



NJ PATHWAYS

TO CAREER OPPORTUNITIES

Aligning Education to Build an Innovative Workforce

Welcome.

We ask that you please take this time to mute yourself, thank you.

In the chat, please provide your name, title and organization.

March

Technology & Innovation Collaborative Meeting

Theme: Industry Recognized Credentials and Stackable Pathways

NJ Pathways to Career Opportunities

New Jersey's Community Colleges and the New Jersey Business and Industry Association have joined together to launch an unprecedented education and training pathways initiative.



AARON FICHTNER

President, New Jersey Council of
County Colleges



MICHELE SIEKERKA, ESQ.

President & CEO, New Jersey Business
and Industry Administration

PARTNERSHIP



NJ PATHWAYS
TO CAREER OPPORTUNITIES
Aligning Education to Build an Innovative Workforce

Please use the hashtag:

#NJPathways

To share your participation in the
NJ Pathways to Career Opportunities
Industry Collaborative Meetings



**NJ PATHWAYS
TO CAREER OPPORTUNITIES**
Aligning Education to Build an Innovative Workforce



New Jersey's
Community Colleges



New Jersey Business
& Industry Association

TODAY'S AGENDA:

- **Importance of Industry-Valued Credentials When Designing Pathways**
 - [Michelle Van Noy, Ph.D](#) - Director and Associate Research Professor, Education and Employment Research Center (Rutgers University School of Management and Labor Relations)
 - [Jennifer Freeman](#) - Sr. Director (Jobs for the Future)
- **Importance of Industry-Valued Credentials According to Industry**
 - [Rebecca Chisolm](#) - Sr. Leader Network Academy - North America (Cisco)
- **Innovative Pathways Partnership**
 - **Cisco Dream Team: Collaborating for Student Success**
 - [Anna Payanzo Cotton](#) - VP, Workforce Development (RCBC)
 - [Paul Warner](#) - Instructor, Information Technology (RCBC)
 - [Pastor Keith Davis](#) - Director (Camden Dream Center Technology Training School, Cisco Networking Academy Support Center)
- **Insights on Current Industry Trends from the Industry Leadership Team**
 - [Veda Shamsid-Deen, Esq.](#) - Director, Technology and Innovation Strategy and Workforce Partnerships (New Jersey Community College Consortium for Workforce & Economic Development)
- **Comprehensive Cross-Education Sectors Pathways Model**
 - [Catherine Frugé Starghill, Esq.](#) - Sr. Director, Strategy and Partnerships (New Jersey Community College Consortium for Workforce & Economic Development)

THE IMPORTANCE OF INDUSTRY-VALUED CREDENTIALS WHEN DESIGNING PATHWAYS



MICHELLE VAN NOY

Director, Education and Employment Research Center at the School of Management and Labor Relations at Rutgers, the State University of New Jersey



JENNIFER FREEMAN

Senior Director, Jobs for the Future

PANEL



SPEAKER

The Importance of Industry-Valued Credentials for Technology and Innovation

REBECCA CHISOLM

Sr. Leader Network Academy North America, Cisco
Corporate Social Responsibility





The bridge to possible

Cybersecurity Certification Summary

Rebecca Chisolm

Networking Academy

March 2022

Certification: IT Specialist Cybersecurity



**Entry-Level
Cybersecurity
Certification**

- ✓ Vendor neutral
- ✓ Issued by Certiport
- ✓ Available globally – [link](#)
- ✓ Remote proctored (available online)
- ✓ [Exam Objectives](#)



Cybersecurity Pathway: Badges



Course Badges



Pathway Badge



Certification Badge

New

Existing courses

Hybrid Learning – Creating a pipeline from SFA to Networking Academy

SFA – Instructor Guided

NetAcad – Instructor Led

Cybersecurity Career Path



Cybersecurity Technician

New!

Endpoint Security

Network Defense

Cyber Threat Management

Introduction to Cybersecurity

Networking Essentials

CyberOps Associate

Cloud Security

Network Security

IOT Security

Talent Bridge



Recommend pre-requisite knowledge



Digital Badge



Certification



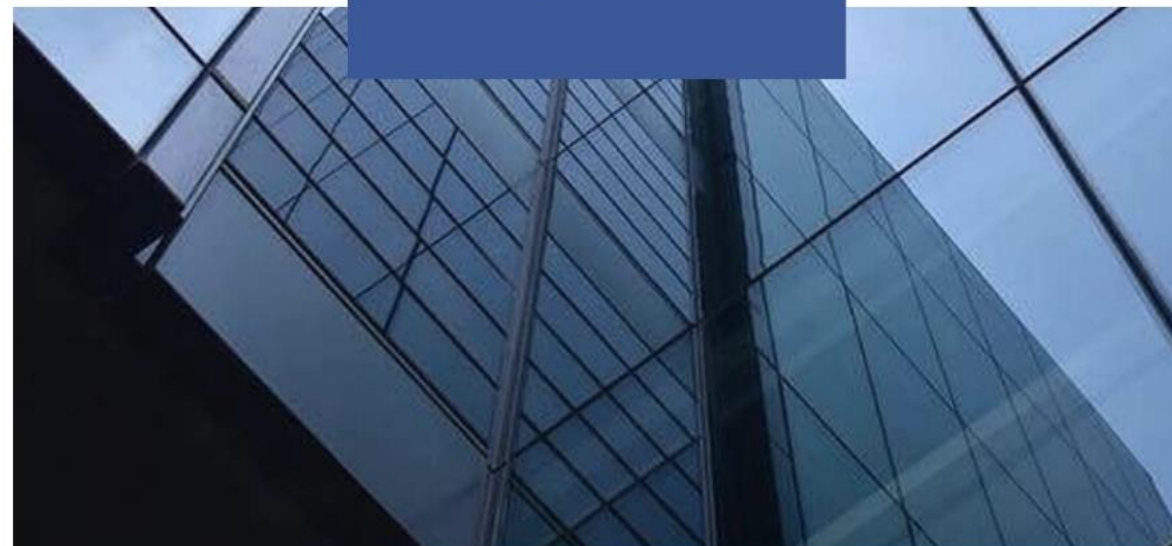
Job Preparedness

Innovative Pathways Partnership of Collaborative Partners

Cisco Dream Team:
Collaborating for
Student Success



PRESENTATION



Cisco Dream Team

Collaborating for Student Success



rcbc.edu/workforce

Presented by:

Anna Payanzo Cotton, Vice President, Workforce Development, RCBC

Paul Warner, Instructor, Information Technology, RCBC

Pastor Keith Davis, Director

Camden Dream Center Technology Training School
Cisco Networking Academy Support Center

Mission: Create a cybersecurity program

- Collaborate with the right partner
- Development of the Program
- Alignment across the institution
- Involve business & community partners
- Keep the end in mind:
 - Make it accessible, in-person & online
 - Affordable and easy for students
 - Industry recognized credential



rcbc.edu/workforce



What Developed

The Impact

- 4 Modules
- 22 separate course offerings
- 246 students enrolled
- 77 students certified
- 3 Certified Cisco Academy Instructors
- Cybersecurity Training Hub
 - Certified Cisco Training provider
 - CompTIA Authorized Academic Partner
 - CompTIA exam vouchers are available for credit students, at a discounted rate
 - Pearson Vue Testing Center

Placement of students in IT positions: 105

Retraining employees for:

- Miles Technology
- Green Digital
- PCS
- Amazon



Camden Dream Center Technology Training School



Cisco Networking Academy Support Center
US DoL Registered Apprenticeship Program
for:

- Networking Technician (Alt. Title: Network Engineer)
- Cybersecurity Support Technician
- IT Help Desk Support Technician



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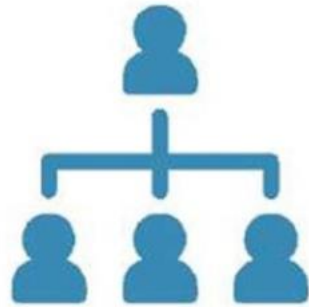


U.S. DOL Registered Apprenticeship Success

Five Core Components of Registered Apprenticeship



Employer involvement



Structured on-the-job learning



Related instruction



Rewards for skill gains



National Occupational Credential

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Questions?

Anna Payanzo Cotton, Vice President, Workforce Development, RCBC,
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Paul Warner, Coordinator, Information Technology, RCBC,
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Pastor Keith Davis, Director, Camden Dream Center Technology Training School
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Insights on Current Industry Trends from the Industry Leadership Team

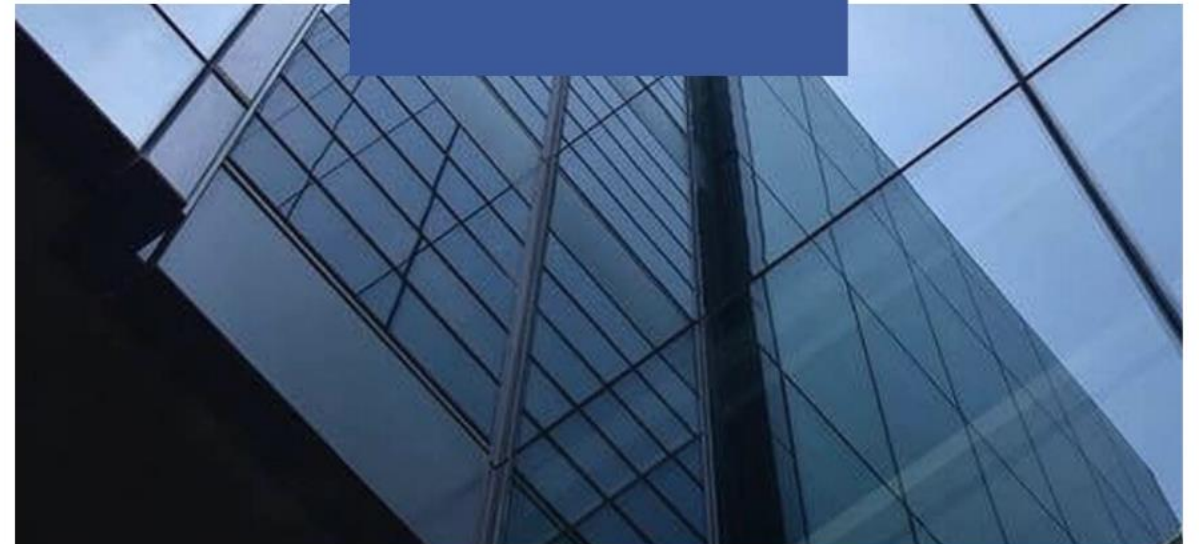


VEDA SHAMSID-DEEN, ESQ.

Director for Technology and Innovation
Strategy and Workforce Partnerships



PRESENTATION





NJ PATHWAYS

Aligning Education to Build an Innovative Workforce

NJ CC | New Jersey's
Community Colleges

NJBIA
New Jersey Business
Innovation Alliance

Industry Leadership Team Quarterly Meetings

March 15 – 18, 2022

Health Services

AmeriHealth
Bergen New Bridge
Community Options
Cooper University
Hackensack Meridian
Healthcare Assoc
Summit Health
Horizon BCBS
Preferred Behavioral
Visiting Nurse Assoc

Infrastructure & Energy

American Water
Atlantic City Energy
IBEW 102
Naik Consulting
NJ Infrastructure Bank
NJ Resource
Operating Engineers
Orsted
T&M Assoc
United Airlines
Verizon

Technology & Innovation

Amazon
AT&T
BluLabs
Cisco
Cognizant
MarketSmith
Microsoft
Nitto
One-Huddle
Soligeniz

Manufacturing & Supply Chain

Accurate Box Co.
Amazon
FedEx
NJMEP
Sanofi
Unex Manufacturing
Union Ware

TECHNOLOGY & INNOVATION IN NEW JERSEY



TRENDS

- Robust **job growth** projected in the **Professional and Technical Services** subsector.
- **Data analytics, artificial intelligence, and other new technologies** are being rapidly adopted by other industries.
- **Automation, machine learning, and quantum computing** are broadening the demand for technology workers.

OPPORTUNITIES

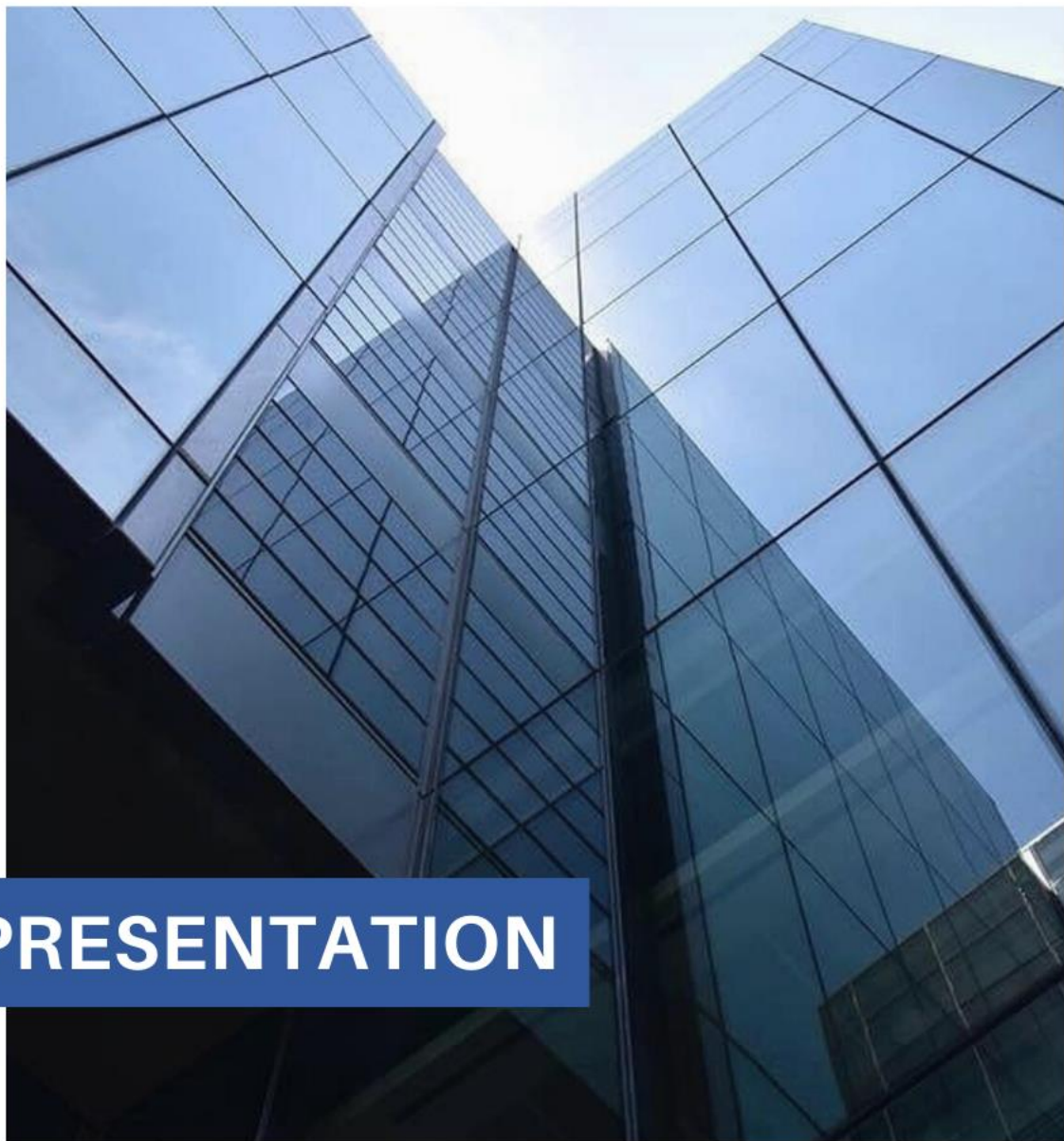
- ☀ Many occupations in the sector can be worked remotely, allowing for businesses to connect and utilize a **global workforce**.
- ☀ Increased demand for **cybersecurity technologies** and services will drive additional growth in the industry.
- ☀ Young workers and students increasingly view **computer and coding skills** as more important than other areas.

CHALLENGES

- x New Jersey's technology sector lacks **gender and racial diversity**.
- x Stimulating **early interest in math and science**, particularly among middle- and early high-schoolers.
- x Constantly changing software and technologies challenge workers to maintain **current, relevant credentials**.

SKILLS/CREDENTIALS

- ± Ongoing training in **diversity, equity, and inclusion** to address a diversifying workforce and state population.
- ± **Math and science** skills in addition to computer programming and software specific credentials.
- ± Increasing importance of **essential skills** (flexibility, problem solving, critical thinking, adaptability, etc.).



PRESENTATION

What Does a Comprehensive Cross-Education Sector Pathway Look Like

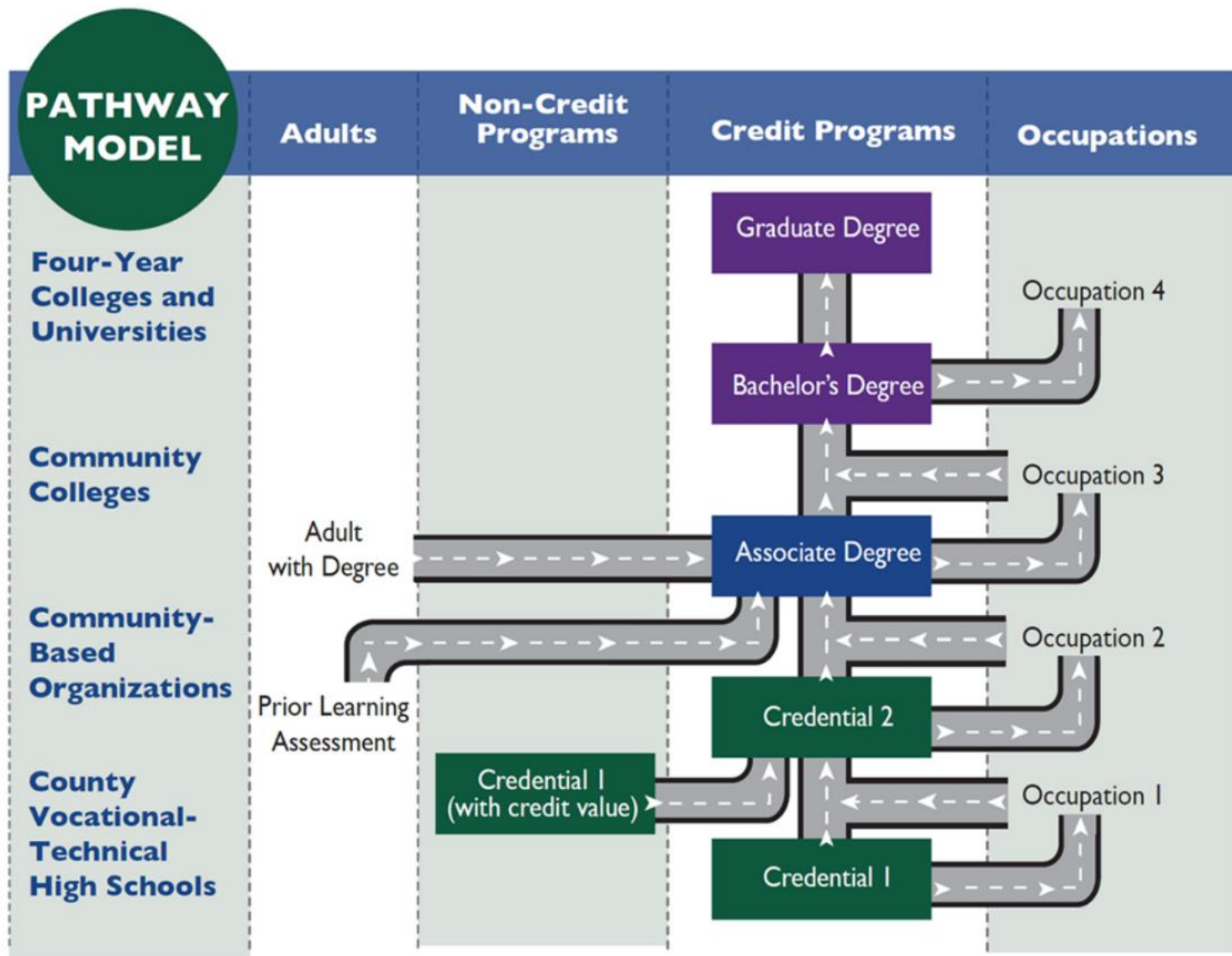


**CATHERINE FRUGÉ
STARGHILL, ESQ.**

Senior Director, Strategy and Partnerships

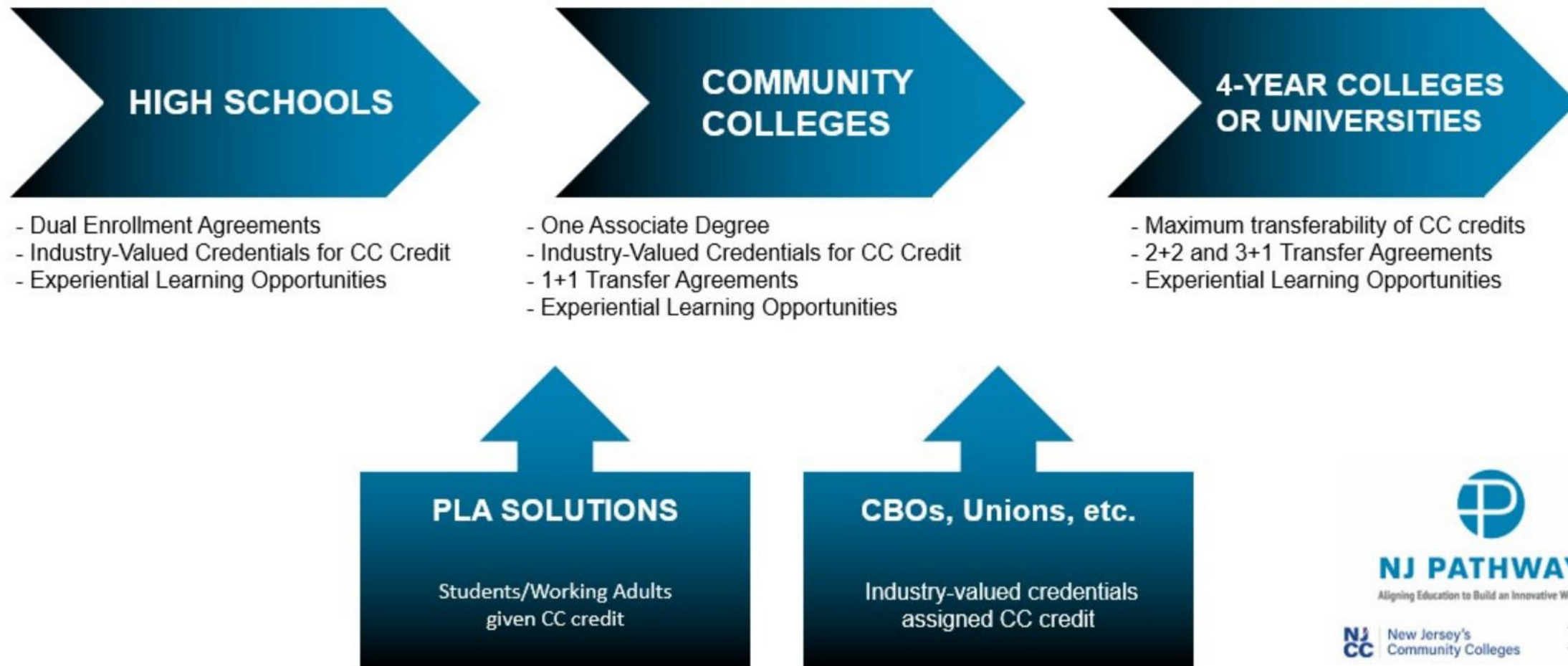


Key Components of a Career Pathway



COMPREHENSIVE CROSS EDUCATION SECTOR PATHWAY MODEL

(One Associate Degree Model)



Closing Remarks

Thank you for Partnering with NJ's Community Colleges and NJBIA to Align Education to Build an Innovative Workforce.



VEDA SHAMSID-DEEN, ESQ.

Director for Technology and Innovation Strategy and Workforce Partnerships



CATHERINE FRUGÉ STARGHILL, ESQ.

Senior Director, Strategy and Partnerships

NJ PATHWAYS



Contact NJ Pathways

Get Involved



**GET
INVOLVED**



STAY UP TO DATE AT NJPATHWAYS.ORG

Get involved in NJ Pathways to Career Opportunities at NJPathways.org. Become a partner to receive updates, meeting invitations, and other materials.

Stay Connected

Never miss an update when you follow us on our social media platforms



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**STAY INVOLVED:
UPCOMING INDUSTRY
COLLABORATIVE
MEETING DATES IN
APRIL 2022**



**MANUFACTURING & SUPPLY CHAIN
MANAGEMENT COLLABORATIVE**

Wednesday, April 6, 2022
10:00 AM to 11:30 AM



**TECHNOLOGY & INNOVATION
COLLABORATIVE**

Wednesday, April 13, 2022
10:00 AM to 11:30 AM



**HEALTH SERVICES
COLLABORATIVE**

Wednesday, April 20, 2022
10:00 AM to 11:30 AM



**INFRASTRUCTURE & ENERGY
COLLABORATIVE**

Wednesday, April 27, 2022
10:00 AM to 11:30 AM





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