two “Certified NCWorks Career Pathways” in: Advanced Manufacturing and Health Sciences. This booklet gives career advisors a template to guide them through their implementation of a “pathway” with a client.

WHO IS THIS FOR?

All career advisors and their clientele—WIOA participants can align this with their IEP’s.

WHAT COMES NEXT?

There are certainly occupations that clients desire outside of these two industry sectors and there may be regionally approved pathways in the future that focus on those. Regardless, the materials herein provide career advisors with a framework that they can use for any occupational pathway planning.