## Leading Career Pathways

### Las Vegas, Nevada February 22-23, 2024

CORD.org

CENTER FOR OCCUPATIONAL RESEARCH & DEVELOPMENT



## Introduction Activity

## About CORD

A national nonprofit organization founded in 1979

#### **Core tenets:**

- 1. Contextual teaching in STEM disciplines
- 2. Seamless transitions from secondary to postsecondary education
- 3. Training solutions to help America's technicians remain globally competitive



Providing innovative changes in education to prepare students for greater success in careers and higher education

CENTER FOR OCCUPATIONAL RESEARCH & DEVELOPMENT

## **Workshop Agenda and Format**

#### Partnerships



**Employer Engagement** 

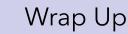


**Career Pathways** 



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#### Supporting Completion



#### **Components**

- Check-up Ο
- Content 0
- Activities  $\cap$
- Examples, Tools & Resources Ο
- o Action Plan
- Table discussion  $\bigcirc$

#### Local Action Plan

Goal, Objective, Priority: What do we want to ochieve?	Action Steps: How will we ochieve it?	Lead: Who is responsible?	Intended Results: Measurable outcomes?	Timeline: By when?	Notes:		
Partnerships							
Gaps and Opportunities		-	-		•		
Employer Engagement		·	- 1 	·	·		
Gaps and Opportunities							
Stackable Credentials/Ca	areer Pathways Program	Design			•		
Gaps and Opportunities							
Supporting Completion				·	·		
Gaps and Opportunities							

Advancing Credentials



## Workshop Resource Toolbox





https://www.cord.org/lasvegas-cpl1-feb2024/

It's a lot easier to start things than to stop them. Starting feels like growth and adventure, and things feel alive. Stopping can feel like loss and failure, but it shouldn't be.

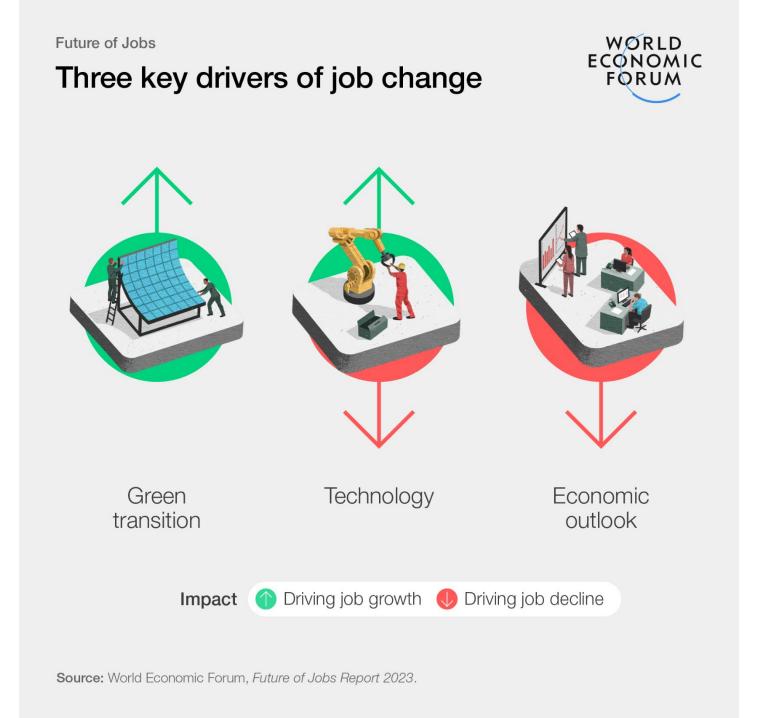
> David C. Baker punctuation.com

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## **Current State - World of Work**

- Nature of work changing at unprecedented speeds
- Technology advancements in machine learning, AI, IoT, and robotics eliminating some jobs, creating others
- Technicians sit at the center of much of this disruption
- Education must keep up
- Our students' career paths will evolve





Future of Jobs

#### Human-machine frontier

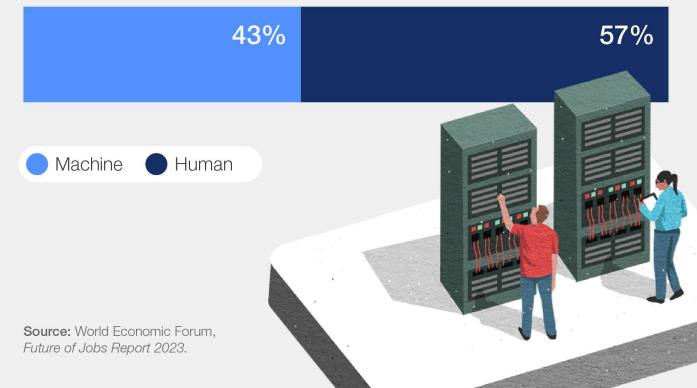


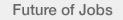
Proportion of tasks completed by humans vs machines

#### 2022



#### 2027





#### **Reskilling needs**



of workers' core skills are expected to change in the next five years

**Source:** World Economic Forum, *Future of Jobs Report 2023.* 

#### Top 10 skills of 2023



1. Analytical thinking	6. Technological literacy					
2. Creative thinking	7. Dependability and attention to detail					
3. Resilience, flexibility and agility	8. Empathy and active listening					
4. Motivation and self-awareness	9. Leadership and social influence					
5. Curiosity and lifelong learning	10. Quality control					
Type of skill Cognitive skills Self-efficacy Management skills Technology skills Working with others						

Note

Source World Economic Forum, Future of Jobs Report 2023.

The skills judged to be of greatest importance to workers at the time of the survey

#### Fastest growing vs. fastest declining jobs



#### Top 10 fastest growing jobs

#### Al and Machine Learning Specialists Bank Tellers and Related Clerks 1. 1. 2. Sustainability Specialists **Postal Service Clerks** 2. З. **Business Intelligence Analysts Cashiers and ticket Clerks** З. Information Security Analysts **Data Entry Clerks** 4. 4. 5. **Fintech Engineers** Administrative and Executive Secretaries 5. **Data Analysts and Scientists** 6. Material-Recording and Stock-Keeping Clerks 6. 7. **Robotics Engineers** 7. Accounting, Bookkeeping and Payroll Clerks 8. **Electrotechnology Engineers** Legislators and Officials 8. **Agricultural Equipment Operators** 9. Statistical, Finance and Insurance Clerks 9. Door-To-Door Sales Workers, News and Street Vendors, 10. **Digital Transformation Specialists** 10. and Related Workers

Top 10 fastest declining jobs

Source World Economic Forum, Future of Jobs Report 2023.

#### Note

The jobs which survey respondents expect to grow most quickly from 2023 to 2027 as a fraction of present employment figures

#### Largest growth vs. largest declining jobs



#### Top 10 largest growth jobs

#### **Agricultural Equipment Operators Data Entry Clerks** 1. 1. 2. Heavy Truck and Bus Drivers Administrative and Executive Secretaries 2. З. Vocational Education Teachers Accounting, Bookkeeping and Payroll Clerks З. **Mechanics and Machinery Repairers** Security Guards 4. 4. 5. **Business Development Professionals Building Caretakers and Housekeepers** 5. **Building Frame and Related Trades Workers Cashiers and Ticket Clerks** 6. 6. 7. University and Higher Education Teachers 7. Material-Recording and Stock-Keeping Clerks 8. **Big Data Specialists** Assembly and Factory Workers 8. Sheet and Structural Metal Workers, Moulders and Welders 9. Postal Service Clerks 9. 10. **Special Education Teachers** Bank Tellers and Related Clerks 10.

Top 10 largest decline jobs

Source World Economic Forum, Future of Jobs Report 2023.

#### Note

The jobs for which employment figures are expected to increase or decrease most quickly in real terms from 2023 to 2027 when survey responses are normalized to labour-market statistics from the ILO.

#### Fastest growing vs. fastest declining jobs

#### Top 10 fastest growing jobs

1.	Al and Machine Learning Specialists	1.	Bank Tellers and Related Clerks
2.	Sustainability Specialists	2.	Postal Service Clerks
3.	Business Intelligence Analysts	3.	Cashiers and ticket Clerks
4.	Information Security Analysts	4.	Data Entry Clerks
5.	Fintech Engineers	5.	Administrative and Executive Secretaries
6.	Data Analysts and Scientists	6.	Material-Recording and Stock-Keeping Clerks
7.	Robotics Engineers	7.	Accounting, Bookkeeping and Payroll Clerks
8.	Electrotechnology Engineers	8.	Legislators and Officials
9.	Agricultural Equipment Operators	9.	Statistical, Finance and Insurance Clerks
10.	Digital Transformation Specialists	10.	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers

Top 10 fastest declining jobs

Source World Economic Forum, Future of Jobs Report 2023.

#### Note

The jobs which survey respondents expect to grow most quickly from 2023 to 2027 as a fraction of present employment figures

WORLD ECONOMIC

FORUM

#### Largest growth vs. largest declining jobs

op 1(	) largest growth jobs	Top 10	) largest decline jobs
1.	Agricultural Equipment Operators	1.	Data Entry Clerks
2.	Heavy Truck and Bus Drivers	2.	Administrative and Executive Secretaries
3.	Vocational Education Teachers	3.	Accounting, Bookkeeping and Payroll Clerks
4.	Mechanics and Machinery Repairers	4.	Security Guards
5.	Business Development Professionals	5.	Building Caretakers and Housekeepers
6.	Building Frame and Related Trades Workers	6.	Cashiers and Ticket Clerks
7.	University and Higher Education Teachers	7.	Material-Recording and Stock-Keeping Clerks
8.	Big Data Specialists	8.	Assembly and Factory Workers
9.	Sheet and Structural Metal Workers, Moulders and Welders	9.	Postal Service Clerks
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WORLD ECONOMIC FORUM

54% of U.S. adults 16-74 years old (about 130 million people) lack proficiency in literacy, reading below the equivalent of a 6th grade level.

Dr. Jonathon Roswell

The illiterate of the 21<sup>st</sup> century will not be those who cannot read and write, but those who cannot learn, unlearn and relearn.

Alvin Toffler

writer, futurist and businessman

## **Common Vision**

- Programs that match the economic development needs of your community
- Graduates that possess the skills to ensure a high-quality workforce
- A community of lifelong learners



## Self Check #1

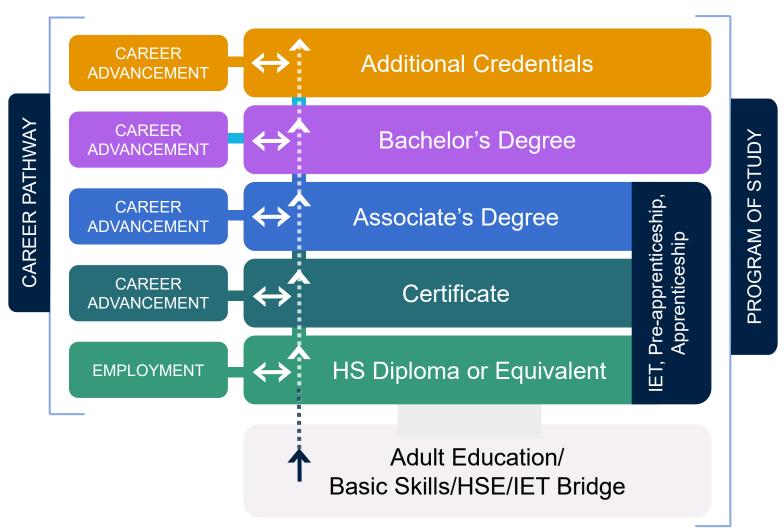
## Partnerships that Support Career Pathways



## What is a Career Pathway?

- An overarching ecosystem
- Must be for all learners in your community

## **Career Pathways**



Adapted from Introduction to Stackable Credentials, ED-OCTAE, 2021

#### Advancing Credentials THROUGH Career Pathways

#### Framework essential components:

- **1. Strategic Employer Engagement** through an industry-led model that yields workforce intelligence at a depth and with a frequency to facilitate continuous program improvement and innovation
- 2. Seamless Career Pathways supporting learners of all ages and skill levels, built on stackable credentials aligned to indemand skills and employment opportunities, and collaboratively developed by educators and employers
- **3.** Support for Credential Completion that recognizes "all learners as learners" by providing credit for prior learning, course schedules and delivery modes that accommodate the needs of working adults, and efficient program design that accelerates credential attainment





## **Partnerships to Support Career Pathways**

- **Employer** across sectors; collaborate as a team on everything from curriculum to work-based learning experiences; build your community's talent pipeline
- **Organizational** secondary and postsecondary/regional community; align, accelerate, advance; remove barriers
- **Instructional** academic, CTE, and Adult Education faculty as content development partners: interdisciplinary connections, real-world context, employability skills across curriculum
- Holistic Supports government and community organizations provide an array of supports to aid students in completion.

## **Ecosystem - Where are You?**

- No matter where you are, you have a role to play in career pathways.
- You can lead and work towards implementation by bringing the framework to your community.



## Across the Ecosystem

- We can't know it all.
- We can't do it all.
- We need partners across the community to collaborate in new ways...

to prepare us all for the journey ahead.

## POSTER ACTIVITY

## **Connections** & Contacts





## Partnerships Will be Key

- Leverage each other's resources and knowledge
- Connect disconnected systems
- Strengthen/build partnerships to support *your* community

## If you are not at the table, you are probably on the menu.

Congressman Glenn Thompson R-PA

## If they don't give you a seat at the table, bring a folding chair.

Shirley Chisholm

Politician, educator, first Black woman elected to the US Congress

### Build Cross-Agency Partnerships and Clarify Roles



#### **Key Element Components:**

- Engage inter-agency and cross-agency partners and employers.
- Establish a shared vision, mission, and set of goals.
- Define the roles and responsibilities of all partners.
- Develop a work plan and/or Memorandum of Understanding for the partnership.
- Maintain partnerships through frequent, scheduled interactions

## Action Planning



#### Local Action Plan

		teed	Intended Results:	Timeline:	Notes:		
Goal, Objective, Priority: What do we want to achieve?	Action Steps: How will we achieve it?	Lead: Who is	Measurable	By when?	Notes:		
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Advancing Credentials

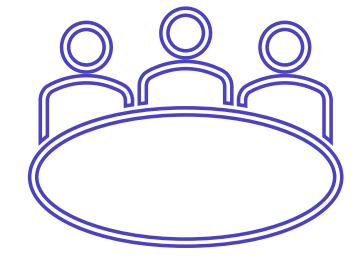
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#### ✓ Use Action Plan Template at your table

#### or

Download Action
 Plan Template
 from Workshop
 Toolbox

# Share and Discuss



## Paving a Seamless Pathway





### **Building Career Pathways That Support Innovation**

- Strategic employer engagement based on BILT model to drive innovation
- Career pathway mapping to reveal barriers to seamless progression and alignment to industry needs
- Credit for prior learning to accelerate time to credential and support completion
- Action Plan to guide your efforts



Advancing Credentials THROUGH Career Pathways

## Self Check #2

### Employer Engagement

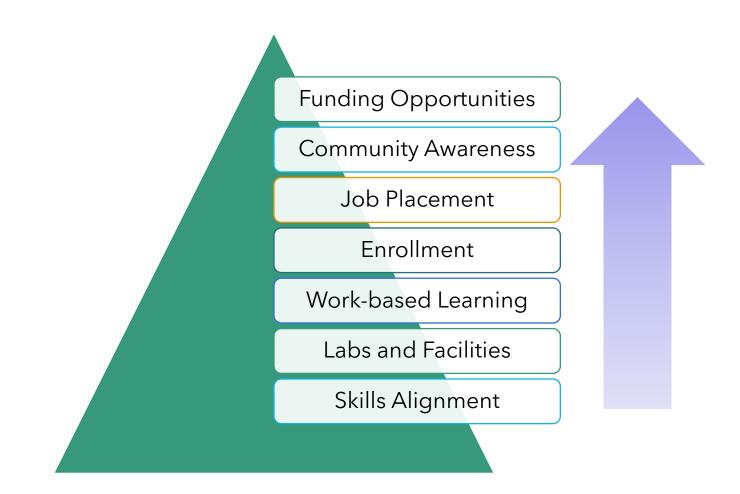


## What is Employer Engagement?

- A **strategy** to identify and integrate employer input and feedback into your institution's programs and activities.
- A working **relationship** where employers and institutions view each other as strategic partners.
- A methodology to:
  - keep your programs fresh and relevant
  - place your career-ready graduates into jobs
  - increase your enrollment
  - garner financial and other support
  - join voices for program advocacy



#### **Benefits of Strategic Employer Engagement**

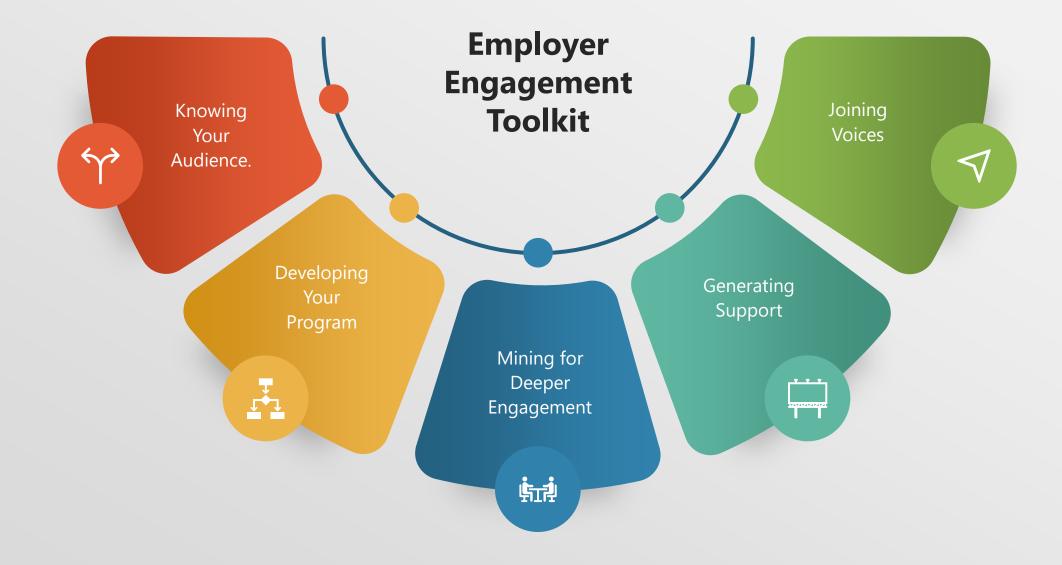


#### **The Need for Strategic Thinking**



#### Ways Businesses Can Help





#### **The Process Starts Internally**



#### **Knowing Your Audience**

- Who hires the graduates/completers?
- Who provides intel on evolving needs of businesses in the region?
- Who assists in building industry-informed programs?
- Do you know who provides outreach to employers?
- Do you know how information from employer outreach is gathered and shared?



## POSTER ACTIVITY

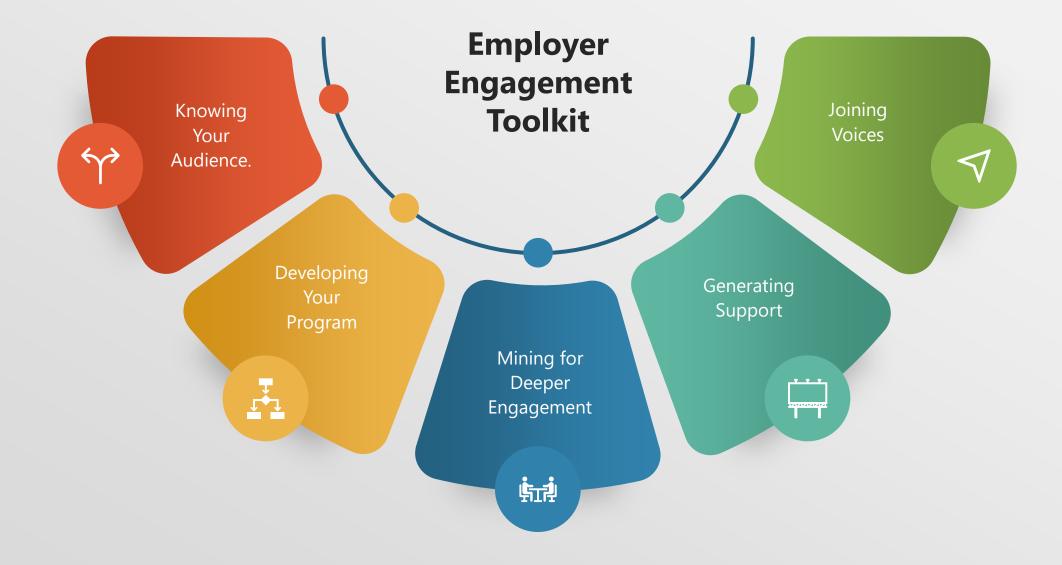
## Employer Engagement Goals



## **Poster Activity**

Names of employers with whom you currently have established working relationships and names of employers with whom you need to have working relationships.

- How can you help them?
- How can they help you?



#### **Developing Your Program**

- Skills Alignment to Market Demand
- Source for Future Industry Trends
- Composition of Advisory Council
- Benefits for All Stakeholders



BUSINESS & INDUSTRY LEADERSHIP TEAM

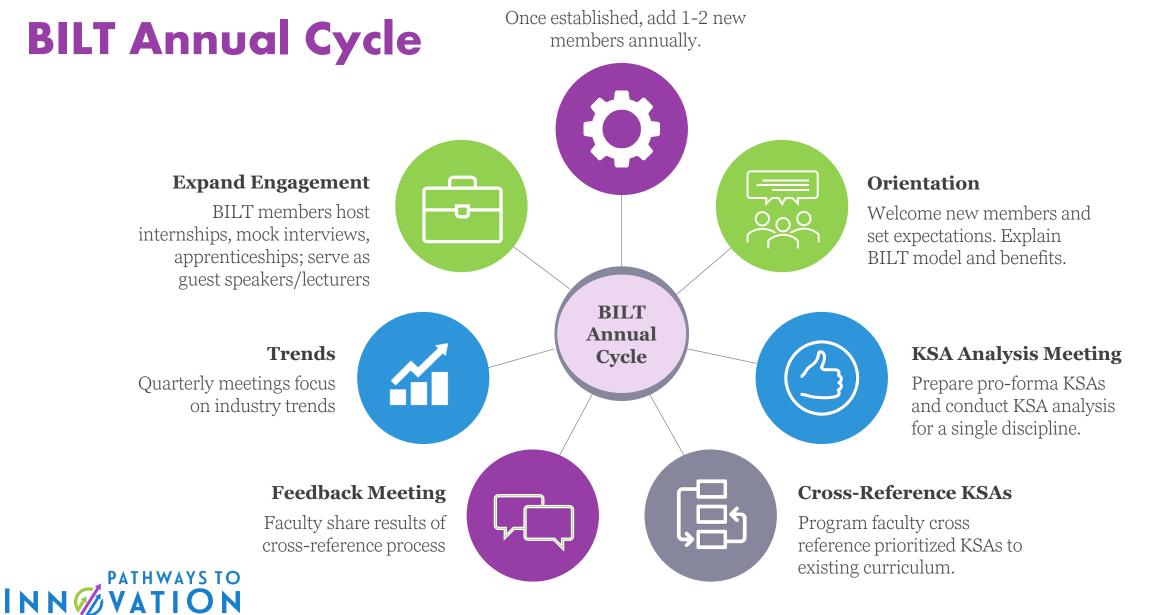
BILT

#### INN WAYS TO VATION





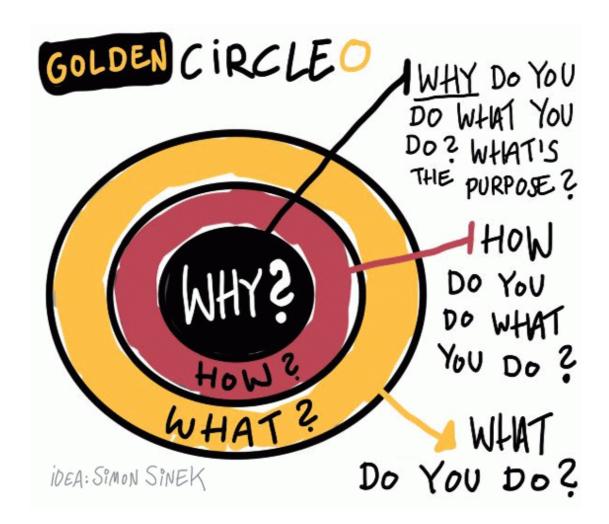




#### **Recruit BILT Members**

## **Communicate the Why**

- Approach potential partners with your value proposition
- Lead with the outcome and benefits for the community and the partner, not for you
- Golden Circle principle



## **Sample Elevator Pitch**

The (name of program) helps to prepare graduates to be workready employees who are armed with relevant workplace skills. Our goal is to ensure our students are aware of companies like yours and the opportunities that can be provided for fulfilling careers.

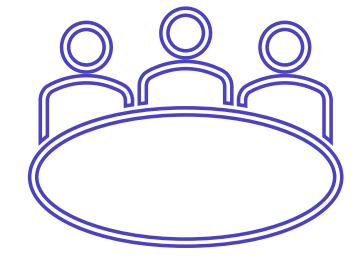
With your engagement we can align our curriculum to the specific skills identified by local industry and provide real world opportunities to our learners. We value your willingness to be guest speakers, provide work-based learning options, coordinate tours of your company, provide scholarships, etc., and are asking for your help/support with XXXX (specific ask).

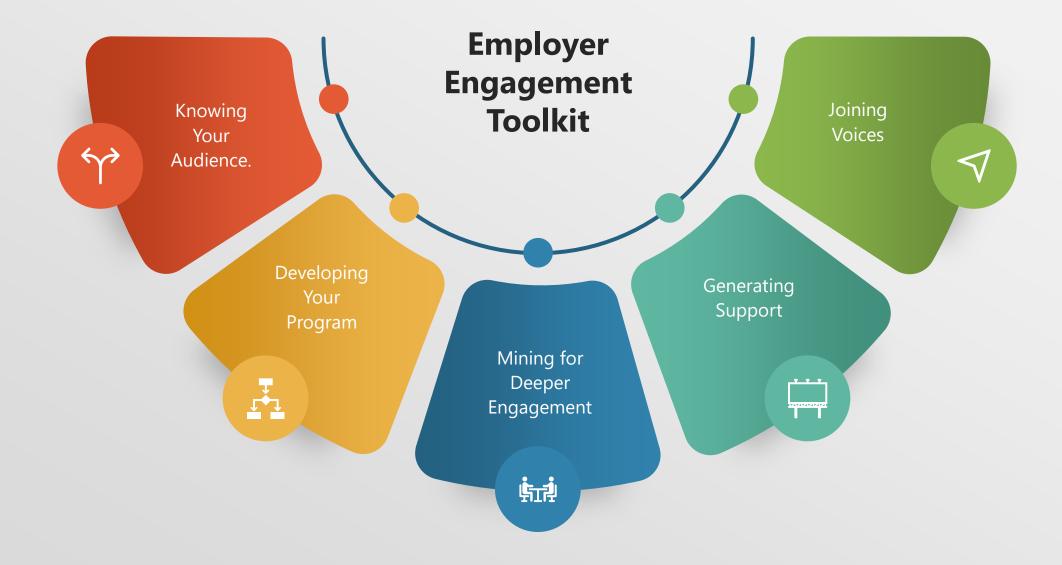
#### ACTIVITY

#### Writing Your Elevator Pitch Worksheet



# Share and Discuss



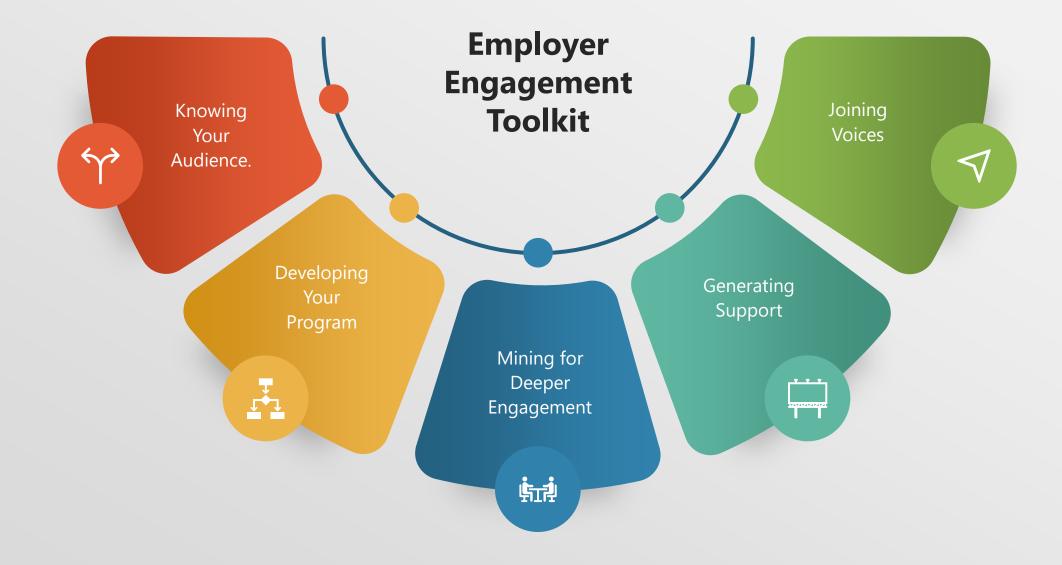


#### **Deepening Engagement**

- Tiered approach to employer engagement
- Strategies to increase breadth of engagement
- Testimonials
- Recognition

#### **Employer Engagement Worksheet**

EMPLOYER	EMPLOYER CONTACT	Advisory Committee	Career Fair Participant	Tours for Students	Hires Grads	Work- based Learning	Donates supplies / equip	Scholarship Donor	Non-Credit Incumbent Worker Training	Internships	Apprenti ce- ships	Other
Acme Tool & Die	John Smith		Х		Х			Х				
Foremost Machining	William Jones	х			х						Х	



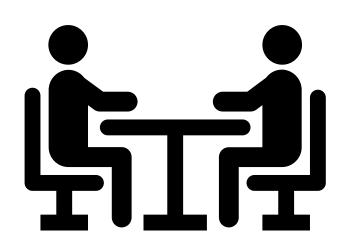
### **Generating Support**

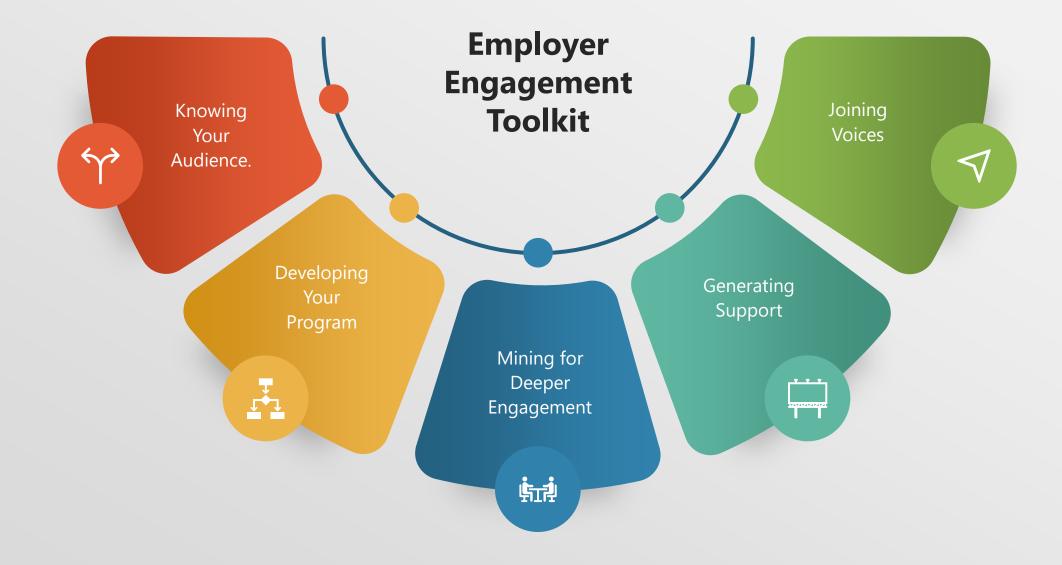
#### **Engaged employers may:**

- identify areas where new or updated equipment is called for
- connect you to their suppliers for discounts
- consider donating equipment to help in preparing your students, their future employees
- be open to sponsorship of competitions, clubs, and camps
- cover the cost of industry-recognized credentials/assessments to alleviate the financial burden on students
- provide faculty externship opportunities

#### Ways to Generate Support

- 1. Ask about employer 'pain points and brainstorm how those can be addressed.
- 2. Recognize employers who interact with your organization
- 3. Be ready to tell the story of increased company visibility gained through supporting programs with equipment, materials, scholarships, and sponsorship.





### **Joining Voices**

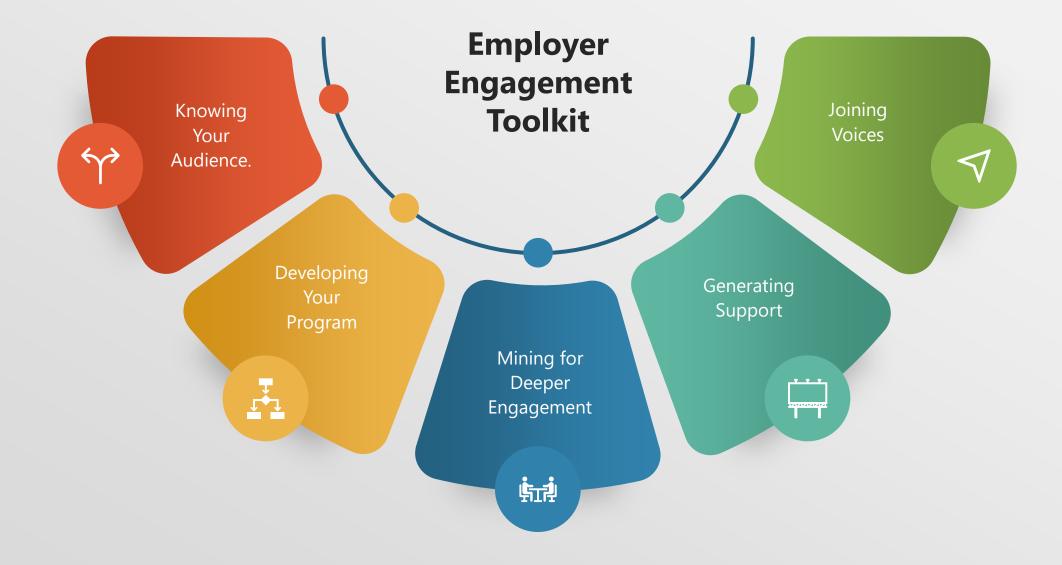
- Collaborating on Shared Issues
  - Skills
  - Training
  - Technology
  - Apprenticeship
- Moving from Partner to Advocate
  - Legislative events
  - Economic Forums
  - Local, State and National



#### Ways to Join Voices

- 1. Identify employers in your area who hold leadership positions in their industries.
- 2. Use the information gathered to initiate conversations at the CEO and community leader level.
- 3. Brainstorm the initiatives your employers are passionate about and determine whether there are intersections where you can assist them, and they can assist you.





#### **Comprehensive Resource:**



You are here: / Home

#### Home

**Using This Toolkit** 

Knowing Your Audience

**Developing Your Program** 

Mining for Deeper Engagement

**Generating Support** 

**Joining Voices** 

Contact Us

#### Introduction

In a time when information is critical to success and budgets are tied to outcomes, the need for strategic employer engagement with colleges has never been greater. No longer can programs thrive with limited input from local employers. All community and technical colleges must stay informed of—and respond to—industry-specific trends that impact skill sets, national standards, and credentials.

## Action Planning



#### Local Action Plan

Goal, Objective, Priority:	Action Steps:	Lead:	Intended Results:	Timeline:	Notes:						
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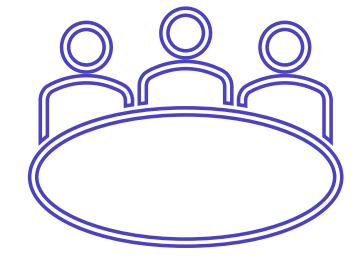
CORD.org

#### ✓ Use Action Plan Template at your table

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# Share and Discuss







Advancing Credentials THROUGH Career Pathways

## Self Check #3

#### Designing Career Pathways



# Building Bridges Instead of Walls

Align	Prepare	Support	Educate/Train	Organize	Enable	Help
Align with the skills needed by industries in the state or regional economy;	Prepare individuals to succeed in a range of education options, including apprenticeships;	Include counseling to support an individual in achieving the individual's education and career goals;	Include, as appropriate, concurrent education and training opportunities for a specific occupation or occupational cluster;	Organize education, training, and support services to meet individual needs and accelerate educational and career advancement;	Enable individuals to attain a high school diploma or equivalent, and at least one recognized postsecondary credential;	Help individuals enter or advance within an occupation or occupational cluster.

## **Career Pathway Definition** (WIOA/Perkins)

### Pathways to Career Readiness and Advancement

### **Programs of Study** and **Career Pathways**

share many of the same attributes. The two terms are used interchangeably in many state and local applications. Both are defined in Federal Law.

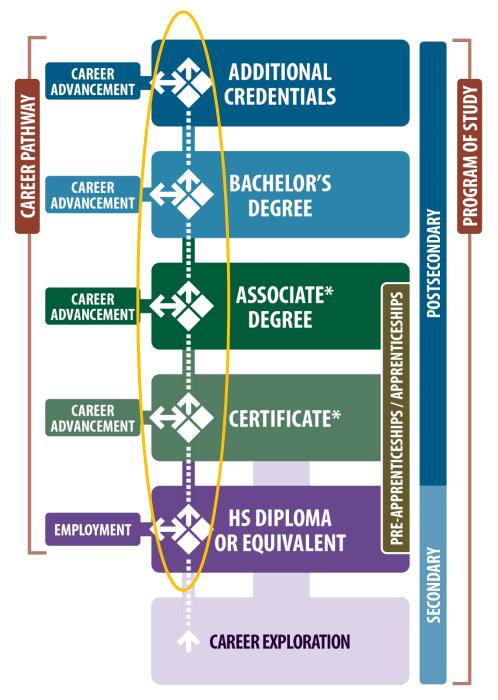


## STACKABLE CREDENTIALS

At these milestones the learner may advance to the next-higher-skill job in the sector for which they have trained, and/or continue in or reenter the learning pathway to pursue additional credentials.

\*These stackable credentials may:

- Include preparation for industry certifications.
- Articulate to bachelor's degree programs.
- Be obtainable by HS students through dual credit.



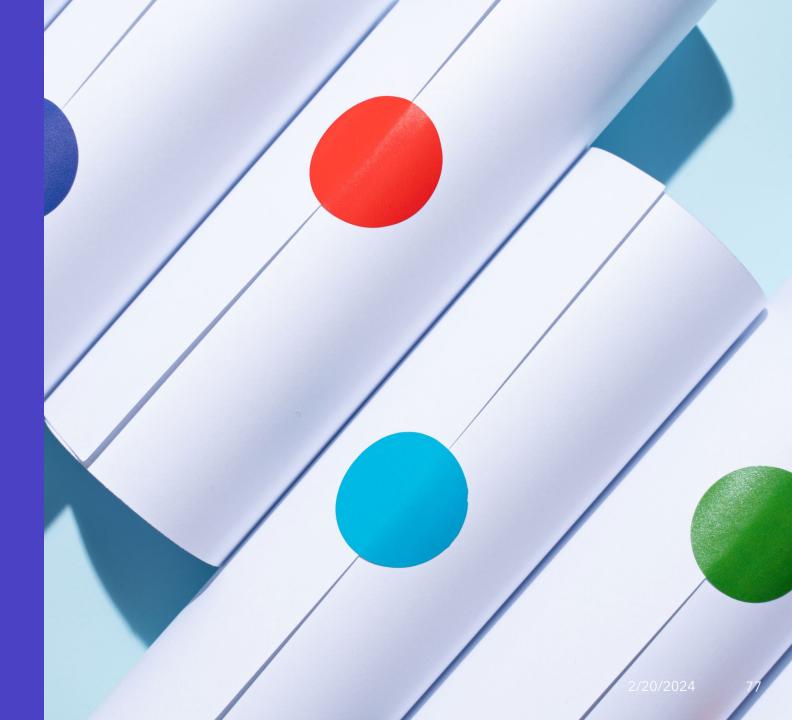
## Leading Career Pathways

## Day 2

CENTER FOR OCCUPATIONAL RESEARCH & DEVELOPMENT



## <u>Stackable</u> <u>Credentials</u>



## **Stackable Credentials Initiative**





## **Three Essential Components:**

- 1. Engaging employers in strategic and sustainable ways
- 2. Building career pathways based on industry-validated stackable credentials
- 3. Supporting completion through non-credit/credit alignment

## **Pathways to Credentials**

**US ED OCTAE Initiative:** Build capacity of colleges to improve CTE credential attainment rates by offering **stackable credentials**, a series of incremental milestones, on the path to degree completion. Stackable credentials are...

- Developed through active employer engagement
- Responsive to workforce needs of region
- Link educational certificates to industry certifications
- Support diverse groups of learners
- Provide multiple entry and exit points
- Support earn-and-learn models through flexible scheduling
- Provide credentials with labor market value on the path to a degree

# Career Pathways Embedded with Stackable Credentials



### Provide flexibility for **students**



Meet the evolving skill needs of **employers** 



Improve the ability of educational institutions and communities to increase credential attainment



## Give educational institutions

tools for continuous upskilling

## Why Pathway Maps?



- To help learners of all ages **understand the opportunities** available to them to learn, earn, and realize success in the career path of their choice
- To identify entry points and exit points aligned to credential attainment and advancing levels of employment
- To convey that a **seamless pathway** of stackable credits and credentials is not only possible, but critical to success in today's labor market

Mapping Career Opportunities & Economic Mobility



• You're creating a visual story depicting the pathway

• What career opportunities does it comprise?

- What postsecondary credentials can you earn?
- What industry certifications will the pathway prepare you for?

Who Benefits from Pathway Maps?

### Students

- Provides information students need for guided learning pathways – on and off ramps
- Identifies program outcomes relative to potential employment opportunities and wages, as well as program duration and stackable credentials
- Depicts career growth alongside education path

## **Employers**

- Identifies multiple entry points for existing employees to upskill
- Validation of skills by industry means graduates are prepared to meet employer needs

## Faculty

- Program and career information in one place at-a-glance
- Employer-validated pathways relative to occupations and wages
- Clear depiction of completion options (certificates, diplomas and degrees) within a pathway

## **Employer Engagement**

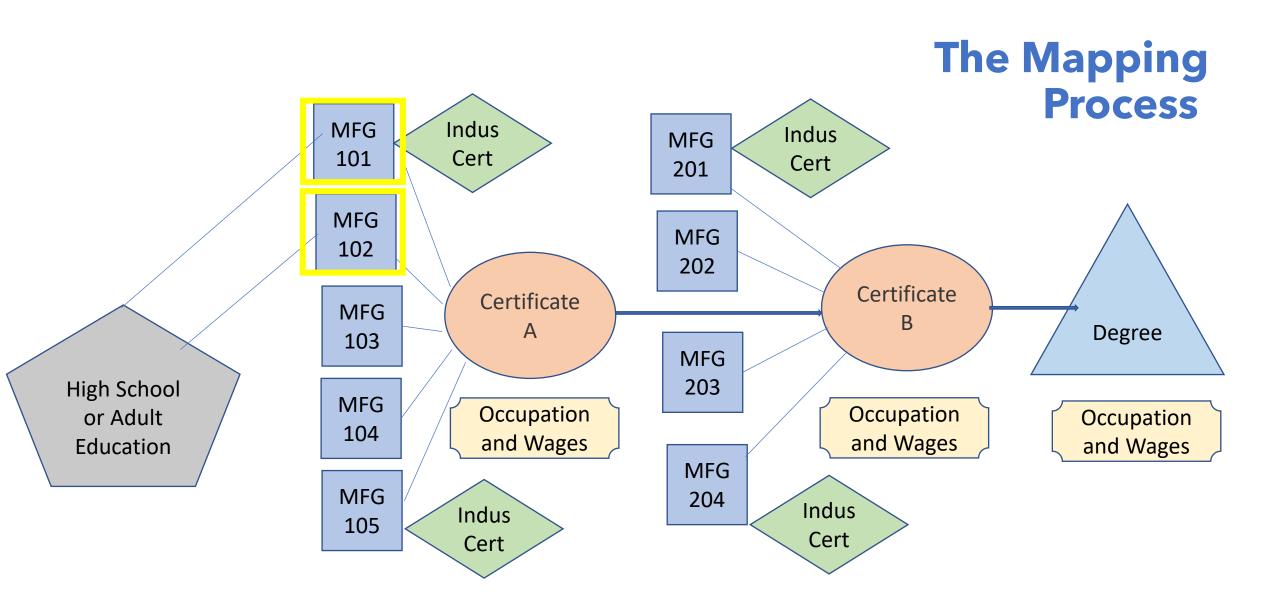
➤Work with employer partners to:

- Define job requirements
- Map the structure of jobs to certificates and degrees
- Identify related industry certifications
- Identify career advancement levels within the pathway

(i.e. Certificate A = Job Title X, Certificate B = Job Title Y, Degree = Job Title Z)

≻Gather wage data for each job title

➢ Repeat process annually



## Cybersecurity Pathway

#### Earn Credit for What You Already Know:

Through prior learning assessment (PLA), demonstrate mastery of core skills for college credit, or with industry certifications.

#### Basic Networking & Security Certificate

20 credits/aligns with Security+, Network+ certifications Core skills: networking, information assurance, network security, cloud computing

See Program Details

#### **Career Opportunities**

Entry wages: \$18 per hour With experience: \$27 per hour Potential positions: Computer User Support Specialist Computer Network Support Specialist

Learn more at:

#### IT Tech & Support Certificate

22 credits/aligns with A+ certification Core Skills: operating systems, project management, help desk skills, A+ technician skills

See Program Details

#### Career Opportunities

Entry wages: \$18 per hour With experience: \$27 per hour Potential positions: Computer User Support Specialist Help Desk Technician

#### Learn more at:

My Colorado Journey

#### Cybersecurity A.A.S.

60 credits/aligns with Security+, Network+, Cloud+, Linux+ certifications Core Skills: networking, information assurance, network security, cloud computing See Program Details

#### Career Opportunities

Entry wages: \$25 per hour With experience: \$35 per hour Potential positions: Cybersecurity Analyst Computer Network/Systems Administrator Tech Support Engineer

Learn more at: My Coloradio Journey

#### Computer Science/ Engineering with Cybersecurity concentration B.S.

#### 128 credits

Core Skills: computer architecture, programming and system analysis, cryptography, security system design, risk and policy analysis, investigation techniques, troubleshooting

#### **Career Opportunities**

Entry wages: \$30 per hour With experience: \$50+ per hour Potential positions: Computer Network/Systems Architect Cybersecurity Engineer Business/Systems Analyst

Learn more at:

🚺 My Colorado Journey



## What to Include

Academic Credentials Within the Pathway (certificate, diploma, associate degree) and # of Credits

## Program Duration of Each Credential

## Related Industry Certifications

Employment Opportunities at Exit Points Job Titles / Wage Range

Credit for Prior Learning (all types) Articulated 4-year Programs

## Who Should Participate?



## **Inspiration from Sample Pathway Maps**



Review pathway map examples from other programs/ institutions. Determine best flow of info for your map's target audience(s) and identify visuals/ colors that enhance understanding of pathway components/ personal options.

Work with marketing /communication staff to design map graphics that can be used across disciplines.

3

Ask students, parents and employers to review for clarity.



## **Career Pathways**

Health Service Management Associate in Science

<b>Prior Credit</b> High School Career Pathways Certificate	<b>Prior Credit</b> Technical College Certificate	College Credit Certificate	College Credit Certificate	Associate Degree	Bachelor Degree
Administrative Office Specialist Allied Health Assisting Applied Cybersecurity Applied Information Technology Business Management & Analysis Digital Design International Business Legal Administrative Specialist Nursing Assistant Web Development Industry Certifications Certified Medical Administrative Assistant (CMAA)	Accounting Operations Administrative Office Specialist Medical Assisting Practical Nursing Industry Certifications Certified Medical Administrative Assistant (CMAA) Registered Medical Assistant (RMA)	Medical Information Coder/Biller (37 credit hours) Industry Certifications CCA; CCS; CCS-P; CPC Career Average Cost of Program \$4,100.00 Typical Starting Positions Medical Records/Health Information Technicians, Insurance/Billing Specialist, Coding Specialist, Coder/Biller, Insurance Specialist Coder/Biller, Insurance Specialist	Medical Office Management (34 credit hours) Career Average Cost of Program \$3,750.00 Typical Starting Positions Medical Secretary, Medical Secretary, Medical Receptionist, Insurance Clerk, Billing Clerk Average Starting Salary \$15.67 hourly	Health Services Management (60 credit hours) Industry Certifications CAHIMS; CMM Career Average Cost of Program \$6,600.00 Typical Starting Positions Medical Office Manager, Health Services Department Supervisor, Billing Supervisor, Billing Supervisor, Revenue Cycle Analyst Average Starting Salary \$18.00 hourly	Strategic Leadership (120 credit hours) Career Average Cost of Program \$7,200.00 Typical Starting Positions Medical Practice Manager, Health Services Department Manager, Health Services Department Manager, Human Resouce Specialist, Entrepreneur Average Starting Salary \$25.66 hourly

Learn more at www.LSSC.edu/academics



## **Career Pathways**

Health Service Management Associate in Science

Prior Credit Technical College Certificate	College Credit Certificate	College Credit Certificate	Associate Degree	Bachelor Degree
Accounting Operations Administrative Office Specialist Medical Assisting Practical Nursing Industry Certifications Certified Medical Administrative Assistant (CMAA) Registered Medical Assistant (RMA)	Medical Information Coder/Biller (37 credit hours) Industry Certifications CCA; CCS; CCS-P; CPC Career Average Cost of Program \$4,100.00 Typical Starting Positions Medical Records/Health Information Technicians, Insurance/Billing Specialist, Coding Specialist, Coding Specialist, Specialist, Coding Specialist, Coding Specialist, Specialist, Coding Specialist, Coding Specialist, Specialist, Specialist, Specialist, Coding Specialist, Specialist, Coding Specialist, Coding Specialist, Specialist, Specialist, Coding Specialist, Coding Specialist, Specialist, Coding Specialist, Specialist, Coding Specialist, Coding Specialist, Specialist, Specialist, Specialist, Coding Specialist, Specialist	Medical Office Management (34 credit hours) Career Average Cost of Program \$3,750.00 Typical Starting Positions Medical Secretary, Medical Secretary, Medical Secretary, Medical Receptionist, Insurance Clerk, Billing Clerk Average Starting Salary \$15.67 hourly	Health Services Management (60 credit hours) Industry Certifications CAHIMS; CMM Career Average Cost of Program \$6,600.00 Typical Starting Positions Medical Office Manager, Health Services Department Supervisor, Billing Supervisor, Billing Supervisor, Revenue Cycle Analyst Average Starting Salary \$18.00 hourly	Strategic Leadership (120 credit hours) Career Average Cost of Program \$7,200.00 Typical Starting Positions Medical Practice Manager, Health Services Department Manager, Health Services Department Manager, Revenue Cycle Supervisor/Manager, Human Resouce Specialist, Entrepreneur Average Starting Salary \$25.66 hourly

Learn more at www.LSSC.edu/academics



## **Career Pathways**

Health Service Management Associate in Science

Prior Credit Experience/ Certificate	College Credit Certificate	College Credit Certificate	Associate Degree	Bachelor Degree
Prior Experience Transfer College Credit Competency Based Credit Military Experiences Industry Certifications AHIMA - any AAPC - any CMM CMOM CAHIMS CMA/RMA	Medical Information Coder/Biller (37 credit hours) Industry Certifications CCA; CCS; CCS-P; CPC Career Average Cost of Program \$4,100.00 Typical Starting Positions Medical Records/Health Information Technicians, Insurance/Billing Specialist, Coding Specialist, Coder/Biller, Insurance Specialist Average Starting Salary \$15.67 hourly	Medical Office Management (34 credit hours) <u>Career</u> Average Cost of Program \$3,750.00 Typical Starting Positions Medical Secretary, Medical Receptionist, Insurance Clerk, Billing Clerk Average Starting Salary \$15.67 hourly	Health Services Management (60 credit hours) Industry Certifications CAHIMS; CMM Career Average Cost of Program \$6,600.00 Typical Starting Positions Medical Office Manager, Health Services Department Supervisor, Billing Supervisor, Revenue Cycle Analyst Average Starting Salary \$18.00 hourly 33cr Coder/Biller 34cr Office Mgmt	Strategic Leadersh (120 credit hours Career Average Cost of Program \$7,200.00 Typical Starting Position Medical Practice Manager, Health Services Department Manage Revenue Cycle Supervisor/Manag Human Resouce Specialist, Entrepreneur Average Starting Salary \$25.66 hourly

Learn more at www.LSSC.edu/academics

#### **Academic Awards**

- Phlebotomy Certificate
- Health Unit Coordinator (HUC) Certificate
- Practical Nursing (LPN) Diploma
- Medical Assisting (MA) AAS Degree

### Industry Credentials

- CPR
- Nursing Assistant (CNA or HHA)
- Trained Medication Aid (TMA)

4	SEMESTER 1	SEMESTER <b>2</b>			
YEAR 1	COURSES Health Care Core Foundations (Nursing, MA, & HUC Prereg)	COURSES Medical Terminology (Nu	sing, MA, Phieb, & HUC Prerequisite)		
SUMMER	HEALTH CARE EXP	LORATION WITH CPR			
	SEMESTER 1	SEMESTER 2			
YEAR <mark>2</mark>	COURSES Anatomy (Nursing & MA Prerequisite) English Composition (Nursing & MA Prerequisite)		COURSES Lifespan Psychology (MA & Nursing Prerequisite) Interpersonal Communication (MA & Phieb Prerequisite)		
	APPLY TO I	DESIRED PATH			
SUMMER	NURSING MEDICAL ASSISTING	PHLEBOTOMY	HEALTH UNIT Coordinator		
	Nursing Assistant (CNA & HHA) Orientation	051150555 0			
(FAD 9	SEMESTER 1	SEMESTER 2			
YEAR 3	Foundation of Nursing Nursing Interventions Clinical Foundations - Part 1	Clinical Foundations - Pa Medication Administratio Pharmacology for Nursin	n		
	Medical Office Procedures Computer Software for College	Electronic Health Records Nutrition/Healthy Living			
10, 21, 11, 21, 10, 000	Introduction to Phlebotomy	Phlebotomy Skills Phlebotomy Internship (3 weeks/100 hrs)			
LASTMODIFED: J	Medical Office Procedures	Electronic Health Records Health Unit Coordinator Procedures			
	i complete one additional semester of classes at SCC to earn their Diploma. udents will complete one additional year of classes at SCC to earn their AAS degree.	TMA, HUC & PHLI	CAREER READY		







## Allina Health 🔆



## **Program Benefits**



## • Time & Cost Savings

Students may earn up to 36 college credits while in high school, which saves time & tuition. Can earn a degree in 1-2 semesters post-high school

### • Early Entry into Workforce

Students who complete Health Unit Coordinator, Phlebotomy, or CNA (with or without TMA) may enter the workforce

### • Year 1 Data

- 56 total students enrolled in Year 1 courses
- 22% are Students of Color
- 89% earned an "A" or "B" in the Year 1 Semester 1 course



## IT - Computer Support Specialist

Previous Credit

There are many opportunities, both in high school and through previous college, work, and/or military experience, to earn credit at Gateway.

**PATHWAY** GATEWAY TECHNICAL COLLEGE

For more information about earning credit in high school and opportunities for credit for prior learning, please see reverse side.

#### Technical Diploma

IT-Computer Support Technician (32 Credits)

Potential Jobs: - Personal Computer Technician - Help Desk Tier 1

Median Income\*: \$18.63 per hour \$38,750 annually \*Based on locally reported wage data.

Students who complete this program are prepared to earn industry-recognized certifications, including: - CompTIA A+

#### Associate Degree

IT-Computer Support Specialist (62 Credits)

Potential Jobs: - Hardware Analyst

- Computer Support Specialist

- Help Desk Tier 2 - Computer User Support

Analyst

Median Income\*: \$22.00 per hour \$45,760 annually \*Based on locally reported wage data.

Students who complete this program are prepared to earn industry-recognized certifications, including: - ITIL - IT Infrastructure Library - ITSM - IT Service Management

#### Career

Students are prepared to enter their career field at any point along the pathway and advance as they complete higher-level credentials.

#### Bachelor's Degree

Transfer up to 62 credits via existing articulation agreements with colleges such as:

-Cardinal Stritch University -Carthage College -Herzing University -Lakeland University -Ottawa University -UW-Parkside (A to B agreement) -UW-Stout

Salary and employment data courtesy of EMSI.

gtc.edu/computer-support-specialist





#### Have questions or need assistance with getting started?

Gateway's New Student Specialists are ready to help. Call 1-800-247-7122 or stop into any Student Services Center to make an appointment or register for an upcoming new student event.

#### **Elkhorn Campus**

400 County Road H Elkhorn, WI 53121

#### Kenosha Campus

3520 30th Ave. Kenosha, WI 53144

#### **Racine Campus**

1001 S. Main St. Racine, WI 53403

## IT - Computer Support Specialist

### **Credit for Prior Learning**

#### Experience Pays! You've been there .... You've done that . . . Let us give you credit for it!

Gateway Technical College recognizes you have knowledge and skills gained through previous educational, life and work experiences. We want to help you receive credit for those experiencessaving you time, money and helping you enter your new career more quickly.

There are various ways to earn credit including Degree Course Substitution, Prior Learning Assessment and Transfer Credit, Credit for Prior Learning opportunities for this program include:

107-011 IT in Business

107-193 IT Essentials

154-119 System Software Support

154-113 IT Apps Server & Support

### Earn College Credit in **High School**

Get an edge by earning college credit before you graduate and save money at the same time.

Get started at

Gateway today!

Visit gtc.edu to request information

or to apply.

There are many ways to earn college credit while you're still in high school, including transcripted and advanced standing credit, Start College Now and youth apprenticeship. Suggested courses to take in high school for this program include:

#### 107-011 IT in Business

107-193 IT Essentials

150-145 IT Scripting



#### **OCC CAREER PATHWAY ENVIRONMENTAL SUSTAINABILITY & INDUSTRIAL HYGIENE**

These OCC programs are designed to prepare students for careers in the field of environmental science, which is concerned with sustainability of environmental resources, monitoring humanity's impact on the Earth, and solving environmental problems. Students graduating from these programs might work in environmental education centers, public relations firms, testing labs, environmental research organizations, acotourism, food/beverage manufacturing, waste management companies, government agencies and consulting.

PROGRAM PRE-	Certificate		Associate Degree	Careers
REQUISITES: Students who have completed HS Chemistry and Algebra II and who do not need any remedial mathematics will be eligible to take CHEM 181 with no restrictions.	Industrial Hygiene/Hazardous Materials Management Certificate (22 Credits) 5 academic courses & short-term courses Potential Jobs: ~ Occupational Health and Safety Technician, Environmental Field Technician, and Industrial Hygiene Technician	ſ	AAS Technical Studies: Industrial Hygiene/ Haz-Mat Option (60 credits)	Students are prepared to enter their career field at any point along the pathway and advance as they complete higher level credentials (industry, certificate and degree programs). Industrial Hygienist in New Jersey pay ranges from \$70,522 to \$131,420 See https://www.salary.com/tools/salary- calculator/industrial-hygienist/nj?
PRIOR LEARNING CREDIT: There are opportunities both in high school and through previous college, work, military experience and achievement of industry certificates to earn credit at OCC ~ Workers with OSHA cards	Students who complete this program are prepared to earn industry-recognized certifications, including NIOSH 582, OSHA 30 Construction or General Industry, OSHA Hazwhoper 40, Lead Inspector, Risk Assessor, and Asbestos Inspector. Students will also obtain membership as a IHHM Student CHHM member. Sustainability Certificate (17 Credits) 5 academic courses		AS Environmental Studies Industrial Hygiene/ Haz-Mat Option (60 credits)	edu=ediev3&drpt=DR01&rptto=RL03&yrs=0 https://www.bls.gov/ooh/healthcare/occupational-health-and- safety-specialists-and-technicians.htm https://www.salary.com/research/salary/benchmark/industrial- hygienist-salary/nj Bachelor's Degree
<ul> <li>receive credit for some lab components</li> <li>Students can also complete a college exam and performance component</li> <li>Standardized test such as CLEP, DSST, TECEP, AP</li> <li>For additional detail contact Eileen Schilling at eschilling@ocean.edu.</li> </ul>	<ul> <li>Potentail Jobs:         <ul> <li>Environmental Technician and Sustainability Auditor</li> </ul> </li> <li>Students who complete this program are prepared to earn industry-recognized certifications, including LEED Accredited Professional (AP) and GRI Professional Certification. These certifications require additional outside training and an exam.</li> <li>Students will also obtain membership as a IHHM Student CHHM member.</li> </ul>	l	AAS Environmental Studies: Sustainability Option (60 credits)	Transfer up to xx credits via existing articulation agreements with other four-year colleges and universities. Visit https://www.ocean.edu/student-services/start-here-finish- there-transfer-agreements/ for further information on these agreements. Students pursuing the Environmental Studies degree can transfer into majors such as Environmental Studies or Environmental Science. Many colleges offer opportunities for transfer both in and out of state. Students are encouraged to work closely with OCC faculty and Advising Transfer Services. Students planning to transfer to a four-year institution in NJ can explore the "Transfer Programs" feature on NJ Transfer www.njtransfer.org.

Institute of Hazardous Materials Management's (IHMM)'s Student Certified Hazardous Materials Manager (ST/CHMM ®) credential recognizes students who wish to demonstrate their development of knowledge and skills in hazardous materials management while pursuing their undergraduate degree. The National Institute for Occupational Safety and Health (NIOSH) is responsible for conducting research and making recommendations for the prevention of work-related injury and illness. The NIOSH 582 certification ensures students are capable of correctly analyzing PCM air sampling in accordance with NIOSH analytical methods.

## NORTH CENTRAL TEXAS COLLEGE

## **Electrical/Industrial Mechanics Career Pathway**

Indusmechanics.nctc.edu

Career Overview	Short-term Certificates	Level 1 Certificates	AAS Degree	Bachelor's Degree
Opportunity exists working as an electrician, in manufacturing or in industrial mechanics. Each step in the pathway can lead to industry certifications and licensing. Student can work in many of these fields while attending classes and working toward additional certifications or a degree.	<ul> <li>Electrical Skills Course</li> <li>Self-paced online</li> <li>Potential starting wage is \$14+ per hour</li> <li>Potential 3 hrs credit toward Electrical or Industrial Mechanics Level 1 Certificate</li> <li>Industry certification through SACA C-201</li> </ul>	<ul> <li>Electrical Certificate</li> <li>15 credit hours</li> <li>Potential starting wage is \$14+ per hour</li> <li>Educational credit toward electrical journeyman licensing through TDLR</li> <li>Industry certification through NC3</li> </ul>	<ul> <li>AAS Industrial Mechanics</li> <li>60 credit hours</li> <li>Potential starting income \$18 per hour</li> <li>Educational credit toward electrical journeyman licensing through TDLR</li> <li>OSHA certification</li> <li>Industry certifications through NC3</li> </ul>	The AAS degree is part of the North Texas Community College Consortium Transfer Collaborative and can lead to BAAS programs at numerous universities. Visit the site below and input the program title and college to check a pathway: <u>NTXCCC</u>
Other Credit	Mechatronics and Industrial Automation Technician Course:	Industrial Mechanics Certificate	NG5	LEGEND OF TERMS SACA Smart Automation Certifications
May be awarded from the following areas: Non-credit training Industry certifications College credit Military service Work experience Technical schools	<ul> <li>Self-paced online</li> <li>Potential starting wage is \$18+ per hour</li> <li>Potential 6 hrs credit toward Electrical or Industrial Mechanics Level 1 Certificate</li> <li>Industry certification through SpaceTEC® and CTS.</li> </ul>	<ul> <li>30 credit hours</li> <li>Includes Electrical certificate</li> <li>Potential starting wage is \$16+ per hour</li> <li>Educational credit toward electrical journeyman licensing through TDLR</li> <li>Industry certifications through NC3</li> </ul>		<ul> <li>CTS Credential Testing Services</li> <li>TDLR Texas Department of Licensing &amp; Regulation</li> <li>NC3 National Coalition of Certification Centers</li> <li>OSHA Occupational Safety &amp; Health Administration.</li> <li>AAS Associate of Applied Science</li> </ul>
<ul><li>Study abroad</li><li>Dual Credit</li></ul>	Questions? ACE@nctc.edu	Questions? industech@nctc.edu	Questions? industech@nctc.edu	BAAS Bachelor of Applied Arts & Sciences



### Industrial Systems Career Pathway

#### EDUCATION GOALS

Associates in Applied Science Degree (AAS)

New York Stress Technology

OCCUPATIONS INCLUDE...

- Instrument & Electrical (I&E) Technician
- Maintenance Technician
- Industrial Mechanic

MEDIAN ANNUAL SALARY RANGE IN NC

\$40,710 - \$58,460

Career & College Promise Credit: 13

PACE Credit: 3

	HIGH SCHOOL PLAN								
		REQUIRED COURSE SEQUENCE				REQUIRED	CTE CONCENTRATOR	SUPPLEMENTAL	
AN	GRADE	ENGLISH	MATHEMATICS	SCIENCE	SOCIAL STUDIES	ELECTIVES	ELECTIVES	CTE COURSES	
Ч	9	English I	Math I	Earth Science	World History	Health/PE		Career Management	
NOIL	10	English II	Math II	Biology	American History I			Microsoft Word and Powerpoint	
EDUCAT	11	English III	Math III	Physical Science OR Chemistry	American History II			Project Management I CTE Advanced Studies	
SECONDARY EDI	12	English IV	Advanced Mathematics course where Math III is a prerequisite	Other Science Elective	Civics/Economics		FTCC High School Connections - Basic Mechanical Maintenance	CTE Advanced Studies CTE Internship CTE Apprenticeship	

FAYETTEVILLE TECHNICAL COMMUNITY COLLEGE PLAN – Industrial Sy	istems Technol	O G V
TATETTETEE TECHNICAE COMMONTTE COLLEGE TEAM INdustrial Sy	accina reenno	

N PLAN	Fall 1	ACA120-Career Assessment OR ACA122-College Transfer Success	BPR111-Print Reading	CI5111-Basic PC Literacy	ELC112-DC/AC Electricity	MNT110-Intro to Maint Procedures	WLD112-Basic Welding Processes		
IDARY EDUCATION	Spring 1	ENG110-Freshman Composition OR ENG111-Writing and Inquiry	ELC128-Intro to PLC	MAC141-Machining Applications I	PHY121-Applied Physics I	PLU111-Intro to Basic Plumbing			
	Summer 1	BPR115-Elc/Fluid Power Diagrams	HYD110-Hydraulics/ Pneumatics I	MNT111-Maintenance Practices					
POST-SECONDARY	Fall 2	COM120-Intro Interpersonal Com OR COM231-Public Speaking	ELC228-PLC Applications	ISC110-Workplace Safety	WBL110-World of Work	WLD115-SMAW (Stick) Plate			
POS	Spring 2	ELC117-Motors and Controls	MNT220-Rigging and Moving	MNT230-Pumps & Piping Systems	Humanities/Fine Arts Elective	Social/Behav Science Elective			



Fayetteville, NC

### i•TECH Isothermal Engineering & Technology Academy

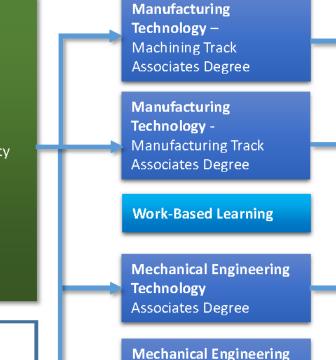
First Year	First Year					
Advanced Technology Certificate						
CCP Certificat	e Pathway					
(15 Credit Ho	urs)					
DFT 151	CADI					
EGR 110	Intro to Engineering					
	Technology					
HYD 110	Hydraulics					
MAC 141	Machine Applications					
MEC 161	MFG Processes					
ACA 115	Success & Study Skills					

#### Second Year

#### Advanced Technology Diploma

CCP Diploma Pathway (37 Credit Hours combined with certificate)

CIS 110Intro to ComputersDFT 154Intro to Solid ModelingENG 111Writing and InquiryISC 121Environmental Health & SafetyISC 132QualityMAT 121Algebra/Trigonometry IMEC 180Engineering Materials



Full-Time College Year

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Mechanical Enginee Technology -Mechatronics Track Associates Degree

Mechanical Engineering Technology -Mechanical Drafting Track Associates Degree

#### **Additional Credentials and Activities**

"Portable" Industry Credentials OSHA Card FANUC Robotics Certification Tooling-U Certifications ACT Work Keys NCRC Career Exploration Career Research Guest Speakers Workplace Tours Career-Related Projects Community Service Internship options in final year

## Name of Career Pathway

### <Program Hyperlink>

Prior Credit	Certificate	Additional Certificate or Diploma	Associate Degree	Bachelors Degree
Use this space to provide information about the opportunities your institution provides for students to earn college credits while in high school, or to earn credit for prior learning such as previous college, work, and/or military experiences.	Use this space to identify certificates within this pathway that stack toward the degree. <b>For each, list:</b> • Name of certificate • # of college credits • Potential job and median income • Aligned industry certification(s)	Use this space to identify additional certificates and/or a diploma that stacks toward the degree. <b>For each, list:</b> • Name of certificate/diploma • # of college credits • Potential job and median income • Aligned industry certification(s)	Use this space to describe the remaining credits in the pathway sequence needed to earn an AS or AAS degree. For the degree, list: • # of college credits • Potential job and median income • Aligned industry certification(s)	Example: Bachelors Degree in at University
<b>Career</b> Provide details or links to external resources for further exploration on career opportunities in this pathway		CORD.org		

## **Name of Career Pathway**

### <program link>

Prior Credit	Adult Education	Certificate	Associate Degree	Bachelors Degree
Use this space to provide information about the opportunities your institution provides for students to earn college credits while in high school, or to earn credit for prior learning such as previous college, work, and/or military experiences.	Use this space to identify concurrent education within this pathway that stack toward the first post- secondary credential. <i>For each, list:</i> • Name of course or program • Duration • Concurrent or Pre-requisite	Use this space to identify additional certificates and/or a diploma that stacks toward the degree. <b>For each, list:</b> • Name of certificate/diploma • # of college credits • Potential job and median income • Aligned industry certification(s)	Use this space to describe the remaining credits in the pathway sequence needed to earn an AS or AAS degree. <b>For the degree, list:</b> • # of college credits • Potential job and median income • Aligned industry certification(s)	Example: Bachelors Degree in at University
Career				
Any additional details about career opportunities aligned to stackable credentials along the pathway				

## Using the Map Template



 Download "Generic Template" from the Workshop Toolbox (PPTX file)

## or

• Use paper template at your table

## Mapping Activity for Secondary Partners

Pick a program offered at your high school

How does it align with your postsecondary partner institution?

What is the next step a student can take after the first postsecondary credential in that career field?

Look up the program for the next step what is the name of the program and where is it offered?

Where can you find reliable wage and occupation info?

Mapping Activity for Adult Educators

Pick a program offered at your organization

How does it align with your postsecondary partner institution?

Can students concurrently take your program and post-secondary courses?

What is the next step a student can take after the first postsecondary credential in that career field?

Where can you find reliable wage and occupation info?

Mapping Activity for Post-Secondary Partners

Pick a program offered at your college.

Are dual enrollment and/or concurrent enrollment opportunities for students?

What is the next step a student can take after the first postsecondary credential in the career field?

Do the first credential and all subsequent credentials stack up the next credential?

Where can you find reliable wage and occupation info?

## **Pathway Planner**

RD and a start of the start of		
Career Pathway Instructions		Create Path
Welcome To The Career Pathway Mapping Tool.	opulate a template which will show the pathway map for your program.	Learn More
Image: constraint of the constraint o	Highest Level Credential Please provide information about the highest level of degree, certificate, or any other credential. View instructions	

Interested in learning more? Contact Debbie Davidson at <u>ddavidson@cord.org</u>.



<

### Accounting

High School

Accounting Spreadsheet

Apps Accounting

Principles Payroll

Accounting Accounting

Software Apps Computers for Professionals Link: gtc.edu/highschool. CORD Leading Change in Education

Download PDF

#### www.gtc.edu/accounting

Certificate

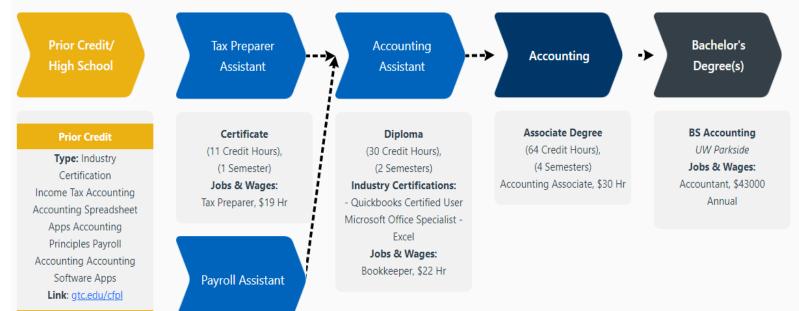
(15 Credit Hours),

(1 Semester)

Jobs & Wages:

Payroll Assistant, \$23 Hr

Students are prepared to enter their career field at any point along the pathway and advance as they complete higher-level credentials.



## **How Will We Get There?**

Consider the gaps moving from one credential or institution to the next:

- What needs to be done to address the gap?
- Is it a barrier related to process or policy?
- Who needs to be at the table to discuss the gap?
- What are the opportunities that haven't been mapped yet?



# Action Planning



#### Local Action Plan

Goal, Objective, Priority:	Action Steps:	Lead:	Intended Results:	Timeline:	Notes:	
What do we want to achieve?	How will we achieve it?	Who is	Measurable	By when?		
		responsible?	outcomes?	_		
Partnerships						
Gaps and Opportunities	1		-	•		
Employer Engagement		•	1	1		
Gaps and Opportunities						
Stackable Credentials/Career Pathways Program Design						
Gaps and Opportunities						
Supporting Completion						
Gaps and Opportunities						

Advancing Credentials

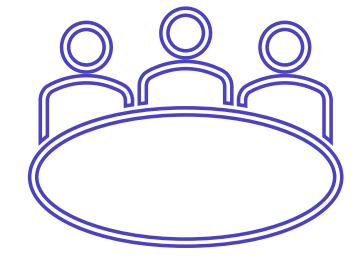
CORD.org

 ✓ Use Action Plan Template at your table

or

 ✓ Download Action Plan Template from Workshop Toolbox

# Share and Discuss



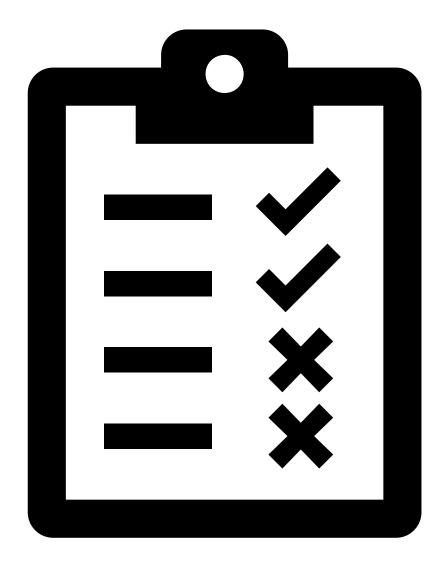




RA REER PRAY

# Self Check #4

## Supporting Student Completion

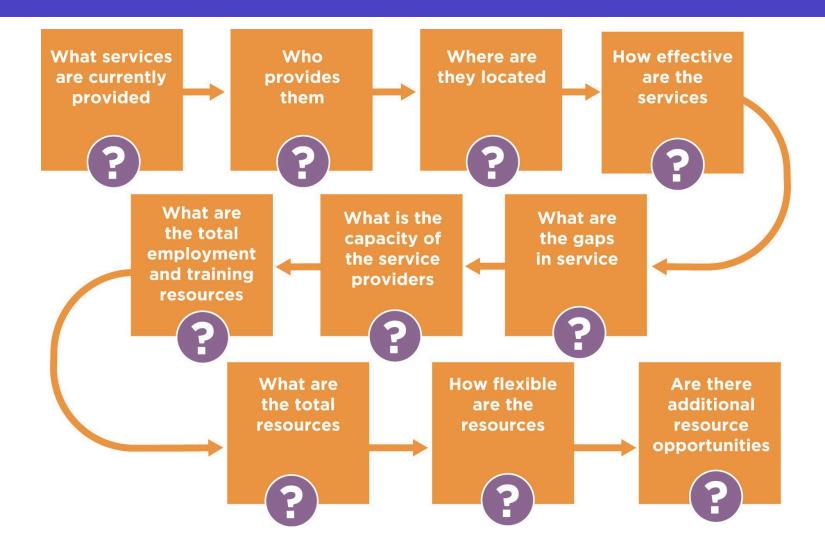


## Types of Holistic Support

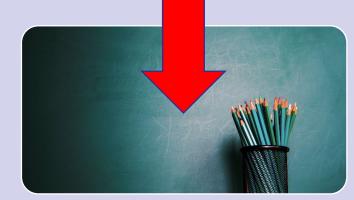
- Academic help learners successfully complete the program and transition to a job or postsecondary education.
- Financial address barriers such as tuition, textbooks and materials that may impact learner ability to afford the training
- **Personal** focus on individual needs such as mental and physical health, childcare, and transportation.



# **Holistic Support Journey**



## **Examples of Holistic Services**







#### Academic

Aligned to local needs Industry credentials Credit for Prior learning (CPL) Flexible class offerings Tutoring Cohort Learning

#### Financial

Grants (Pell) Scholarships Book/Materials Industry Certification fees Basic needs assistance

#### Personal

Student-centered success coaching Childcare Transportation Mental Health services

## **Aligned to local needs**

- Associate Accelerated Program (ASAP) helps qualified high school graduates earn a two-year associate degree in just 11 months
- Flexible, fast-track program for **working** adults. Earn a certificate in two semesters (one year) or an associate degree in four semesters (two years).
- The IT Academy allows students to rapidly get in-demand IT training and skills and earn accelerated <u>non-</u> <u>credit</u> certificates of completion through the Academy's regular classes and intense summer boot camps-some as quick as a few days or weeks.



Ivy Tech Community College

## **Indiana Industry Certification**

- Statewide community college system with over 40 locations in Indiana
- Developed a certification crosswalk lists amount of credit awarded for industry-based certifications
- Crosswalk includes over 100 industry-recognized certifications
  - Aligned to credit for students wishing to pursue degree programs
  - Incorporate a stackable credential model that starts with 18credit hour certificates that stack into 30-hr technical certificates and then into the Associate's degree



## Ivy Tech Industry Certification Crosswalk

ADVANCED MANUFACTURING	
Society of Manufacturing Engineers - Certified Manufacturing Technologist	ADMF 115 Materials and Processes for Manufacturing
MSSC (Manufacturing Skills Standards Council) Production Technician Certification	ADMF 101 Key Principles of Advanced Manufacturing AND ADMF 102 Technology in Advanced Manufacturing
MSSC (Manufacturing Skills Standards Council) Safety and Quality Practices & Measurement	ADMF 101 Key Principles of Advanced Manufacturing
MSSC (Manufacturing Skills Standards Council) Manufacturing Processes & Production and Maintenance Awareness	ADMF 102 Technology in Advanced Manufacturing
Fanuc HandlingPro and Programming or NOCTI Certification (FCR-01)	ADMF 116 Automation and Robotics I & ADMF 206 ADMF Automation and Robotics II
Motoman Basic, Accelerated, or Advanced Robotic Programming (Yaskawa)	ADMF 117 Motoman Robotic Programming
NIMS Duty Area 1 - Maintenance Operations	ADMF 102 Technology in Advanced Manufacturing
NIMS Duty Area 2 - Basic Mechanical Systems	INDT 203 Machine Maintenance and Installation
NIMS Duty Area 3 - Basic Hydraulic Systems	INDT 104 Fluid Power Basics
NIMS Duty Area 4 - Basic Pneumatic Systems	ADMF 222 Mechatronics Pressurized Systems

# **Credit for Prior Learning**



Credit for prior learning, or CPL, is a term for various methods that colleges, universities, and other education or training providers use to evaluate learning that has occurred outside of the traditional academic environment. It's also sometimes called prior learning assessment (PLA).



It is used to grant college credit, certification, or advanced standing toward further education or training. Other common terms for this process include prior learning assessment (PLA), recognition of prior learning, and recognition of learning.

Source: Council for Adult and Experiential Learning (CAEL)



## Types of Credit for Prior Learning

- Registered Apprenticeships
- Industry Certifications and Licensures
- High School to Community College Articulation Agreement
- Military Education and Training
- Standardized Examinations
- Challenge Examinations/Proficiency
- Portfolio Assessment
- Internal Articulation of Non-credit to Credit

# **Benefits of Credit for Prior Learning**

STUDENT PERSPECTIVE	INSTITUTIONAL PERSPECTIVE	EMPLOYER PERSPECTIVE
<ul> <li>Accelerates Completion</li> </ul>	<ul><li>Attracts New Students</li><li>Increased Enrollments</li></ul>	<ul> <li>Clarifies Pathway</li> </ul>
<ul> <li>Reduces Duplication of Learning</li> </ul>	<ul> <li>Promotes Retention and Higher Persistence Levels with CPL Students</li> </ul>	<ul> <li>Recognized Industry Credentials</li> </ul>
<ul> <li>Lowers Education Costs</li> </ul>	<ul> <li>Results in More Institutional Credits</li> </ul>	<ul> <li>Reduces Employee Time to Degree</li> </ul>
<ul> <li>Reduces Student Debt</li> </ul>	<ul> <li>Strengthens Employer Partnerships</li> </ul>	<ul> <li>Lowers Investment of Business and Higher ROI</li> </ul>
<ul> <li>Increases Likelihood of Graduation</li> </ul>	<ul> <li>Enhances the Ability to Stay Competitive with Higher Education Institutions</li> </ul>	

**Source:** Credit for Prior Learning Guide: A Practical Guide for Community Colleges

# **CPL Promising Practices/Key Takeaways**

#### Organizational Culture & Faculty Development

- Assess organizational culture & faculty
- Single point of contact at institution or group of champions
- Ongoing professional development for faculty and administrators
- Administration and Faculty support of noncredit to credit integration

#### **Student-Friendly Policies**

- Application of credits to degree/major requirements
- Number of credits a student can earn/residency requirements
- Credits appear on the student transcript
- No fees charged to students

Source: <u>CPL\_Implementation\_Guide.pdf (southcentral.edu)</u>

# **CPL Promising Practices/Key Takeaways**

#### **Create CPL Crosswalks**

- Related industry recognized certifications
- Continuing education/workforce development courses
- Standardized crosswalk tool

#### **Marketing & Awareness**

- Create web portal–list all PLA opportunities in one place
- Create program-specific career pathway maps that illustrate CPL options
- Support student success with trained student and faculty advisors to guide students

### ACTIVITY

### Non-credit to Credit Integration Worksheet



## **Examples of Holistic Services**







#### Academic

Aligned to local needs Industry credentials Credit for Prior learning (CPL) Flexible class offerings Tutoring Cohort Learning

#### Financial

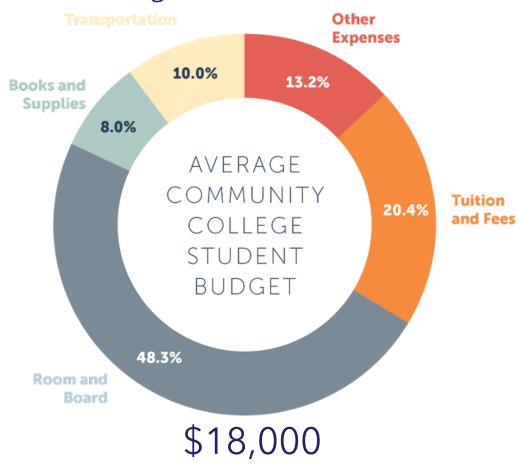
Grants (Pell) Scholarships Book/Materials Industry Certification fees Basic needs assistance

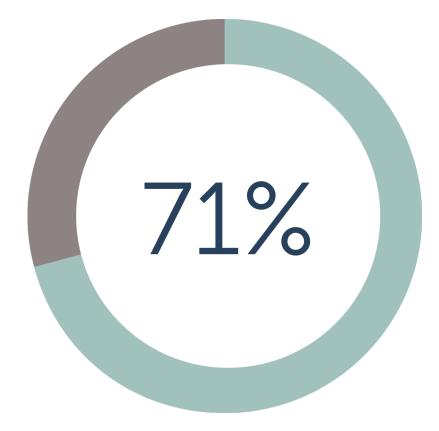
#### Personal

Student-centered success coaching Childcare Transportation Mental Health services

## **Unmet Need**

## Average total budget for a community college student in 2019





public year students with unmet financial need <sup>1</sup>

# **Basic Needs Insecurity**

#REALCOLLEGE Survey	2-year Colleges (2020)	4-year Colleges (2020)
Food Insecurity	39%	29%
Housing Insecurity	52%	43%
Homelessness	14%	14%

**61%** of community college students reported some basic needs insecurity in the last year.

(Temple University's HOPE Center)

THE HOPE CENTER SURVEY 2021: BASIC NEEDS INSECURITY DURING THE ONGOING PANDEMIC

# **Basic Needs Insecurity**

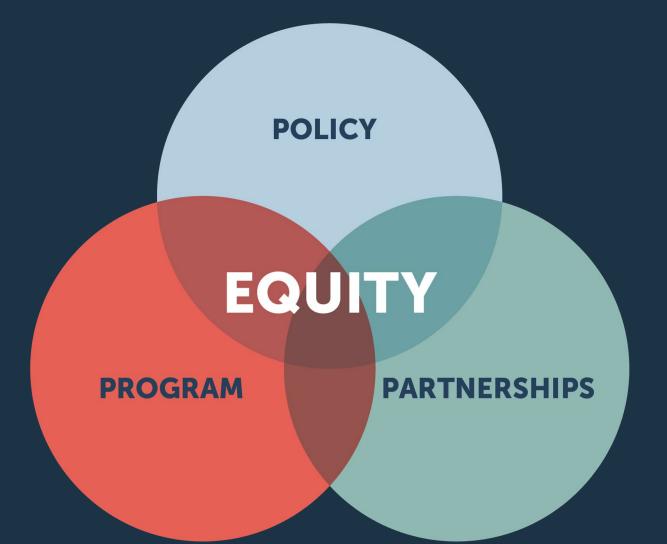
#REALCOLLEGE Survey	Portland Community College (2019)	Oregon's Community Colleges (2019)
Food Insecurity	41%	41%
Housing Insecurity	53%	52%
Homelessness	19%	52%

**63%** of community college students reported some basic needs insecurity in the last year.

(Temple University's HOPE Center)

The Hope Center: #RealCollege 2020: Five Years of Evidence on Campus Basic Needs Insecurity and Oregon Community Colleges #RealCollege Survey

# **Transforming Systems**



Transforming policies, programs, and partnerships to close opportunity gaps and increase economic mobility is essential for racial equity, economic mobility, and an inclusive recovery.



Taskforce on Higher Education and Opportunity



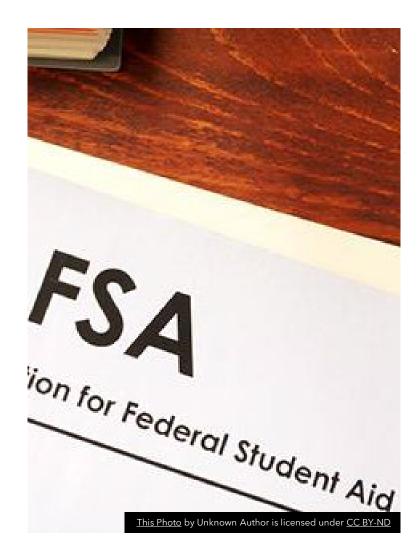
## **PCC Career Pathways**



# **Access to Benefits**

UNEMPLOYMENT INSURANCE		VETERANS BENEFITS	CHILD TAX CREDIT	
SNAP FOOD STAMPS AMERICAN OPPORTUNITY TAX CREDIT		EARNED	TRADE ACT	SSI
		INCOME TAX CREDIT	SNAP 50/50 STUDENT	
CHILD CARE SUBSIDIES		HOUSING VOUCHERS	SUPPORT SERVICES BENEFIT ACCESS = COLLEGE ACCESS	
		VETERANS BENEFITS		
SOCIAL SECURITY		WIC		

#### **State-level Financial Support**



- Nearly 30 states offer tuition-free associate degrees, but the fine print varies widely.
- Eligibility considerations include residency, income, age, even field of study.
- All programs require applicants to complete the <u>Free</u> <u>Application for Federal Student Aid</u> (FAFSA).
- Most provide "last-dollar" grants, which pay remaining college fees after other aid is applied.
- Others are "first-dollar" grants, providing students with college funds upfront, regardless of what other funding they may be eligible to receive.

Source: Is Community College Free? Yes, in These 31 States, BestColleges, 2022

## **Federal Financial Support**

#### Pell Grant

- Must have already received a high school diploma or (G.E.D.) certificate
- Capped at \$6,895 per year
- Cannot be used for more than 12 full-time or equivalent terms over an individual's lifetime

#### Ability to Benefit

- Available to adult education students without a high school diploma or equivalent
- Students must prove their "ability to benefit," such as by <u>passing a test</u>





# State-level Financial Support

 <u>Is Community College Free? Yes, in</u> <u>These 31 States | BestColleges</u>





# Make college more affordable

## **Strategies at RCCC**

- Map coursework to industry recognized professional certifications.
- Update course content where needed to better address student learning outcomes from those professional certifications.
- Formalize a process for paying for/funding certifications.
- Use Credit by Professional Certification in NC to award credit when possible.
- Have multiple entry and exit points for students interested in Information Technology



## **Test Fest at RCCC**

To increase student participation in certification testing, RCCC organized an Annual Event called "Test Fest"

- Faculty Proctor exams for 1 day each year.
- Tests are provided free of charge for students.
- Students can take as many exams as they like in the 8-hour period.
- Credit by Professional Certification is awarded as appropriate.

#### Test Fest Certification Exams

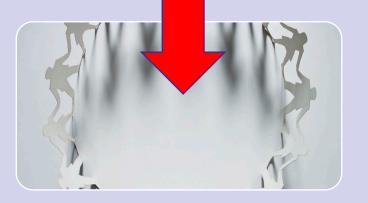
#### Rowan-Cabarrus Community College

Course	Exam Type	Exam Name		
CIS-110	IC3	IC3 Exam (Global Standard 5)		
CIS-115	MTA	Introduction to Programming Using Python - Exam 98-381		
CSC-139	MTA	Software Development Fundamentals (VB Version)- Exam 98-361		
CSC-151	MTA	Introduction to Programming Using Java - Exam 98-388		
CSC-153	MTA	Software Development Fundamentals (C# Version) - Exam 98-361		
CTI-120	MTA	Networking Fundamentals - Exam 98-366 AND Security Fundamentals - Exam 98-367		
CTS-130	MOS	Microsoft Office Specialist – Excel Core		
CTS-230	MOS	Microsoft Office Specialist – Excel Expert		
DBA-110	MOS	Microsoft Office Specialist - Access		
DBA-120	MTA	Database Administration Fundamentals - Exam 98-364		
NOS-130	MTA	Windows Operating System Fundamentals- Exam 98-349		
NOS-230	MTA	Windows Server Administration Fundamentals - Exam 98-365		
OST-136	MOS	Microsoft Office Specialist – Word Core		
OST-236	MOS	Microsoft Office Specialist – Word Expert		
WEB-110	MTA	Introduction to Programming Using HTML and CSS - Exam 98-383		

## **Examples of Holistic Services**







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#### Financial

Grants (Pell) Scholarships Book/Materials Industry Certification fees Basic needs assistance

#### Personal

- Student-centered success coaching
- Mental Health services
- Childcare
- Transportation
- Employment assistance

Adult Learner Centered & Equity Framework (ALCEF) ALCEF led by Council for Adult and Experiential Learning (CAEL) and funded with Federal funds from the U.S. Department of Agriculture.



Three-year initiative to increase access to education and training opportunities that improve SNAP program efficiency

Build and foster holistic collaboration among community colleges, workforce development boards, employers, workforce and human service providers, and other components

Partners:

- Seattle Jobs Initiative
- Grant Associates
- <u>American Public Human Services Association</u> (APSHA)



## Monroe Community College

- <u>Monroe Community College Schools@MCC</u>
- <u>Guided Pathways at Monroe Community College</u> <u>Guided Pathways (monroecc.edu)</u>
- The model:
  - connects students to an academic home and the people who will support their personal success at the College.
  - provides distinct community of inspiring faculty, helpful staff, and like-minded students connected through similar academic interests and professional aspirations

Colorado Health Care Careers Academy

- **Open Access:** Free to anyone who is 16 or older and interested in healthcare
- Academic: Curriculum includes post-secondary certification pathways focused on some of the fastest-growing health occupations in Colorado
- **Career:** Students who complete the academy gain support from navigators to get hired into entry-level positions with healthcare partners and navigating higher education
- **Financial:** Eligible students can participate free of charge students who complete the academies receive \$500 deposited into their College Invest account.
- **Personal:** Students gain knowledge on health career opportunities, become self-aware of their aptitudes and interests, and obtain direct experience in the industry through virtual and in-person formats



Colorado Health Careers Collaborative (CHCC) | Arapahoe Community College

## **CHCC Partnerships: A Key Component**

- ► A/D Works!
- Arrupe Jesuit High School
- Aurora Public Schools
- Boys & Girls Club Metro Denver
- Cherry Creek School District
- Colorado Early Colleges Aurora
- Colorado Early Colleges Douglas County
- Denver Public Schools
- Douglas County School District
- DPS Family and Community Engagement

- Emily Griffith Technical College
- Englewood School District
- Elbert School District
- Elizabeth School District
- Jefferson County Public Schools
- Kiowa School District
- Littleton School District
- Sheridan School District No. 2
- STEM School Highlands Ranch
- Zero Dropouts

#### AND some of the largest health employers in Colorado

- Centura Health
- DaVita
- HealthONE
- Kaiser Permanente



## POSTER ACTIVITY

## Holistic Supports Inventory



# Action Planning



#### Local Action Plan

Goal, Objective, Priority:	Action Steps:	Lead:	Intended Results:	Timeline:	Notes:		
What do we want to achieve?	How will we achieve it?	Who is	Measurable	By when?			
		responsible?	outcomes?				
Partnerships							
Gaps and Opportunities	1			-			
Employer Engagement	•	•			1		
Gaps and Opportunities							
Stackable Credentials/Car	Stackable Credentials/Career Pathways Program Design						
Gaps and Opportunities							
Supporting Completion							
Gaps and Opportunities							

Advancing Credentials

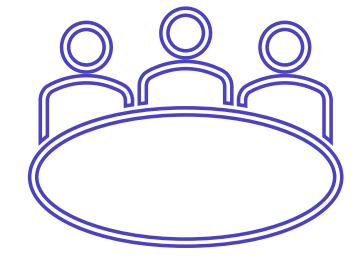
CORD.org

Use Action Plan
 Template at your
 table

#### or

Download Action
 Plan Template
 from Workshop
 Toolbox

# Share and Discuss





# **Refocus Our Perspective**

Industry Informed
Viewed through Student Lens



### Thank you for spending these two days with us!

## Please let us know how we did!

https://www.surveymonkey.com/r/CPLI\_Vegas2024

#### **Facilitators:**

Claudia Maness, NCPN Director cdmaness@cord.org

Jeffery Arnott, Consultant jeff@lot12education.com

